

LÜDECKE

Since 1930. The perfect connection.



MADE IN GERMANY

Catalogue Edition 1.0

This Catalogue presents the complete **LÜDECKE**-assortment without listprices.

Again and again there were price increases in many economic areas since the beginning of the year 2021. Especially the raw material and energy market must be mentioned. As a result multiple adjustments of list prices and raw material surcharges were unavoidable.

Current price lists resp. links for pricelists can be made available via mail. In case of need we will be pleased to prepare an appropriate offer.

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LÜDECKE-Distributor
since 50 years

Stock and agency

Partner
for armatures
since 1958

Postal address

Im Kirschenfeld 6
61440 Oberursel/Ts.

For personal contact see page 11

It is all about good connections



Dear Business Partners,

What defines a perfect connection?

Excellent products, a great variety of services, the promise of a long-lasting cooperation?

Welcome to **LUDECKE**!

We offer high-end coupling technology: top-quality, safe and durable coupling systems for almost any application in industrial connection technology - exclusively „engineered and made in Germany“.

Our broad range is summarized in a well-structured „Catalogue Edition 1.0“ which you are holding in your hands right now.

In almost all areas, our tried and tested portfolio has been extended, optimised and completed by a great number of innovative coupling series. Due to new patents and technologies as well as sophisticated product design, **LUDECKE** fittings can now be used in an even broader range of applications - perfect for opening up new markets.

However, there is even more we offer!

LUDECKE is a full service partner. Apart from professional consulting and training, product tests as well as providing master data and technical documentation, you will receive extensive marketing support. Our know-how facilitates your daily business when it comes to selling coupling series.

As expert for customised products, we help with complex and individual solutions.

This enormous range of services leads to great responsibility. We are aware of this responsibility. As a result, our long-term sustainability plan „Green Company“ is an essential part of **LUDECKE** which is lived and implemented in the entire company every day.

So, you are looking for the whole package?

Then enjoy browsing through our catalogue. We look forward to continue our successful cooperation!

A blue ink signature of Klaus Herdegen.

Klaus Herdegen
Chief Executive Officer (CEO)

A blue ink signature of Andreas Sperl.

Andreas Sperl
Chief Executive Officer (CEO)/ Sales Director

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Green Company:

- Zero Emissions
- 100 % Renewable Energies
- Certificated with ISO 14001

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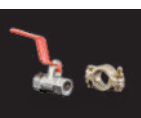
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LÜDECKE

The perfect connection



This is **LÜDECKE**



Engineering Expertise &
Service



Sales Team



This is **LUDECKE**

For more than 90 years, **LUDECKE** has been your competent partner for coupling systems used to connect flexible media-carrying lines to tools, machinery and equipment.

Since 1949, we have been producing fittings for a wide variety of applications and media at our site in Amberg. Our products are sold worldwide via specialist, technical dealers or are utilised as original equipment by leading machine builders (OEM).

We develop and produce sophisticated, innovative and sustainable products according to the highest quality standards. The portfolio comprises a comprehensive standard range as well as individually designed custom-made items.

With our broad product portfolio, long-time experience and diverse range of services, we always guarantee safe and efficient solutions for your daily work.

Milestones

In 1930, engineer Emil Georg Lüdecke developed the claw coupling system for compressed air used worldwide today. This development paved the way for the successful story of **LUDECKE** GmbH.

Today, we manufacture around 30,000 products and are the expert company for all types of coupling systems in the low-pressure range.

- 1930:** E. Georg **LUDECKE** KG is founded in Leipzig
- 1949:** After destruction, new start in Amberg
- 1969:** Construction of a new factory in Amberg
- 1995:** Founding of **LUDECKE** GmbH as operating company
- 1999:** Initial operation of a new fully automatic high rack warehouse
- 2007:** New construction of the administration building including an additional production hall
- 2013:** Extension of the fully automatic high rack warehouse
- 2015:** Start of company extension (production halls, **LUDECKE ACADEMY**)
- 2016:** Initial operation of new production halls
- 2017:** Initial operation of **LUDECKE ACADEMY**



Emil Georg Lüdecke
Founder
(1930 - 1973)



Erwin Bogner
Chief Executive
Officer (CEO)
(1956 - 2015)



Klaus Herdegen
Chief Executive
Officer (CEO)
(since 2000)



Our Philosophy

At our company everything revolves around coupling systems. Technology is our passion and quality is one of our core principles. Choosing **LUDECKE** not only means working together, but entering a lasting relationship with a reliable and experienced partner.

Broad Range of Products

For various applications and media, we offer a comprehensive and extensively broad product range - made of selected materials and tailored to different needs.

If our standard range does not meet your requirements, we will develop an individual solution in cooperation with you.

Experience and Innovation

LUDECKE is the expert for couplings, fittings and accessories.

Our long-lasting experience and extensive expertise enable us to provide high-quality consulting, development and customer service. Through continuous product innovation and optimisation, we guarantee the best solutions possible to our worldwide customers.

In-House Production

Our in-house production makes us stand out!

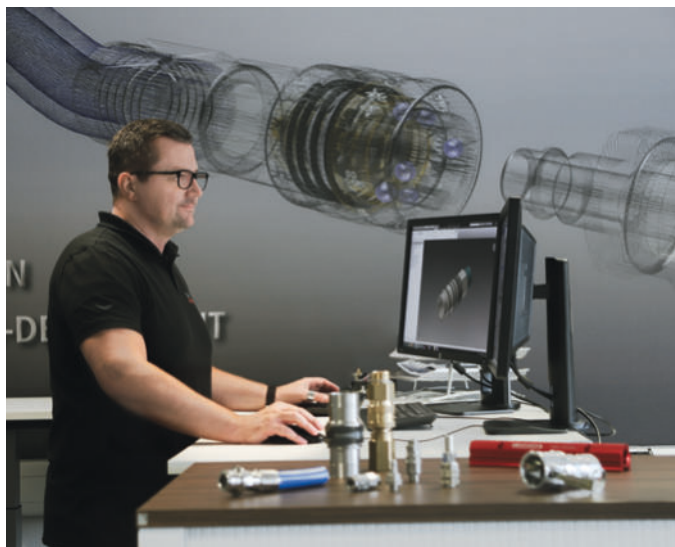
LUDECKE couplings are manufactured in a state-of-the-art process using extremely efficient machinery and equipment. During this process, the products are regularly checked for quality. We only work with certified materials free of harmful substances which we preferably obtain from Germany or Europe. Thanks to our in-house production, we can react quickly and flexibly to different customer requests. Moreover, we ensure high availability of goods and delivery performance.

Responsibility

It is not only about acting sustainably but about taking on responsibility.

We supply our customers with premium and durable products. At the same time, we act responsibly with regards to our employees, partners, the environment and society. It is important to apply this responsibility to all company activities. This ranges from the selection of materials and suppliers, to development and production to sales and logistics as well as to many others.

Engineering Expertise & Service



In cooperation with our sales and technology department, we develop sophisticated coupling systems.

All departments, from engineering and production up to quality assurance, are connected via state-of-the-art software systems. This enables team-oriented collaboration leading to fast, efficient and top-quality product development.

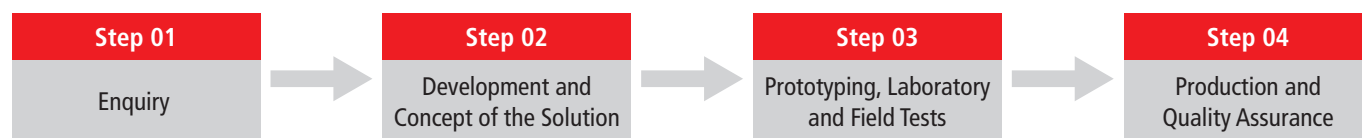
Our series are available in a wide variety of materials, sizes, valve types and technologies to ensure optimum functionality and ease of use, depending on the application. We aim at delivering excellent coupling systems which are functional, durable as well as environmentally friendly.

Furthermore, we support all sales partners with a comprehensive service. This includes individual and qualified advice, marketing support as well as targeted knowledge transfer. In tailored trainings, our sales and technical experts demonstrate how the products are used for different applications. Our aim is to build a perfect team with our customers and to achieve best results at all times.

Individual Solutions

In addition to the extensive standard range, we also manufacture individually designed custom-made items for different applications and media. These range from single products to entire systems to complex assemblies.

Each custom project undergoes a structured and perfectly coordinated development process. In this way, we guarantee a fast, effective and transparent project execution. Despite this predefined process, we value flexibility to changing conditions in our development work.



Learn more about this topic in our brochure "Individual Solutions" as well as on www.ludecke.com/support.



**Partner
for
Armatures
since
1958**

The company was founded in 1958 under the name of AFARO Marianne Leistritz KG at Langen/Hessen.

In 1963 the registered office was transferred to Erzhausen. The legal form of the company was transformed into a GmbH. The founders Reinhold und Marianne Leistritz became the owners.

In 1994 Afaro was taken over by Rainer Leistritz (Meister für Heizungs- und Lüftungsbau, Handelsfachwirt) and Ursula Griebel (Dipl. Kauffrau).

In 2019 the registered office was transferred to Oberursel in Taunus.

Today the company is still owned by members of the family and is managed by the Families Leistritz and Griebel in the second generation.

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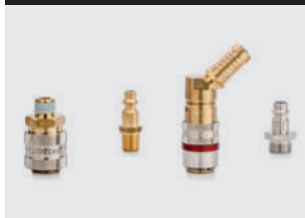


Product Range

MADE IN
GERMANY



Product Range Overview



New Products



Criteria for Product Selection



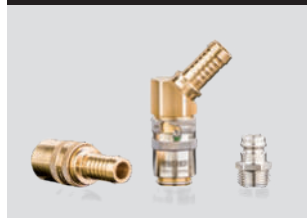
Industries



Pneumatics



Temperature Regulation



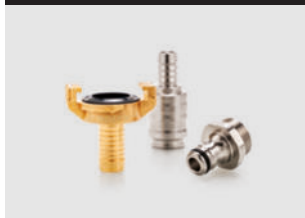
Construction Industry



Processing Industry



Water Application



Accessories



Product Range Overview

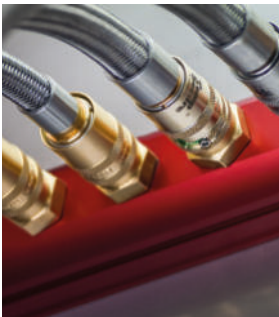
Quality MADE IN GERMANY



Pneumatics

Our versatile and high-quality quick connect coupling systems are perfect for any compressed air application. In addition to standard components, the product portfolio also includes energy-efficient quick connect couplings equipped with various safety mechanisms to ensure reliable and controlled handling in complex applications.

- European and International plug profiles
- Wide range of accessories (MODY spiral hoses, blow-off guns and valves, pneumatic fittings)



Temperature Regulation

We offer the most comprehensive range of coupling systems for temperature regulation in the plastic processing industry. Due to our excellent quality, we guarantee a 100 % reliability when working with moulding units in injection moulding or pressure die-casting.

- European and International plug profiles
- TempSecure by **LUDECKE**®: patented temperature regulation quick connect coupling system with automatic locking mechanism and high temperature resistance



Construction Industry

We manufacture robust, tried and tested coupling systems for outdoor applications in the construction industries. **LUDECKE** construction couplings are particularly sturdy and perfectly adapted to extreme operating and weather conditions.

In addition to classic claw couplings, our product range also includes mortar couplings, complete screwing sets, sandblast couplings and various accessories (ball and throttle valves, hose clamps).



Processing Industry

In our product range for the processing industry, you will find the perfect product for any application requiring specific hygiene standards or for conveying aggressive media. We would like to draw special attention to the dripless quick connect couplings (LiquiSafe by **LUDECKE**®) as well as the cleaning quick connect couplings and screwings.

- Couplings and fittings made of stainless steel 1.4305, 1.4401 and 1.4404
- Quick connect and claw couplings, screwings, chemical and industrial couplings, fittings for snow pump installations



Water Couplings

Whether for professional or private use: We offer coupling systems for water supply in the industry, crafts, gardening, landscaping, agriculture, food industry, for cleaning or supply at industrial work areas or for drinking water applications - compatible with common plug profiles.

- WaterProfi by **LUDECKE**® quick connect or claw couplings
- WaterProfi by **LUDECKE**® spray nozzles and wand nozzles
- Claw couplings for drinking water and strict hygiene requirements

New Products

NEW!

As an innovative company our objective is always to continuously develop and optimize our product portfolio. The aim is to constantly offer a first-class and progressive range.

Here you can find an overview of the most important new products from **LUDECKE**.



General Range Extension

In almost all areas, new variants have been added to the corresponding series. This concerns additional:

- Sizes
- Valve types
- Material types
- Connection types

Pneumatics



Safety Industrial Quick Connect Couplings Series ESIFK DN 7.8

The one-hand quick connect couplings series ESIFK guarantees an optical distinction of different media circulations as well as the absolute avoidance of wrong coupling operations when using different media.

- Coloured anodised knurled aluminium sleeve on the coupling
- Coloured anodised aluminium ring on the plug
- Plug codification (only the same-coloured couplings and plugs can be connected)
- Patented OptiFlow by **LUDECKE**® valve technology

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Safety Self-Venting Couplings Series ESAIS DN 5.5

With the series ESAIS **LUDECKE** offers robust one-hand quick connect couplings which are adapted to the American market (plug profile according ISO 6150 B and US Mil.Spec) and prevent the unintended disconnection of the coupling.

- Uncoupling in two steps by moving the sleeve: connection can only be separated when the residual pressure on the coupling has dropped to a riskless value after having moved the sleeve
- The automatic air-relief function also prevents the risk of a whiplash-effect and reduces the noise during the disconnection
- Patented OptiFlow by **LUDECKE**® valve technology

Page 91



Safety Self-Venting Couplings Series ESOIS DN 5.5

This new one-hand quick connect coupling is compatible with the plug profile ARO 210 as well as ORION 44510 and essentially features the advantages of the series ESAIS DN 5.5.

- Prevents accidental release of the coupling by means of disconnection in two steps (moving the sleeve)
- The automatic air-relief function also prevents a whiplash-effect and reduces the noise during the disconnection
- Patented OptiFlow by **LUDECKE**® valve technology

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Industrial Quick Connect Couplings Series ESSCIG DN 10

The ESSCIG series is widely used especially in the Scandinavian market and is characterised by extremely high flow rates.

- Quick connect coupling with extremely high flow capacity
- Suitable for low vacuum with low coupling force compared to all compatible products
- For the media supply at extraction points with extremely high need of compressed air for high-performance tools as well as in engineering and construction

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Temperature Regulation

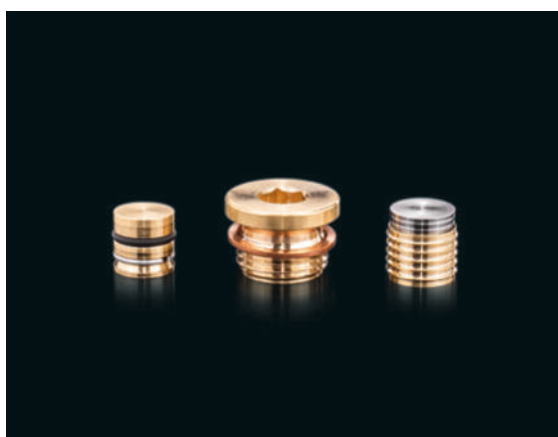


Temperature Regulation Quick Connect Couplings Series ESHGT/ ESHGTE DN 13

The patented TempSecure by **LUDECKE**® temperature regulation quick connect couplings are now also available as a large version with a particularly high flow volume.

- Maximum safety against unintentional disconnection by means of an automatic locking mechanism
- Simple and intuitive coupling procedure thanks to forced guidance design with visual colour coding on the locking sleeve
- Available in brass and stainless steel
- For temperature regulation applications with hot or cold water as well as tempered oil (also available as high-temperature version)

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Sealing Plugs / Locking Screws

The **LUDECKE** temperature regulation program includes an extensive range of accessories, which has been supplemented by the following new products:

- Expanding Mandrel Sealing Plugs
- Locking screw with collar (for female threads)
- Screwable sealing plugs (for male threads)

The sealing plugs and screws are perfect for simple, temporary sealing of holes or tubes as well as for permanent installations. They ensure quick and safe assembly and disassembly.

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Processing Industry



Dripless Quick Connect Couplings Series ESCBN/ ESCBE DN 4/ DN 6/ DN 9

The innovative LiquiSafe by **LUDECKE**® series are dripless one-hand quick connect couplings. I.e. no dripping occurs during uncoupling - only a minimal film of fluid remains on the valve bodies.

- Reduces the risk of media leakage during uncoupling to a minimum
- High safety for man and machine
- Optionally available as a high-temperature version
- Available in brass and stainless steel as well as with knurled sleeve or smooth surface
- For use with liquid media in plant construction, temperature regulation technology, switchboard cooling and much more

Page 270



Quick Connect Couplings for Cleaning Applications Series ESHGTE DN 13

We have fundamentally improved the quick connect couplings of the cleaning program and optimally adapted them to the current hygiene regulations. The couplings of the ESHGTE series now have a patented TempSecure by **LUDECKE**® safety locking mechanism. This prevents unintentional disconnection and can therefore be used when working at high temperatures.

- One-hand quick connect coupling made of stainless steel 1.4305 with safety locking mechanism and forced guidance design
- Hygienically smooth surfaces to avoid dirt pockets
- O-rings specially approved for food and drinking water applications
- For cleaning applications that require a high degree of flexibility (e.g. clear rinsing with water)

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Water Application



Quick Connect Couplings Series WPN DN 9

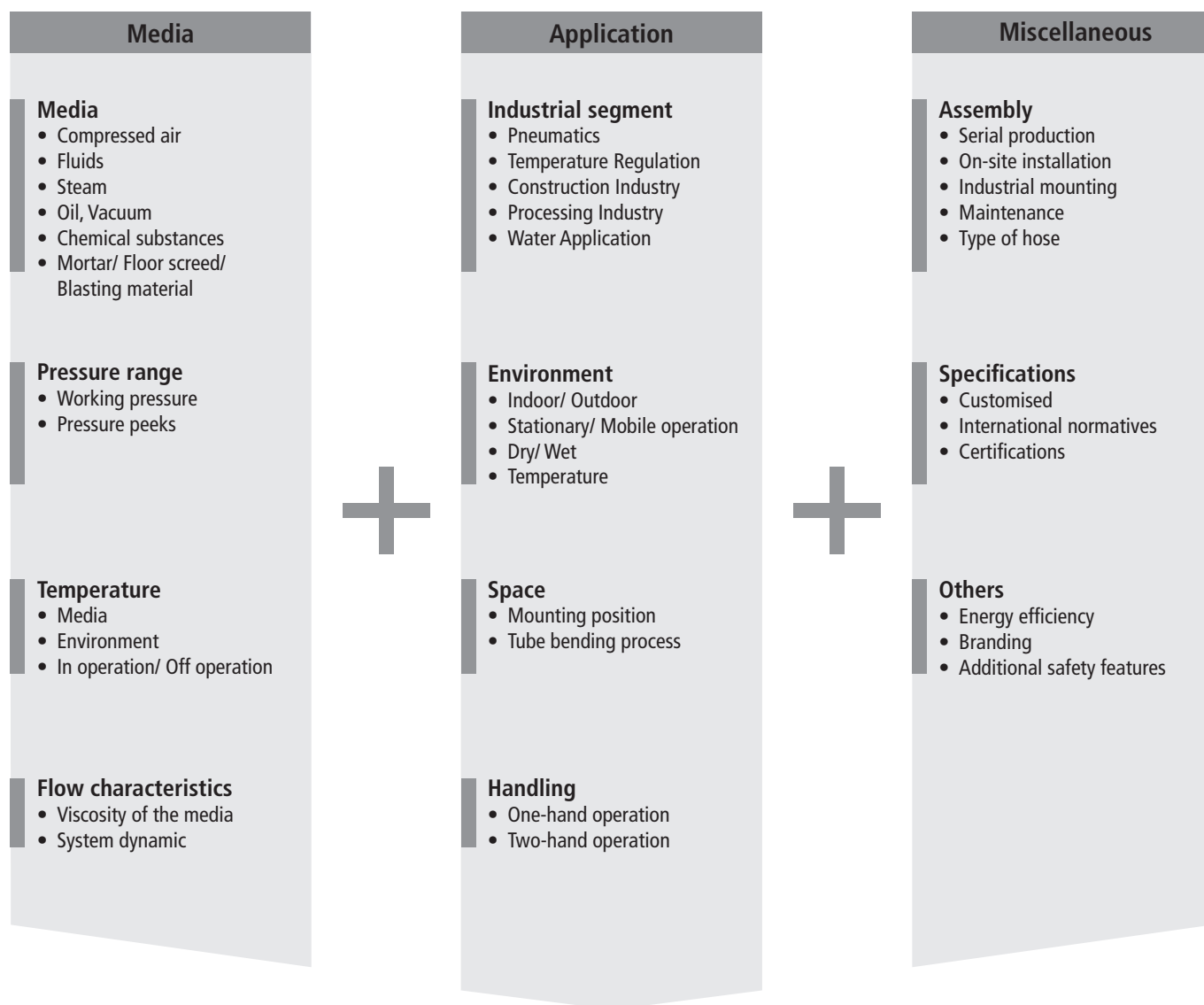
Also, the WaterProfi by **LUDECKE**® quick connect couplings have been completely revised and are now characterised by much easier handling. Thus, the new WPN series replaces the products of the previous WS series.

- Compact and particularly light one-hand quick connect coupling for water pipes in industry, crafts, agriculture, gardening or households
- Easy operation due to ball shut-off
- Smooth surfaces to avoid dirt pockets
- Compatible with the common plug profile types on the market

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Criteria for Product Selection

Various factors must be considered when selecting a suitable solution. They all have an influence on which coupling system will be the final choice. We have summarized the most important aspects.



Best solution: The perfect product

Reliability

Best sealing characteristics

Safety

Durability

Simple handling and installation

Industries

You will find the **LUDECKE** product range in a variety of applications and industries.



Fluid technology



Industry



Machine and
Plant Construction



Drive Technology



Plastics Technology



Construction Industry



Chemical Technology



Pharmaceutical and
Medical Engineering



Food Industry



Snowmaking
Technology



Gardening and
Landscaping



Craftmanship



Petrochemical
Industry



Transport and
Traffic



Shipbuilding



Automotive



Agriculture



Municipal Technology



Electrical Engineering



Welding Technology



Household



Renewable
Energies



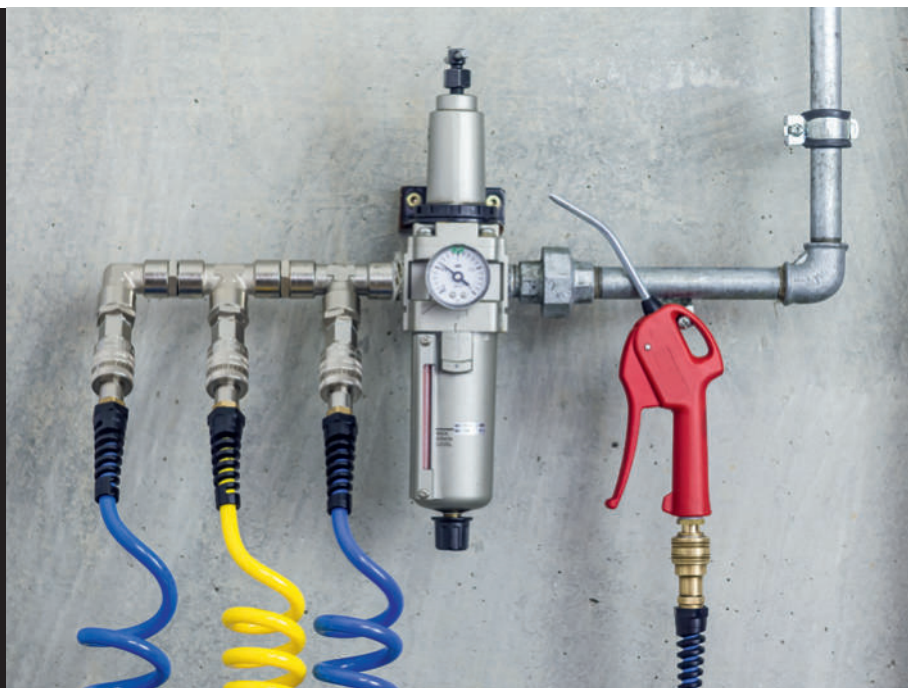
Textile Industry



Server and
Processor Cooling



Pneumatics



Quick Connect Couplings
European Plug Profiles



Quick Connect Couplings
International Plug Profiles



MODY Spiral Hoses



Blow-off Valves and
Blow-off Guns



Pneumatic Screwings
and Fittings



Hose Clamps, Hose Clips,
Ferrules



**Opti[®]
Flow**
by LUDECKE

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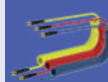
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Professional Compressed Air Supply



Due to the high level of automation of modern manufacturing facilities, compressed air plays a significant role as an energy source within industrial companies. An easy and efficient compressed air supply is essential for every industrial factory.

The versatile, high-quality **LUDECKE** quick connect coupling systems are ideally suited for compressed air applications of all kinds. They can be used to quickly connect/disconnect media-carrying lines to tools, machines and equipment.

Advantages:

- High-quality materials
- Sturdy, reliable and durable
- Easy to couple
- Various sizes and connection types
- Energy-efficient quick connect couplings as well as couplings equipped with different safety mechanisms
- Numerous possible applications for pneumatics, measurement and control technology

Broad Range

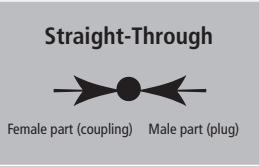
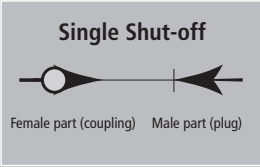
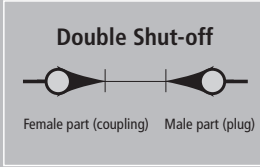
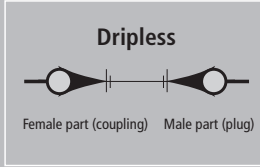
The **LUDECKE** product range contains a large selection of European and International plug profiles. They cover the world's most common plug profiles and ensure high compatibility.

If there is no coupling system in our product range which meets your requirements, we will be pleased to develop an individual solution with you.



Valve Designs

The **LUDECKE** quick connect couplings are available in different valve designs.

<p>Straight-Through</p>  <ul style="list-style-type: none"> • No valve - neither within the coupling nor within the plug • Maximum flow rate • During disconnection: media will leak from the coupling and plug line 	<p>Single Shut-off</p>  <ul style="list-style-type: none"> • Straight-through plug • Coupling with valve • During disconnection: media might leak from the plug line 	<p>Double Shut-off</p>  <ul style="list-style-type: none"> • Valves on both sides (male/ female) • During disconnection: media will stay in the hose of both connection lines, constant pressure is maintained • Valve construction designed for media flow from coupling to plug 	<p>Dripless</p>  <ul style="list-style-type: none"> • Valves on both sides (male/ female) - without dead space volume • During disconnection: only a minimal film of the media will leak (no drops will form)
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Materials

For all products, **LUDECKE** only uses premium materials which are customised to the application.

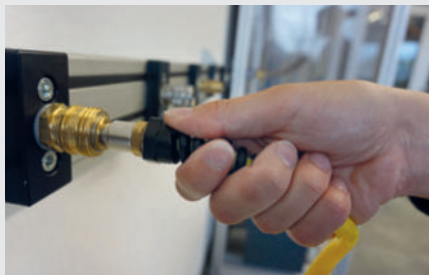
<p>Brass (plain/ nickel-plated)</p> <p>Most of the LUDECKE quick connect couplings consist of brass MS 58 (machining brass). It is a very sturdy material which guarantees high durability and is perfectly suited for galvanization (nickel, chrome).</p>	<p>Steel (machining steel)</p> <p>If products are used under tough conditions (i.e. in foundries), they need to be manufactured out of machining steel (hardened, nickel-plated or zinc-plated). This material has good case-hardening properties and a long lifetime.</p>
<p>Stainless steel</p> <p>For applications with specific hygiene standards or when conveying various difficult media, quick connect couplings made of stainless steel are required. For further information please refer to our program for the processing industry.</p>	<p>Seals</p> <p>Depending on the application and/or requirement, LUDECKE offers various types of sealings made of NBR, EPDM, FKM or FFKM.</p>

Connecting within Seconds

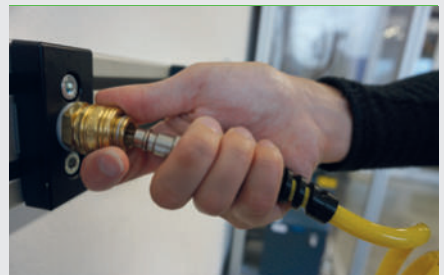
The **LUDECKE** quick connect couplings are extremely easy to handle.



One-hand operation: To connect, simply push the plug into the coupling.



To disconnect, pull back the sleeve of the coupling (comes with automatic locking mechanism in shut-off couplings and plugs)



Quick Connect Couplings with European Plug Profiles

Each application area is confronted with various challenges and sets priorities in accordance with the individual requirements. To comply to all demands, **LUDECKE** offers three different lines of quick connect coupling systems with European plug profiles.

Quality-Line Unlimited Flexibility



The **LUDECKE Quality-Line** provides high-class couplings in various sizes to cover all types of applications.

- Micro Quick Connect Couplings, Series ESMC DN 2.7
- Mini Quick Connect Couplings, Series ESM DN 5
- Quick Connect Couplings, Series ES DN 7.2

OptiFlow-Line Energy-Efficient Quick Connect Couplings



With our products from the **LUDECKE OptiFlow-Line**, you will receive energy-optimised coupling systems which achieve higher flow rates and significantly reduce energy consumption. This leads to decreasing energy costs as well as to increasing durability and lifetime of machines and tools.

→ For series ES11A DN 7.4 / ES12A DN 7.4 / ESI DN 7.8 / ESIK DN 7.8 / ESIS DN 7.8 / ESIFK DN 7.8 / ESIG DN 10 / ESG DN 19

SafeConnect-Line Quick Connect Couplings For High-Safety Standards

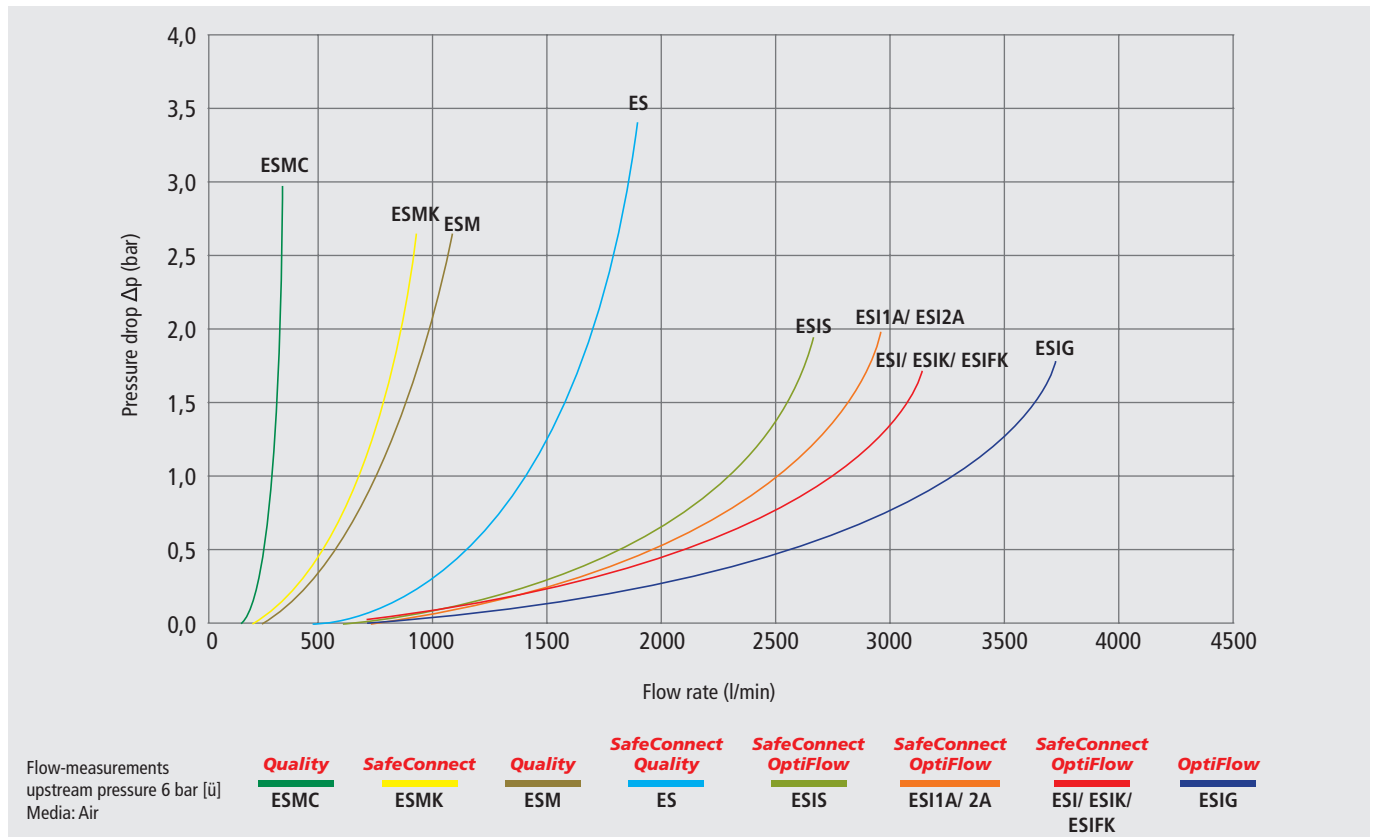


The **LUDECKE SafeConnect-Line** contains various coupling systems which provide a reliable protection against possible safety problems (e.g. whiplash-effect, high noise level, false coupling).

→ For series ESIS DN 7.8 / ES DN 7.2 / ESI DN 7.8 / ESIK DN 7.8 / ES11A DN 7.4 / ES12A DN 7.4 / ESMK DN 5 / ESIFK DN 7.8

Comparison Chart of Flow Rates

The flow rates of our coupling systems are summarized in the following chart.



Testing Panel

To train and thoroughly test our quick connect couplings, we developed Testing Panels. These sample bars represent the quick connect coupling series from DN 2.7 up to DN 10 of our **Quality**-, **OptiFlow**- and **SafeConnect-Line** as well as the MODY spiral hoses under pressure.

Your advantages:

- Extensive information about each product and how they work
- Testing high-quality products under real life conditions (the coupling procedure may be executed with media passing through the lines)
- Multilingual: German and English (on request, also in other languages)

Product Information

Functional Description

Application Possibilities (coupling)

Compressed Air Connection

LUDECKE MADE IN GERMANY

Pressure of the panel is reduced to 3 bar for safety

We offer the testing panels at cost price.
If you are interested please contact our expert sales team.

Overview of Quick Connect Couplings with

Quality-Line

OptiFlow-Line

Series

ESMC
DN 2.7

ESM
DN 5

ES
DN 7.2

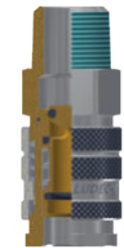
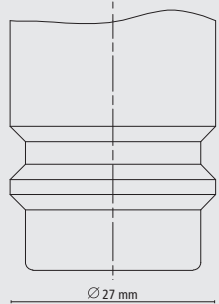
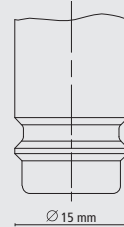
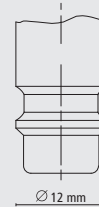
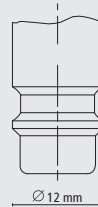
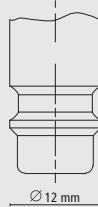
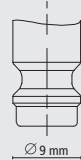
ESI
DN 7.8

ESIS*
DN 7.8

ESIG
DN 10

ESG
DN 19

Plug Profile
(original size)



Materials:

Body:	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 plain
Sleeve:	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	Steel hardened + nickel-pl.	Steel hardened + nickel-pl.	Steel hardened + nickel-pl.	MS 58 plain
Valve Body:	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 plain
Valve:	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 (plain/n-plated)	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain
Springs, Retaining ring:	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310
Balls:	Stainless Steel 1.3541	Stainless Steel 1.3541	-	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034
Pins:	-	-	Stainless Steel 1.4305	-	-	-	-
Seals:	NBR	NBR	NBR	NBR	NBR	NBR	NBR
Special seals for other media on request:	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM	EPDM, FKM, FFKM
Plugs:	MS 58 (plain/nickel-plated)	MS 58 (plain/nickel-plated)/ steel zinc-plated	MS 58 (plain/nickel-plated)/ steel zinc-plated	Steel hardened + nickel-plated	Steel hardened + nickel-plated	Steel hardened + nickel-plated	MS 58 plain
Max. Working Pressure:	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 12 bar	PN 35 bar	PN 35 bar
Temperature:	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C
Thread types:	ISO 228/ DIN 13	ISO 228/ DIN 13	ISO 228/ DIN EN 10226/ DIN 13	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228
Flow rate: at 6 bar [ü] and 0.5 bar pressure drop single shut-off	165 l/min	510 l/min	1100 l/min	2000 l/min	1800 l/min	3200 l/min	8000 l/min
Type of valve:	single/ double/ straight-through	single/ double/ straight-through	single/ double/ straight-through	single/ double/ straight-through	single	single/ double/ straight-through	single/ double
Operation:	One-Hand	One-Hand	One-Hand	One-Hand	One-Hand	One-Hand	One-Hand
Interchange:	Parker Rectus Series 20	Parker Rectus Series 21	Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 27/41/1700 Cejn 410	Parker Rectus Series 39 Hansen 7000
Page:	32	37	43	54	68	59	62

European Plug Profiles

SafeConnect-Line

NEW!

ESIS*
DN 7.8

ES
DN 7.2

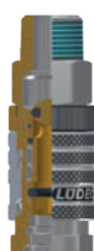
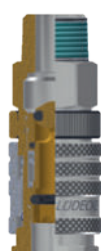
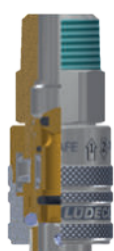
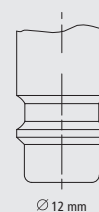
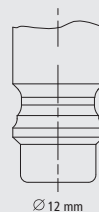
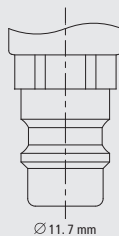
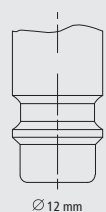
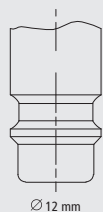
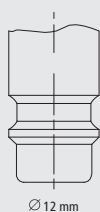
ESI*
DN 7.8

ESIK*
DN 7.8

ESI1A/2A*
DN 7.4

ESMK
DN 5

ESIFK*
DN 7.8



MS 58 nickel-plated	MS 58 plain	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 plain	MS 58 plain
Steel hardened + nickel-pl.	MS 58 plain	Steel hardened + nickel-pl.	Steel hardened + nickel-pl.	MS 58 nickel-plated	Aluminium anodised	Aluminium anodised
MS 58 nickel-plated	MS 58 plain	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 plain	MS 58 plain
MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain
Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310
Stainless Steel 1.4034	-	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.3541	Stainless Steel 1.4034
-	Stainless Steel 1.4305	-	-	-	-	-
NBR	NBR	NBR	NBR	NBR	NBR	NBR
EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM	EPDM, FKM, FFKM
Steel hardened + nickel-plated	MS 58 (plain/nickel-plated)/steel zinc-plated	Steel hardened + nickel-plated	Steel hardened + nickel-plated	MS 58 nickel-plated	MS 58 plain with anodized aluminium ring	MS 58 plain with anodized aluminium ring
PN 12 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar
-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C
ISO 228/ DIN EN 10226	ISO 228	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228	ISO 228
1800 l/min	1100 l/min	2000 l/min	2000 l/min	1800 l/min	430 l/min	2000 l/min
single	single	single	single	single	single/ double	single
One-Hand	One-Hand	One-Hand	One-Hand	Two-Hands	One-Hand	One-Hand
Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 25/26 Cejn 320	Parker Rectus Series 25/26, Cejn 320 Steinco Series 125	Parker Rectus Series 95/96 Cejn 320	Parker Rectus Series 21	Parker Rectus Series 25 KA
68	69	70	72	74/ 75	76	80
Self-Venting	Sleeve Lock Mechanism			Visual Identification		

* SafeConnect-Line + OptiFlow-Line

Quality-Line

Unlimited Flexibility



With the **LUDECKE Quality-Line**, you will receive first-class coupling systems in various sizes which cover all types of applications: ranging from standard quick connect couplings to micro quick connect couplings.

It is a tried and tested portfolio - absolutely easy, quick and safe to handle.

The **LUDECKE Quality-Line** is suitable for numerous applications in pneumatics, compressed air supply, measurement and control technology.

Advantages:

- Tried and tested **LUDECKE** quality
- Extremely broad product range within the single series with different:
 - Materials (brass plain/ nickel-plated)
 - Valve types (single/ double/ straight-through)
 - Connection types (male thread, female thread, hose barb, squeeze nut)
- Quick and easy solutions for standard applications

Different Sizes and Versions

The products of the **LUDECKE Quality-Line** are available in different versions.

On request, we also provide the coupling series ESMC and ESM with coloured anodized aluminium sleeves.

The original

Micro Quick Connect Couplings

- Series with smallest dimensions
- For use in very tight spaces

Series:
ESMC DN 2.7



Mini Quick Connect Couplings

- Series with reduced dimensions
- For use in tight spaces
- Available as dripless version

Series:
ESM DN 5



Quick Connect Couplings

- Series with standard dimensions

Series:
ES DN 7.2



The Original: The One-Hand Quick Connect Coupling Series ES DN 7.2

With its quick connect coupling system ES DN 7.2, **LUDECKE** offers a high-quality, extremely robust as well as tried and tested product.



Advantages:

- Original solid design: This means there will be no future savings in material
- Suitable for low vacuum at low couple force compared to all other compatible products
- Closed sleeve design protects the coupling from dirt
- High-class seals (no reduced O-ring seals): stays leakage-proof even at steep tilting moments of the plug

The original

Flexibility at its best:

There's no other quick connect coupling system, offering such an extensive selection of connection, adapter and distributor versions.

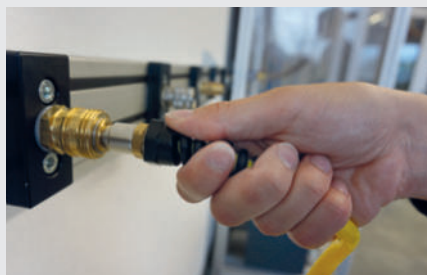


Functional Principle

All the quick connect couplings from our **Quality-Line** work according to the common coupling principle of one-hand quick connect couplings.



One-hand operation: To connect simply push the plug into the coupling.



To disconnect, pull back the sleeve from the coupling (comes with automatic locking mechanism in shut-off couplings).

Micro Quick Connect Couplings

Series ESMC single shut-off

DN 2.7



Also in Stainless Steel
Series ESMCE
Page 286

- One-hand quick connect couplings with smallest dimensions made of brass MS 58 plain/ nickel-plated
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	2.7	ISO 228 / DIN 13	165 l/min	One-hand	Single shut-off	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 m	26	9	10	5	9	ESMCN 5 A	ESMC 5 A
G 1/8 m	28	11	10	7	12	ESMCN 18 A	ESMC 18 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 f	26	9	10	5	10	ESMCN 5 I	ESMC 5 I
G 1/8 f	28	12	10	7	14	ESMCN 18 I	ESMC 18 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	35	10	13	9	ESMCN 3 T	ESMC 3 T
Hose i.D. 4	35	10	13	10	ESMCN 4 T	ESMC 4 T
Hose i.D. 5	35	10	13	10	ESMCN 5 T	ESMC 5 T

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No. n. plated	Type No. plain
Hose 3x4	33	9	10	15	ESMCN 34 TQ	ESMC 34 TQ
Hose 3x5	33	9	10	15	ESMCN 3 TQ	ESMC 3 TQ
Hose 4x6	32	9	10	15	ESMCN 4 TQ	ESMC 4 TQ

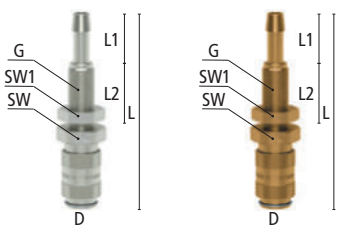
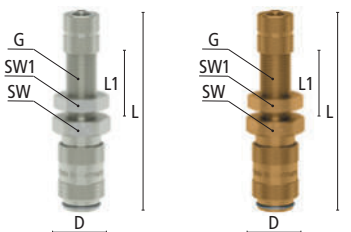
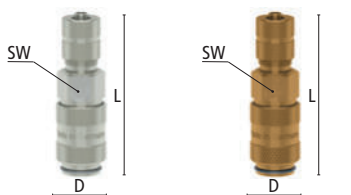
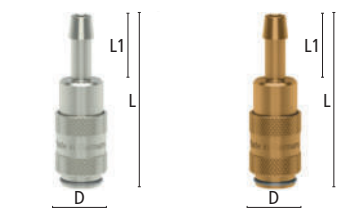
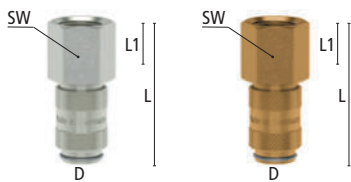
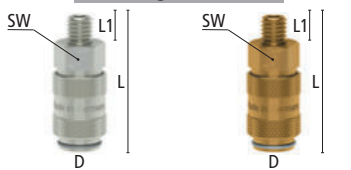
Couplings with hose squeeze nut and bulkhead screwing

Hose connect.	L	SW	D	L1	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose 3x4	45	12	10	17	11	M 7x0.5 m	26	ESMCN 34 TQSV	ESMC 34 TQSV
Hose 3x5	45	12	10	17	11	M 7x0.5 m	26	ESMCN 35 TQSV	ESMC 35 TQSV
Hose 4x6	45	12	10	17	12	M 8x0.5 m	26	ESMCN 4 TQSV	ESMC 4 TQSV

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose barb and bulkhead screwing

Hose connect.	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	51	12	10	13	17	11	M 7x0.5 m	24	ESMCN 3 TSV	ESMC 3 TSV
Hose i.D. 4	51	12	10	13	17	11	M 7x0.5 m	24	ESMCN 4 TSV	ESMC 4 TSV
Hose i.D. 5	51	12	10	13	17	12	M 8x0.5 m	24	ESMCN 5 TSV	ESMC 5 TSV

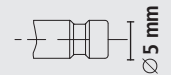


Micro Quick Connect Couplings

single shut-off **Series ESMC**

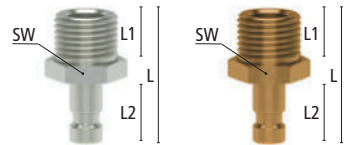
DN 2.7

Plug Profile (original size)



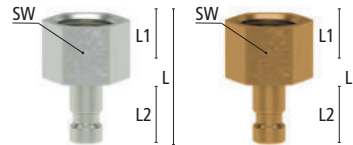
Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
M 5 m	18	7	5	10	3	ESMCN 5 NA	ESMC 5 NA
G 1/8 m	20	11	7	10	6	ESMCN 18 NA	ESMC 18 NA



Plugs with female thread

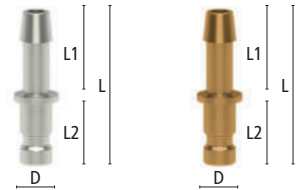
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
M 5 f	17	7	5	10	3	ESMCN 5 NI	ESMC 5 NI
G 1/8 f	19	12	7	10	6	ESMCN 18 NI	ESMC 18 NI



Plugs with hose barb

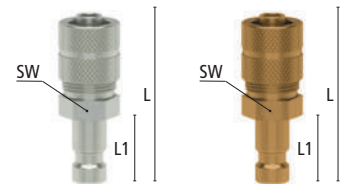
Hose connection	L	D	L1	L2	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	24	7	13	10	2	ESMCN 3 S	ESMC 3 S
Hose i.D. 4	24	7	13	10	3	ESMCN 4 S	ESMC 4 S
Hose i.D. 5	24	9	13	10	3	ESMCN 5 S	ESMC 5 S

For hose clips type ZOS (© page 130) or type HS (© page 131)



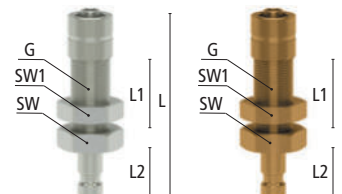
Plugs with hose squeeze nut

Hose connection	L	SW	L1	Weight	Type No. n. plated	Type No. plain
Hose 3x4	25	8	10	12	ESMCN 34 SQ	ESMC 34 SQ
Hose 3x5	25	8	10	12	ESMCN 3 SQ	ESMC 3 SQ
Hose 4x6	25	8	10	12	ESMCN 4 SQ	ESMC 4 SQ



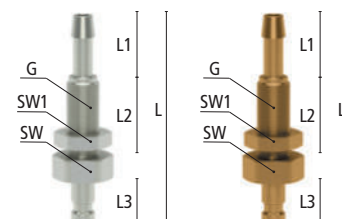
Plugs with hose squeeze nut and bulkhead screwing

Hose connect.	L	SW	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose 3x4	38	12	17	10	11	M 7x0.5 m	23	ESMCN 34 SQSV	ESMC 34 SQSV
Hose 3x5	38	12	17	10	11	M 7x0.5 m	23	ESMCN 35 SQSV	ESMC 35 SQSV
Hose 4x6	38	12	17	10	12	M 8x0.5 m	23	ESMCN 4 SQSV	ESMC 4 SQSV



Plugs with hose barb and bulkhead screwing

Hose connect.	L	SW	L1	L2	L3	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	45	12	13	17	10	11	M 7x0.5 m	21	ESMCN 3 SSV	ESMC 3 SSV
Hose i.D. 4	45	12	13	17	10	11	M 7x0.5 m	21	ESMCN 4 SSV	ESMC 4 SSV
Hose i.D. 5	45	12	13	17	10	12	M 8x0.5 m	21	ESMCN 5 SSV	ESMC 5 SSV



Micro Quick Connect Couplings

Series ESMC double shut-off

DN 2.7



Also in Stainless Steel
Series ESMCE
Page 288

- One-hand quick connect couplings with smallest dimensions made of brass MS 58 plain/ nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Attention: Couplings can be connected with straight-through plugs DN 2.7. However, double shut-off plugs cannot be connected with standard couplings DN 2.7
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	2.7	ISO 228 / DIN 13	155 l/min	One-hand	Double shut-off	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 m	26	9	10	5	9	ESMCN 5 AAB	ESMC 5 AAB
G 1/8 m	28	11	10	7	12	ESMCN 18 AAB	ESMC 18 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 f	26	9	10	5	10	ESMCN 5 IAB	ESMC 5 IAB
G 1/8 f	28	12	10	7	14	ESMCN 18 IAB	ESMC 18 IAB

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	35	10	13	9	ESMCN 3 TAB	ESMC 3 TAB
Hose i.D. 4	35	10	13	10	ESMCN 4 TAB	ESMC 4 TAB
Hose i.D. 5	35	10	13	10	ESMCN 5 TAB	ESMC 5 TAB

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No. n. plated	Type No. plain
Hose 3x4	33	9	10	15	ESMCN 34 TQAB	ESMC 34 TQAB
Hose 3x5	33	9	10	15	ESMCN 3 TQAB	ESMC 3 TQAB
Hose 4x6	32	9	10	15	ESMCN 4 TQAB	ESMC 4 TQAB

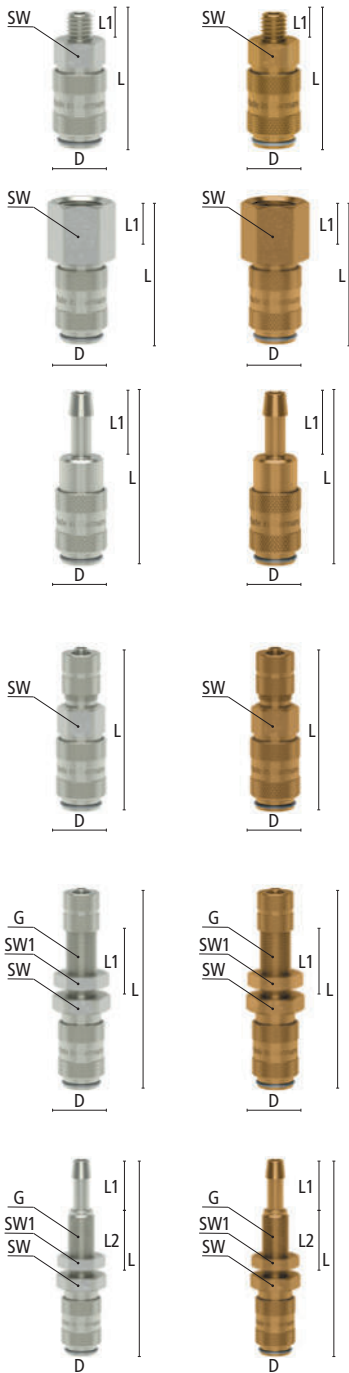
Couplings with hose squeeze nut and bulkhead screwing

Hose connect.	L	SW	D	L1	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose 3x4	45	12	10	17	11	M 7x0.5 m	26	ESMCN 34 TQSVAB	ESMC 34 TQSVAB
Hose 3x5	45	12	10	17	11	M 7x0.5 m	26	ESMCN 35 TQSVAB	ESMC 35 TQSVAB
Hose 4x6	45	12	10	17	12	M 8x0.5 m	26	ESMCN 4 TQSVAB	ESMC 4 TQSVAB

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose barb and bulkhead screwing

Hose connect.	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	51	12	10	13	17	11	M 7x0.5 m	24	ESMCN 3 TSVAB	ESMC 3 TSVAB
Hose i.D. 4	51	12	10	13	17	11	M 7x0.5 m	24	ESMCN 4 TSVAB	ESMC 4 TSVAB
Hose i.D. 5	51	12	10	13	17	12	M 8x0.5 m	24	ESMCN 5 TSVAB	ESMC 5 TSVAB

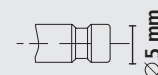


Micro Quick Connect Couplings

double shut-off **Series ESMC**

DN 2.7

Plug Profile (original size)



Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
M 5 m	28	7	5	10	8	ESMCN 5 NAAB	ESMC 5 NAAB
G 1/8 m	30	11	7	10	10	ESMCN 18 NAAB	ESMC 18 NAAB

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
M 5 f	27	7	5	10	8	ESMCN 5 NIAB	ESMC 5 NIAB
G 1/8 f	29	12	7	10	10	ESMCN 18 NIAB	ESMC 18 NIAB

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	37	9	13	10	6	ESMCN 3 SAB	ESMC 3 SAB
Hose i.D. 4	37	9	13	10	7	ESMCN 4 SAB	ESMC 4 SAB
Hose i.D. 5	37	9	13	10	7	ESMCN 5 SAB	ESMC 5 SAB

For hose clips type ZOS (© page 130) or type HS (© page 131)

Plugs with hose squeeze nut

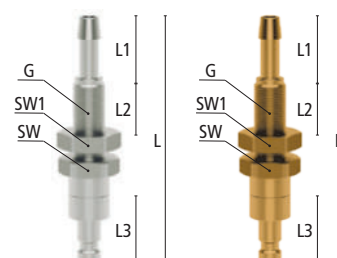
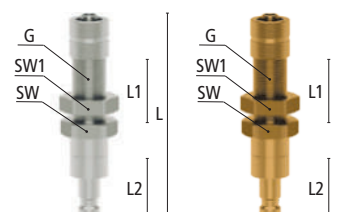
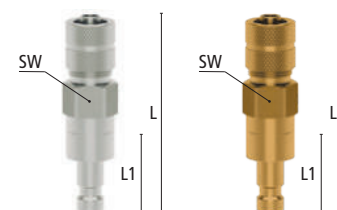
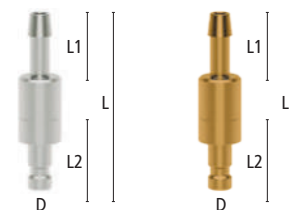
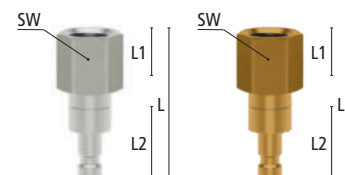
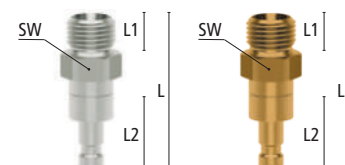
Hose connection	L	SW	L1	Weight	Type No. n. plated	Type No. plain
Hose 3x4	34	9	10	10	ESMCN 34 SQAB	ESMC 34 SQAB
Hose 3x5	34	9	10	10	ESMCN 3 SQAB	ESMC 3 SQAB
Hose 4x6	34	9	10	10	ESMCN 4 SQAB	ESMC 4 SQAB

Plugs with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose 3x4	47	12	17	10	11	M 7x0.5 m	17	ESMCN 34 SQSVAB	ESMC 34 SQSVAB
Hose 3x5	47	12	17	10	11	M 7x0.5 m	17	ESMCN 35 SQSVAB	ESMC 35 SQSVAB
Hose 4x6	47	12	17	10	12	M 8x0.5 m	17	ESMCN 4 SQSVAB	ESMC 4 SQSVAB

Plugs with hose barb and bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	53	12	13	17	10	11	M 7x0.5 m	16	ESMCN 3 SSVAB	ESMC 3 SSVAB
Hose i.D. 4	53	12	13	17	10	11	M 7x0.5 m	16	ESMCN 4 SSVAB	ESMC 4 SSVAB
Hose i.D. 5	53	12	13	17	10	12	M 8x0.5 m	16	ESMCN 5 SSVAB	ESMC 5 SSVAB



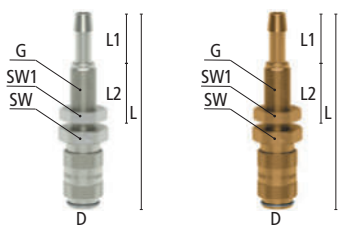
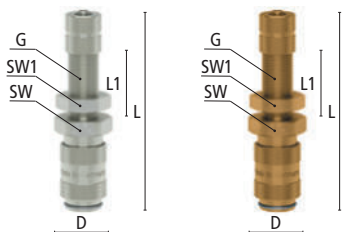
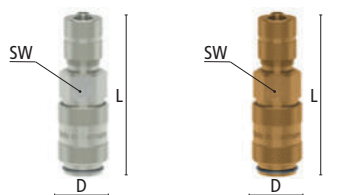
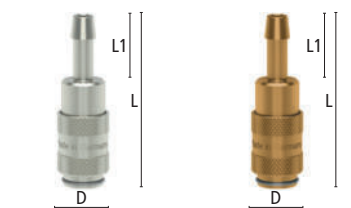
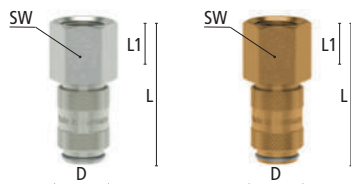
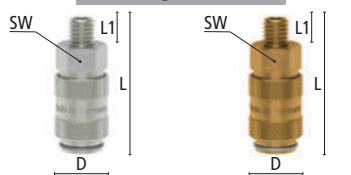
Micro Quick Connect Couplings

Series ESMC straight-through

DN 2.7



Also in Stainless Steel
Series ESMC
Page 290



- One-hand quick connect couplings with smallest dimensions made of brass MS 58 plain/ nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESMC DN 2.7 with straight-through passage (page 33)
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	2.7	ISO 228 / DIN 13	170 l/min	One-hand	Straight-through	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 m	26	9	10	5	9	ESMCN 5 AO	ESMC 5 AO
G 1/8 m	28	11	10	7	12	ESMCN 18 AO	ESMC 18 AO

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
M 5 f	26	9	10	5	10	ESMCN 5 IO	ESMC 5 IO
G 1/8 f	28	12	10	7	14	ESMCN 18 IO	ESMC 18 IO

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	35	10	13	9	ESMCN 3 TO	ESMC 3 TO
Hose i.D. 4	35	10	13	10	ESMCN 4 TO	ESMC 4 TO
Hose i.D. 5	35	10	13	10	ESMCN 5 TO	ESMC 5 TO

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No. n. plated	Type No. plain
Hose 3x4	33	9	10	15	ESMCN 34 TQO	ESMC 34 TQO
Hose 3x5	33	9	10	15	ESMCN 3 TQO	ESMC 3 TQO
Hose 4x6	32	9	10	15	ESMCN 4 TQO	ESMC 4 TQO

Couplings with hose squeeze nut and bulkhead screwing

Hose connect.	L	SW	D	L1	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose 3x4	45	12	10	17	11	M 7x0.5 m	26	ESMCN 34 TQSVO	ESMC 34 TQSVO
Hose 3x5	45	12	10	17	11	M 7x0.5 m	26	ESMCN 35 TQSVO	ESMC 35 TQSVO
Hose 4x6	45	12	10	17	12	M 8x0.5 m	26	ESMCN 4 TQSVO	ESMC 4 TQSVO

For hose clips type ZOS (© page 130) or type HS (© page 131)

Couplings with hose barb and bulkhead screwing

Hose connect.	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 3	51	12	10	13	17	11	M 7x0.5 m	24	ESMCN 3 TSVO	ESMC 3 TSVO
Hose i.D. 4	51	12	10	13	17	11	M 7x0.5 m	24	ESMCN 4 TSVO	ESMC 4 TSVO
Hose i.D. 5	51	12	10	13	17	12	M 8x0.5 m	24	ESMCN 5 TSVO	ESMC 5 TSVO

Mini Quick Connect Couplings

single shut-off **Series ESM**

- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain/ nickel-plated
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain/ nickel-plated or steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN 13	510 l/min	One-hand	Single shut-off	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMN 18 A	ESM 18 A
G 1/4 m	38	17	16	9	36	ESMN 14 A	ESM 14 A
G 3/8 m	38	19	16	9	43	ESMN 38 A	ESM 38 A
M 10x1 m	37	14	16	7	35	ESMN 101 A	ESM 101 A
M 12x1.5 m	39	17	16	10	37	ESMN 121 A	ESM 121 A
M 14x1.5 m	39	17	16	10	37	ESMN 141 A	ESM 141 A

Male thread sealing with PVC sealing ring type HPD (© page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	37	14	16	9	32	ESMN 18 I	ESM 18 I
G 1/4 f	38	17	16	9	38	ESMN 14 I	ESM 14 I
G 3/8 f	39	19	16	10.5	39	ESMN 38 I	ESM 38 I
M 10x1 f	38	14	16	9	36	ESMN 101 I	ESM 101 I
M 12x1.5 f	38	17	16	9	39	ESMN 121 I	ESM 121 I
M 14x1.5 f	38	17	16	9	37	ESMN 141 I	ESM 141 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	46	16	17	27	ESMN 4 T	ESM 4 T
Hose i.D. 5	46	16	17	27	ESMN 5 T	ESM 5 T
Hose i.D. 6	46	16	17	27	ESMN 6 T	ESM 6 T
Hose i.D. 8	46	16	17	29	ESMN 8 T	ESM 8 T
Hose i.D. 9	46	16	17	29	ESMN 9 T	ESM 9 T

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	42	14	16	-	30	ESMN 35 TQ	ESM 35 TQ
Hose 4x6	43	14	16	12	32	ESMN 4 TQ	ESM 4 TQ
Hose 6x8	43	14	16	14	34	ESMN 6 TQ	ESM 6 TQ

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	100	14	16	11	35	ESMN 35 TQF	ESM 35 TQF
Hose 4x6	120	14	16	12	39	ESMN 4 TQF	ESM 4 TQF
Hose 6x8	130	14	16	14	44	ESMN 6 TQF	ESM 6 TQF

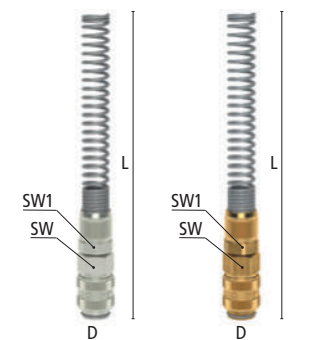
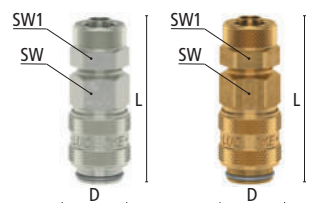
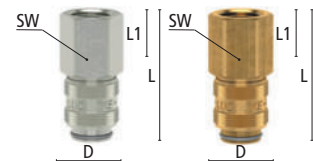
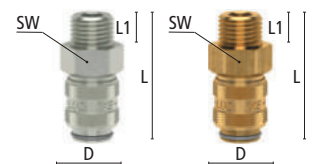
Additional special versions on request.

DN 5



Also in Stainl. Steel
Series ESME
Page 291

Also as
dripless version
Series ESMLA
Page 291

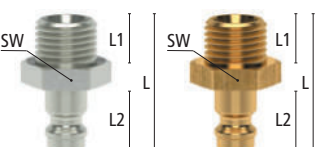
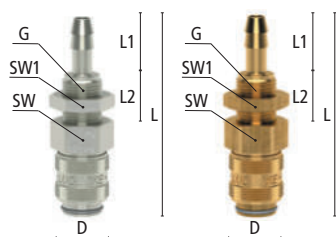
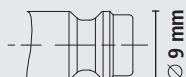


Mini Quick Connect Couplings

Series ESM single shut-off

DN 5

Plug Profile (original size)



Bulkhead couplings

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	60	14	16	17	14	14	M 10x1 m	40	ESMN 4 TSV	ESM 4 TSV
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMN 6 TSV	ESM 6 TSV
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMN 9 TSV	ESM 9 TSV

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Couplings with plug DN 7.2-ES-System adapter

Connection	L	D	L1	DS	Weight	Type No.
Plug ES DN 7.2	49	16	20	12	33	ESMK-ESS

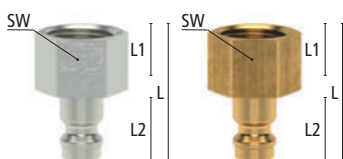
Plugs with male thread

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 m	25	13	7	14	MS 58	11	ESMN 18 NA	ESM 18 NA
G 1/4 m	27.5	17	9	14	MS 58	18	ESMN 14 NA	ESM 14 NA
G 3/8 m	27.5	19	9	14	MS 58	21	ESMN 38 NA	ESM 38 NA
M 10x1 m	26	13	8	14	MS 58	11	ESMN 101 NA	ESM 101 NA
M 12x1.5 m	28.5	17	10	14	MS 58	18	ESMN 121 NA	ESM 121 NA
M 14x1.5 m	28.5	17	10	14	MS 58	19	ESMN 141 NA	ESM 141 NA
G 1/8 m	25	13	7	14	Steel zinc-pl.	10	ESMN 18 NAS	ESM 18 NAS
G 1/4 m	27.5	17	9	14	Steel zinc-pl.	16	ESMN 14 NAS	ESM 14 NAS

Male thread sealing with PVC sealing ring type HPD (© page 212)

Plugs with female thread

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 f	25	13	9	14	MS 58	12	ESMN 18 NI	ESM 18 NI
G 1/4 f	26	17	10	14	MS 58	18	ESMN 14 NI	ESM 14 NI
G 3/8 f	26.5	19	10.5	14	MS 58	22	ESMN 38 NI	ESM 38 NI
M 6 f	22.5	12	8	14	MS 58	11	ESMN 6 NI	ESM 6 NI
M 8 f	24	12	10	14	MS 58	11	ESMN 8 NI	ESM 8 NI
M 10x1 f	22.5	13	7	14	MS 58	10	ESMN 101 NI	ESM 101 NI
M 12x1.5 f	25	17	9	14	MS 58	19	ESMN 121 NI	ESM 121 NI
M 14x1.5 f	25	17	9	14	MS 58	17	ESMN 141 NI	ESM 141 NI
G 1/8 f	25	13	9	14	Steel zinc-pl.	11	ESMN 18 NIS	ESM 18 NIS
G 1/4 f	26	17	10	14	Steel zinc-pl.	17	ESMN 14 NIS	ESM 14 NIS

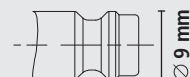


Mini Quick Connect Couplings

single shut-off **Series ESM**

DN 5

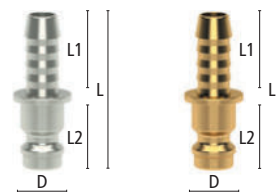
Plug Profile (original size)



Plugs with hose barb

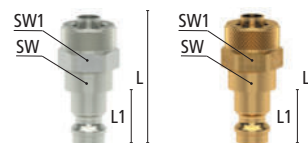
Hose connection	L	D	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	32	9	16.5	14	MS 58	7	ESMN 4 S	ESM 4 S
Hose i.D. 5	32	12	16.5	14	MS 58	8	ESMN 5 S	ESM 5 S
Hose i.D. 6	32	12	16.5	14	MS 58	8	ESMN 6 S	ESM 6 S
Hose i.D. 8	32	12	16.5	14	MS 58	12	ESMN 8 S	ESM 8 S
Hose i.D. 9	38	12	23	14	MS 58	11	ESMN 9 S	ESM 9 S
Hose i.D. 4	32	9	16.5	14	Steel zinc-pl.	6		ESM 4 SS
Hose i.D. 6	32	12	16.5	14	Steel zinc-pl.	7		ESM 6 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



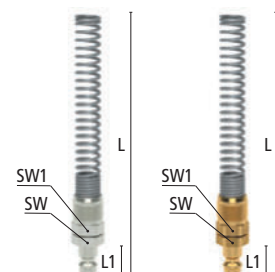
Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	32	12	14	-	14	ESMN 35 SQ	ESM 35 SQ
Hose 4x6	32	-	14	12	6	ESMN 4 SQ	ESM 4 SQ
Hose 6x8	32	-	14	14	23	ESMN 6 SQ	ESM 6 SQ



Plugs with squeeze nut and spring guards

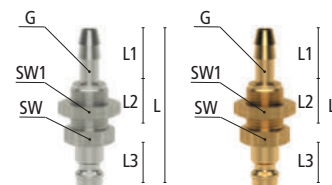
Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	90	12	14	11	24	ESMN 35 SQF	ESM 35 SQF
Hose 4x6	110	-	14	12	26	ESMN 4 SQF	ESM 4 SQF
Hose 6x8	120	-	14	14	29	ESMN 6 SQF	ESM 6 SQF



Plugs with bulkhead screwing

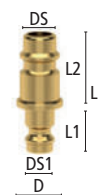
Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	50	14	17	14	14	14	M 10x1 m	20	ESMN 4 SSV	ESM 4 SSV
Hose i.D. 6	50	14	17	14	14	17	M 12x1 m	25	ESMN 6 SSV	ESM 6 SSV
Hose i.D. 9	50	17	17	14	14	19	M 12x1 m	30	ESMN 9 SSV	ESM 9 SSV

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



System-adapter

Connection	L	D	L1	L2	DS	DS1	Weight	Type No.
DN 5 - DN 7.2	36	14	14	20	12	9	16	ESM-ES

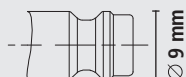


Mini Quick Connect Couplings

Series ESM double shut-off

DN 5

Plug Profile (original size)



Also in Stainless Steel
Series ESME
Page 293

- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain/ nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- **Attention:** Couplings can be connected with straight-through plugs DN 5. However, double shut-off plugs cannot be connected with standard couplings DN 5
- Several fields of application, above all for liquid media in construction, control technology, switchboard cooling etc.

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN 13	330 l/min	One-hand	double shut-off	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMN 18 AAB	ESM 18 AAB
G 1/4 m	38	17	16	9	36	ESMN 14 AAB	ESM 14 AAB
G 3/8 m	38	19	16	9	43	ESMN 38 AAB	ESM 38 AAB
M 10x1 m	37	14	16	7	35	ESMN 101 AAB	ESM 101 AAB
M 12x1.5 m	39	17	16	10	37	ESMN 121 AAB	ESM 121 AAB
M 14x1.5 m	39	17	16	10	37	ESMN 141 AAB	ESM 141 AAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	37	14	16	9	32	ESMN 18 IAB	ESM 18 IAB
G 1/4 f	38	17	16	9	38	ESMN 14 IAB	ESM 14 IAB
G 3/8 f	39.5	19	16	10.5	39	ESMN 38 IAB	ESM 38 IAB
M 10x1 f	38	14	16	9	34	ESMN 101 IAB	ESM 101 IAB
M 12x1.5 f	38	17	16	9	39	ESMN 121 IAB	ESM 121 IAB
M 14x1.5 f	38	17	16	9	37	ESMN 141 IAB	ESM 141 IAB

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	46	14	16	17	27	ESMN 4 TAB	ESM 4 TAB
Hose i.D. 5	46	14	16	17	27	ESMN 5 TAB	ESM 5 TAB
Hose i.D. 6	46	14	16	17	27	ESMN 6 TAB	ESM 6 TAB
Hose i.D. 8	46	14	16	17	29	ESMN 8 TAB	ESM 8 TAB
Hose i.D. 9	46	14	16	17	29	ESMN 9 TAB	ESM 9 TAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	43	14	16	12	32	ESMN 35 TQAB	ESM 35 TQAB
Hose 4x6	43	14	16	12	32	ESMN 4 TQAB	ESM 4 TQAB
Hose 6x8	43	14	16	14	34	ESMN 6 TQAB	ESM 6 TQAB

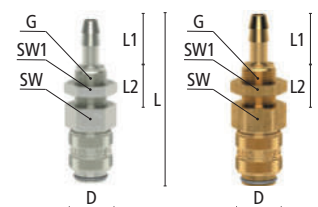
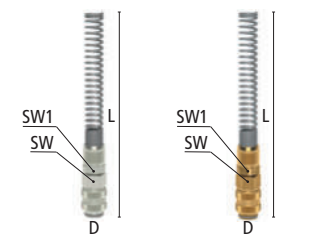
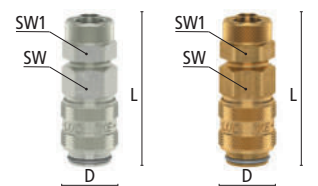
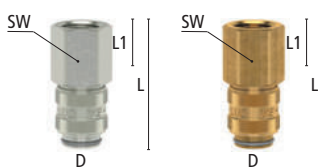
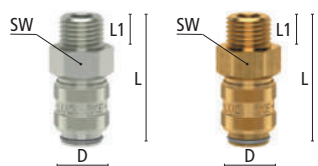
Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	120	14	16	12	39	ESMN 35 TQFAB	ESM 35 TQFAB
Hose 4x6	120	14	16	12	39	ESMN 4 TQFAB	ESM 4 TQFAB
Hose 6x8	130	14	16	14	44	ESMN 6 TQFAB	ESM 6 TQFAB

Couplings with bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	60	14	16	17	14	14	M 10x1 m	40	ESMN 4 TSVAB	ESM 4 TSVAB
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMN 6 TSVAB	ESM 6 TSVAB
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMN 9 TSVAB	ESM 9 TSVAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

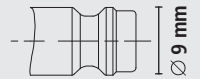


Mini Quick Connect Couplings

double shut-off **Series ESM**

DN 5

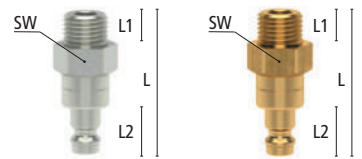
Plug Profile (original size)



Plugs with male thread

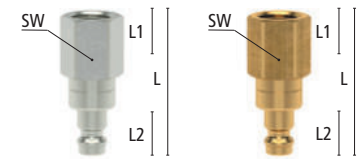
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
G 1/8 m	40	13	7	14	26	ESMN 18 NAAB	ESM 18 NAAB
G 1/4 m	42	17	9	14	35	ESMN 14 NAAB	ESM 14 NAAB
G 3/8 m	42	19	9	14	42	ESMN 38 NAAB	ESM 38 NAAB
M 10x1 m	40	14	7	14	25	ESMN 101 NAAB	ESM 101 NAAB
M 12x1.5 m	44	17	10	14	35	ESMN 121 NAAB	ESM 121 NAAB
M 14x1.5 m	44	17	10	14	36	ESMN 141 NAAB	ESM 141 NAAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)



Plugs with female thread

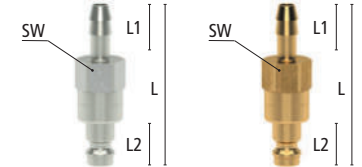
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
G 1/8 f	42	13	9	14	28	ESMN 18 NIAB	ESM 18 NIAB
G 1/4 f	42	17	10	14	38	ESMN 14 NIAB	ESM 14 NIAB
G 3/8 f	43.5	19	10.5	14	38	ESMN 38 NIAB	ESM 38 NIAB
M 10x1 f	42	14	9	14	28	ESMN 101 NIAB	ESM 101 NIAB
M 12x1.5 f	42	17	9	14	37	ESMN 121 NIAB	ESM 121 NIAB
M 14x1.5 f	42	17	9	14	38	ESMN 141 NIAB	ESM 141 NIAB



Plugs with hose barb

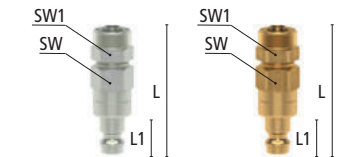
Hose connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	50	14	17	14	23	ESMN 4 SAB	ESM 4 SAB
Hose i.D. 6	50	14	17	14	23	ESMN 6 SAB	ESM 6 SAB
Hose i.D. 8	50	14	17	14	25	ESMN 8 SAB	ESM 8 SAB
Hose i.D. 9	50	14	17	14	25	ESMN 9 SAB	ESM 9 SAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



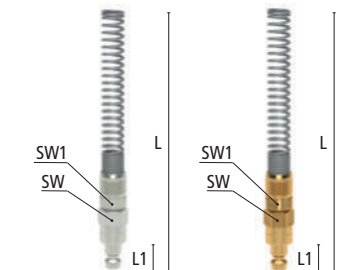
Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	47	14	14	12	32	ESMN 4 SQAB	ESM 4 SQAB
Hose 6x8	47	14	14	14	32	ESMN 6 SQAB	ESM 6 SQAB



Plugs with squeeze nut and spring guard

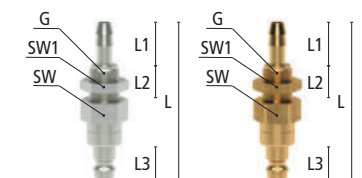
Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	135	14	14	12	40	ESMN 4 SQFAB	ESM 4 SQFAB
Hose 6x8	135	14	14	14	42	ESMN 6 SQFAB	ESM 6 SQFAB



Plugs with bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	64	14	14	14	17	14	M 10x1 m	45	ESMN 4 SSVAB	ESM 4 SSVAB
Hose i.D. 6	64	14	14	14	17	17	M 12x1 m	45	ESMN 6 SSVAB	ESM 6 SSVAB
Hose i.D. 9	64	14	14	14	17	19	M 12x1 m	45	ESMN 9 SSVAB	ESM 9 SSVAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

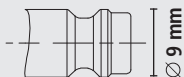


Mini Quick Connect Couplings

Series ESM straight-through

DN 5

Plug Profile (original size)



Also in Stainless Steel
Series ESME
Page 295

- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain/ nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESM DN 5 with straight-through passage (page 38)
- Suitable for low vacuum at low couple force compared to all other compatible products
- On request, couplings also available with coloured anodised aluminium sleeves
- Can be used in multiple applications in pneumatics, measure, control and regulation technology

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain/ nickel-plated or steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN 13	620 l/min	One-hand	straight-through	Air / Others	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMN 18 AO	ESM 18 AO
G 1/4 m	38	17	16	9	36	ESMN 14 AO	ESM 14 AO
G 3/8 m	38	19	16	9	43	ESMN 38 AO	ESM 38 AO
M 10x1 m	37	14	16	7	35	ESMN 101 AO	ESM 101 AO
M 12x1.5 m	39	17	16	10	37	ESMN 121 AO	ESM 121 AO
M 14x1.5 m	39	17	16	10	37	ESMN 141 AO	ESM 141 AO

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	37	14	16	9	32	ESMN 18 IO	ESM 18 IO
G 1/4 f	38	17	16	9	38	ESMN 14 IO	ESM 14 IO
G 3/8 f	39.5	19	16	10.5	39	ESMN 38 IO	ESM 38 IO
M 10x1 f	38	14	16	9	34	ESMN 101 IO	ESM 101 IO
M 12x1.5 f	38	17	16	9	39	ESMN 121 IO	ESM 121 IO
M 14x1.5 f	38	17	16	9	37	ESMN 141 IO	ESM 141 IO

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	46	14	16	17	27	ESMN 4 TO	ESM 4 TO
Hose i.D. 5	46	14	16	17	27	ESMN 5 TO	ESM 5 TO
Hose i.D. 6	46	14	16	17	27	ESMN 6 TO	ESM 6 TO
Hose i.D. 8	46	14	16	17	29	ESMN 8 TO	ESM 8 TO
Hose i.D. 9	46	14	16	17	29	ESMN 9 TO	ESM 9 TO

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	43	14	16	12	32	ESMN 35 TQO	ESM 35 TQO
Hose 4x6	43	14	16	12	32	ESMN 4 TQO	ESM 4 TQO
Hose 6x8	43	14	16	14	34	ESMN 6 TQO	ESM 6 TQO

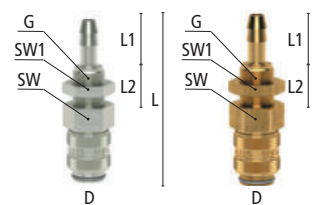
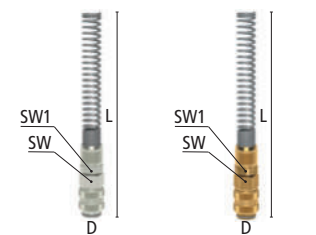
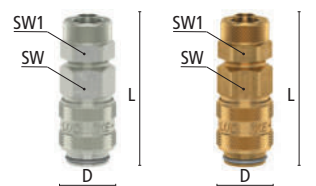
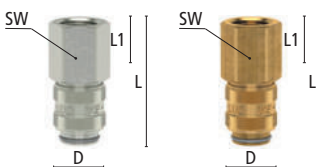
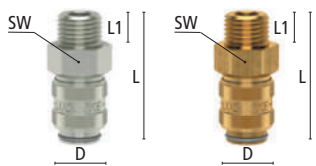
Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 3x5	120	14	16	12	39	ESMN 35 TQFO	ESM 35 TQFO
Hose 4x6	120	14	16	12	39	ESMN 4 TQFO	ESM 4 TQFO
Hose 6x8	130	14	16	14	44	ESMN 6 TQFO	ESM 6 TQFO

Couplings with bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	60	14	16	17	14	14	M 10x1 m	40	ESMN 4 TSVO	ESM 4 TSVO
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMN 6 TSVO	ESM 6 TSVO
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMN 9 TSVO	ESM 9 TSVO

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



- Universal one-hand quick connect couplings made of brass MS 58 plain/ nickel-plated
- Suitable for low vacuum at low couple force compared to all other compatible products
- Closed sleeve design protects the coupling from dirt
- For compressed air supply in industry, handcrafts, hobby as well as for water and other media

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain/ nickel-plated or steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228/ DIN EN 10226/ DIN 13	1100 l/min	One-hand	Single shut-off	Air / Others	Worldwide	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	38	22	27	7	70	ESN 18 A	ES 18 A
G 1/4 m	40	22	27	9	73	ESN 14 A	ES 14 A
G 3/8 m	41	22	27	9	76	ESN 38 A	ES 38 A
G 1/2 m	41	24	27	10	87	ESN 12 A	ES 12 A
M 14x1.5 m	40	22	27	9	75	ESN 1415 A	ES 1415 A
M 16x1.5 m	40	22	27	9	75	ESN 1615 A	ES 1615 A
M 18x1.5 m	40	22	27	10	78	ESN 1815 A	ES 1815 A

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Couplings with tapered/ cylindrical male thread, environmentally friendly Loctite-coated

Thread connection	L	SW	D	L1	Weight	Type No. plain
R 1/4 m	42	22	27	11	76	ES 14 AB
R 3/8 m	44	22	27	12	79	ES 38 AB
G 1/2 m	45	22	27	15	96	ES 12 AB

Couplings with female thread

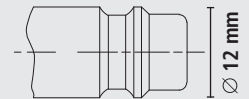
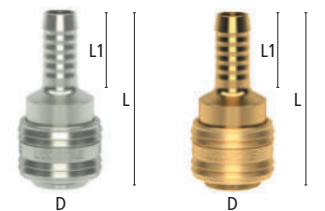
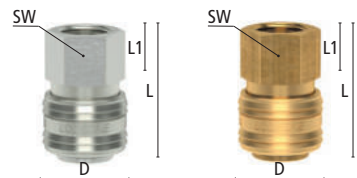
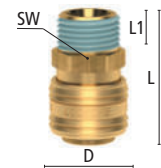
Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	39	22	27	9	90	ESN 18 I	ES 18 I
G 1/4 f	41	22	27	10.5	92	ESN 14 I	ES 14 I
G 3/8 f	41	22	27	10.5	85	ESN 38 I	ES 38 I
G 1/2 f	42.5	24	27	12	87	ESN 12 I	ES 12 I
G 3/4 f	43.5	32	27	13	110	ESN 34 I	ES 34 I
M 14x1.5 f	41.5	22	27	11	90	ESN 1415 I	ES 1415 I
M 16x1.5 f	41.5	22	27	11	84	ESN 1615 I	ES 1615 I
M 18x1.5 f	41.5	22	27	12	80	ESN 1815 I	ES 1815 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 6	55	27	25	64	ESN 6 T	ES 6 T
Hose i.D. 8	55	27	25	67	ESN 8 T	ES 8 T
Hose i.D. 9	55	27	25	68	ESN 9 T	ES 9 T
Hose i.D. 10	58	27	28	70		ES 10 TH*
Hose i.D. 10	55	27	25	70	ESN 10 T	ES 10 T
Hose i.D. 13	58	27	28	75		ES 13 TH*
Hose i.D. 13	55	27	25	75	ESN 13 T	ES 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

* ES 10 TH and ES 13 TH for the use with quick-fit hoses (e.g. Parker Push-Lock, Gates Lock-on)

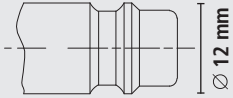
DN 7.2**Plug Profile (original size)**Also in Stainless Steel
Series ESE
Page 296

Quick Connect Couplings The original

Series ES single shut-off

DN 7.2

Plug Profile (original size)



Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	44	22	27	12	73	ESN 4 TQ	ES 4 TQ
Hose 6x8	44	22	27	14	78	ESN 6 TQ	ES 6 TQ
Hose 8x10	48	22	27	17	83	ESN 8 TQ	ES 8 TQ
Hose 9x12	48	22	27	17	85	ESN 9 TQ	ES 9 TQ

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	125	22	27	12	85	ESN 4 TQF	ES 4 TQF
Hose 5x8	130	22	27	14	88	NEW! ESN 58 TQF*	ES 58 TQF*
Hose 6x8	130	22	27	14	90	ESN 6 TQF	ES 6 TQF
Hose 6.5x10	130	22	27	17	95	NEW! ESN 6510 TQF*	ES 6510 TQF*
Hose 8x10	136	22	27	19	120	ESN 8 TQF	ES 8 TQF
Hose 8x12	140	22	27	19	130	NEW! ESN 812 TQF*	ES 812 TQF*
Hose 9x12	126	22	27	19	141	ESN 9 TQF	ES 9 TQF

* = 5

Bulkhead couplings

Hose connect.	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 6	62	22	27	17	14	17	M 12x1 m	87	ESN 6 TSV	ES 6 TSV
Hose i.D. 8	62	22	27	17	14	17	M 12x1 m	88	ESN 8 TSV	ES 8 TSV
Hose i.D. 10	70	22	27	25	14	19	M 14x1 m	90	ESN 10 TSV	ES 10 TSV

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Couplings with plug DN 5-ESM system adapter

Connection	L	D	L1	DS	Weight	Type No.
Plug ESM DN 5	44	27	14	9	69	ESK-ESMS

Couplings with angle hose barb 45°

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	44	27	27	100	ES 6 T-45
Hose i.D. 9	44	27	27	100	ES 9 T-45
Hose i.D. 13	44	27	30	110	ES 13 T-45

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Couplings with angle hose barb 90°

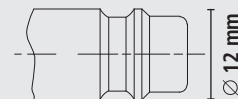
Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	44	27	26	105	ES 6 T-90
Hose i.D. 9	44	27	26	105	ES 9 T-90
Hose i.D. 13	44	27	28	115	ES 13 T-90

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Angle-Thread Couplings available on request.

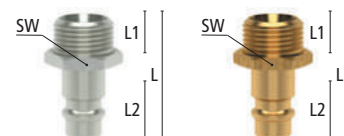
DN 7.2

Plug Profile (original size)

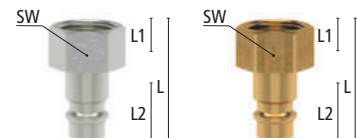
**Plugs with male thread**

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 m	31	13	7	20	MS 58	17	ESN 18 NA	ES 18 NA
G 1/4 m	33	17	9	20	MS 58	21	ESN 14 NA	ES 14 NA
G 3/8 m	33	19	9	20	MS 58	26	ESN 38 NA	ES 38 NA
G 1/2 m	35	24	10	20	MS 58	41	ESN 12 NA	ES 12 NA
M 14x1.5 m	33	17	9	20	MS 58	26	NEW! ESN 1415 NA	ES 1415 NA
M 16x1.5 m	33	19	9	20	MS 58	32	NEW! ESN 1615 NA	ES 1615 NA
M 18x1.5 m	34	22	10	20	MS 58	36	NEW! ESN 1815 NA	ES 1815 NA
G 1/8 m	31	13	7	20	Steel zinc-pl.	15		ES 18 NAS
G 1/4 m	33	17	9	20	Steel zinc-pl.	19		ES 14 NAS
G 3/8 m	33	19	9	20	Steel zinc-pl.	24		ES 38 NAS
G 1/2 m	36	24	10	20	Steel zinc-pl.	39		ES 12 NAS

Male thread sealing with PVC washers type HPD (© page 212)

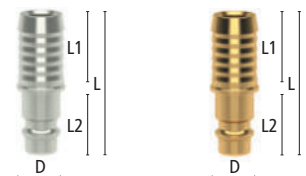
**Plugs with female thread**

Thread connection	L	SW	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
G 1/8 f	31	13	9	20	MS 58	16	ESN 18 NI	ES 18 NI
G 1/4 f	33	17	10	20	MS 58	24	ESN 14 NI	ES 14 NI
G 3/8 f	33	19	10	20	MS 58	23	ESN 38 NI	ES 38 NI
G 1/2 f	35	24	12	20	MS 58	38	ESN 12 NI	ES 12 NI
M 14x1.5 f	33	17	11	20	MS 58	25	NEW! ESN 1415 NI	ES 1415 NI
M 16x1.5 f	33	19	11	20	MS 58	36	NEW! ESN 1615 NI	ES 1615 NI
M 18x1.5 f	35	22	12	20	MS 58	43	NEW! ESN 1815 NI	ES 1815 NI
G 1/8 f	31	13	9	20	Steel zinc-pl.	15		ES 18 NIS
G 1/4 f	33	17	10	20	Steel zinc-pl.	22		ES 14 NIS
G 3/8 f	33	19	10	20	Steel zinc-pl.	21		ES 38 NIS
G 1/2 f	35	24	12	20	Steel zinc-pl.	35		ES 12 NIS

**Plugs with hose barb**

Hose connection	L	D	L1	L2	Material	Weight	Type No. n. plated	Type No. plain
Hose i.D. 4	44	12	22,5	20	MS 58	10	ESN 4 S	ES 4 S
Hose i.D. 6	44	12	24	20	MS 58	14	ESN 6 S	ES 6 S
Hose i.D. 8	44	12	24	20	MS 58	18	ESN 8 S	ES 8 S
Hose i.D. 9	44	12	24	20	MS 58	17	ESN 9 S	ES 9 S
Hose i.D. 10	47	12	26	20	MS 58	21		ES 10 SH*
Hose i.D. 10	44	12	23	20	MS 58	19	ESN 10 S	ES 10 S
Hose i.D. 13	47	15	26	20	MS 58	26		ES 13 SH*
Hose i.D. 13	44	15	23	20	MS 58	24	ESN 13 S	ES 13 S
Hose i.D. 6	44	12	24	20	Steel zinc-pl.	13		ES 6 SS
Hose i.D. 8	44	12	24	20	Steel zinc-pl.	18		ES 8 SS
Hose i.D. 9	44	12	24	20	Steel zinc-pl.	16		ES 9 SS
Hose i.D. 13	44	15	23	20	Steel zinc-pl.	26		ES 13 SS

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



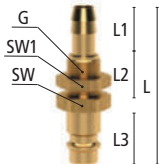
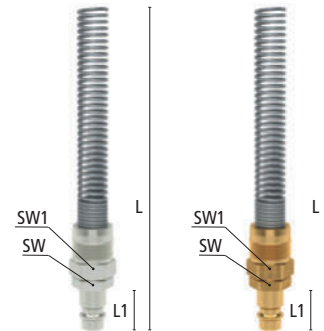
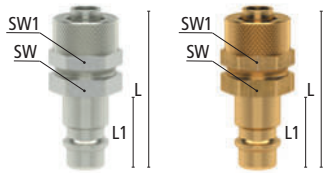
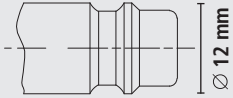
* ES 10 TH and ES 13 TH for the use with quick-fit hoses (e.g. Parker Push-Lock, Gates Lock-on)

Quick Connect Couplings The original

Series ES single shut-off

DN 7.2

Plug Profile (original size)



Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	34	12	20	-	18	ESN 4 SQ	ES 4 SQ
Hose 6x8	34	14	20	-	19	ESN 6 SQ	ES 6 SQ
Hose 8x10	43	17	20	17	38	ESN 8 SQ	ES 8 SQ
Hose 9x12	43	17	20	17	36	ESN 9 SQ	ES 9 SQ

Plugs with squeeze nut and spring guard

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	115	-	20	12	30	ESN 4 SQF	ES 4 SQF
Hose 5x8	115	17	20	14	34	NEW! ESN 58 SQF*	ES 58 SQF*
Hose 6x8	115	-	20	14	37	ESN 6 SQF	ES 6 SQF
Hose 6.5x10	115	17	20	17	48	NEW! ESN 6510 SQF*	ES 6510 SQF*
Hose 8x10	132	17	20	19	83	ESN 8 SQF	ES 8 SQF
Hose 8x12	132	17	20	19	84	NEW! ESN 812 SQF	ES 812 SQF*
Hose 9x12	132	17	20	19	86	ESN 9 SQF	ES 9 SQF

* = 5

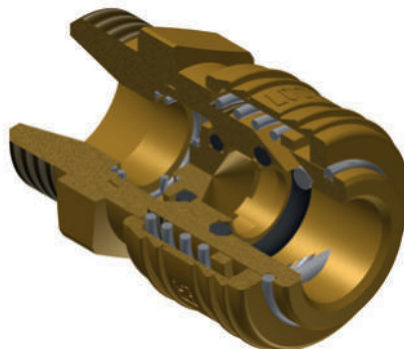
Bulkhead plugs

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 6	56	14	17	14	20	17	M 12x1 m	30	ES 6 SSV
Hose i.D. 8	56	17	17	14	20	17	M 12x1 m	35	ES 8 SSV
Hose i.D. 10	56	17	17	14	20	19	M 14x1 m	42	ES 10 SSV

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Plug System-Adapters

Connection	L	D	L1	L2	DS	DS1	Weight	Type No.
DN 5 - DN 7.2	36	14	20	14	12	9	16	ESM-ES



- Universal one-hand quick connect couplings made of brass MS 58 plain/ nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- Closed sleeve design protects the coupling from dirt
- Adheres to the German Clean Air Act "TA-Luft" for industrial production plants
- **Attention: Couplings can be connected with straight-through plugs DN 7.2. However, double shut-off plugs cannot be connected with standard couplings DN 7.2**
- Several fields of application, above all for liquid media in construction, control technology, switchboard cooling, etc.

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Springs, retaining ring: Stainless steel 1.4310 • Pins: Stainless steel 1.4305

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228	630 l/min	One-hand	Double shut-off	Air / Others	Worldwide	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
NEW! G 1/8 m	40	22	27	9	73	ESN 18 AAB	ES 18 AAB
G 1/4 m	40	22	27	9	73	ESN 14 AAB	ES 14 AAB
G 3/8 m	41	22	27	9	76	ESN 38 AAB	ES 38 AAB
G 1/2 m	41	24	27	10	87	ESN 12 AAB	ES 12 AAB
NEW! M 14x1.5 m	40	22	27	9	78	ESN 1415 AAB	ES 1415 AAB
M 16x1.5 m	40	22	27	9	78	ESN 1615 AAB	ES 1615 AAB
NEW! M 18x1.5 m	40	22	27	9	78	ESN 1815 AAB	ES 1815 AAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
NEW! G 1/8 f	41	22	27	10.5	92	ESN 18 IAB	ES 18 IAB
G 1/4 f	41	22	27	10.5	92	ESN 14 IAB	ES 14 IAB
G 3/8 f	41	22	27	10.5	85	ESN 38 IAB	ES 38 IAB
G 1/2 f	42.5	24	27	12	87	ESN 12 IAB	ES 12 IAB
NEW! M 14x1.5 f	41.5	22	27	11	85	ESN 1415 IAB	ES 1415 IAB
M 16x1.5 f	41.5	22	27	11	85	ESN 1615 IAB	ES 1615 IAB
NEW! M 18x1.5 f	41.5	22	27	11	85	ESN 1815 IAB	ES 1815 IAB

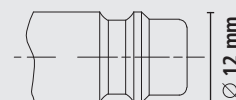
Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
NEW! SLW 6	55	27	25	64	ESN 6 TAB	ES 6 TAB
SLW 8	55	27	25	64	ESN 8 TAB	ES 8 TAB
SLW 9	55	27	25	68	ESN 9 TAB	ES 9 TAB
SLW 10	55	27	25	68	ESN 10 TAB	ES 10 TAB
NEW! SLW 13	55	27	25	75	ESN 13 TAB	ES 13 TAB

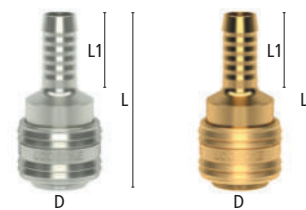
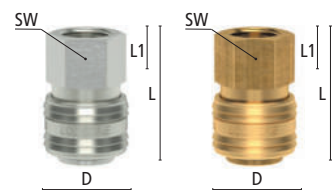
For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

DN 7.2

Plug Profile (original size)



Also in Stainless Steel
Series ESE
Page 298

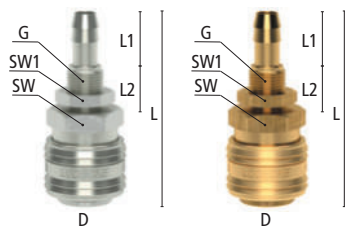
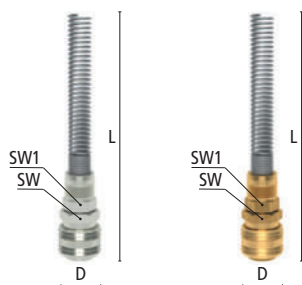
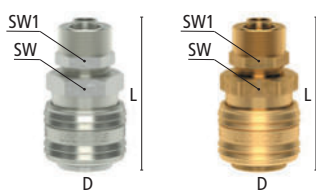
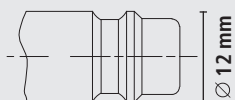


Quick Connect Couplings The original

Series ES double shut-off

DN 7.2

Plug Profile (original size)



Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	44	22	27	12	73	ESN 4 TQAB	ES 4 TQAB
Hose 6x8	44	22	27	14	78	ESN 6 TQAB	ES 6 TQAB
Hose 8x10	48	22	27	17	83	ESN 8 TQAB	ES 8 TQAB
Hose 9x12	48	22	27	17	85	ESN 9 TQAB	ES 9 TQAB

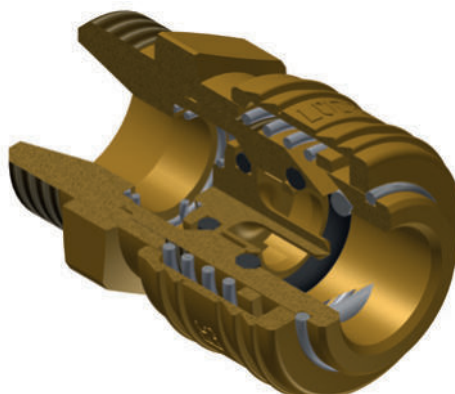
Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	125	22	27	12	85	ESN 4 TQFAB	ES 4 TQFAB
Hose 5x8	130	22	27	14	88	ESN 58 TQFAB	ES 58 TQFAB
Hose 6x8	130	22	27	14	90	ESN 6 TQFAB	ES 6 TQFAB
Hose 6,5x10	130	22	27	17	95	ESN 6510 TQFAB	ES 6510 TQFAB
Hose 8x10	136	22	27	19	120	ESN 8 TQFAB	ES 8 TQFAB
Hose 8x12	140	22	27	19	130	ESN 812 TQFAB	ES 812 TQFAB
Hose 9x12	126	22	27	19	141	ESN 9 TQFAB	ES 9 TQFAB

Bulkhead couplings

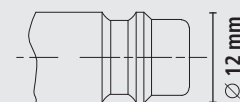
Hose connect.	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. plain
Hose i.D. 6	62	22	27	17	14	17	M 12x1 m	87	ESN 6 TSVAB	ES 6 TSVAB
Hose i.D. 8	62	22	27	17	14	17	M 12x1 m	88	ESN 8 TSVAB	ES 8 TSVAB
Hose i.D. 10	70	22	27	25	14	19	M 14x1 m	90	ESN 10 TSVAB	ES 10 TSVAB

For hose clips type ZOS (☹ page 130), type HS (☹ page 131) or crimping ferrules type LPH (☹ page 133)



DN 7.2

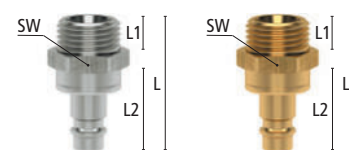
Plug Profile (original size)



Plugs with male thread

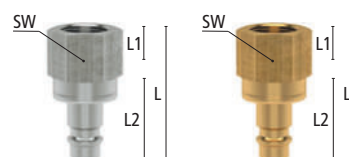
Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
NEW! G 1/8 m	43	22	9	20	45	ESN 18 NAAB	ES 18 NAAB
G 1/4 m	43	22	9	20	45	ESN 14 NAAB	ES 14 NAAB
G 3/8 m	44	22	10	20	48	ESN 38 NAAB	ES 38 NAAB
G 1/2 m	44	24	10	20	60	ESN 12 NAAB	ES 12 NAAB
NEW! M 14x1.5 m	43	22	9	20	46	ESN 1415 NAAB	ES 1415 NAAB
M 16x1.5 m	43	22	9	20	46	ESN 1615 NAAB	ES 1615 NAAB
NEW! M 18x1.5 m	43	22	9	20	46	ESN 1815 NAAB	ES 1815 NAAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)



Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No. n. plated	Type No. plain
NEW! G 1/8 f	44	22	10.5	20	64	ESN 18 NIAB	ES 18 NIAB
G 1/4 f	44	22	10.5	20	64	ESN 14 NIAB	ES 14 NIAB
G 3/8 f	44	22	10.5	20	57	ESN 38 NIAB	ES 38 NIAB
G 1/2 f	44.5	24	12	20	62	ESN 12 NIAB	ES 12 NIAB
NEW! M 14x1.5 f	43.5	22	11	20	60	ESN 1415 NIAB	ES 1415 NIAB
M 16x1.5 f	43.5	22	11	20	60	ESN 1615 NIAB	ES 1615 NIAB
NEW! M 18x1.5 f	43.5	22	11	20	60	ESN 1815 NIAB	ES 1815 NIAB



Plugs with hose barb

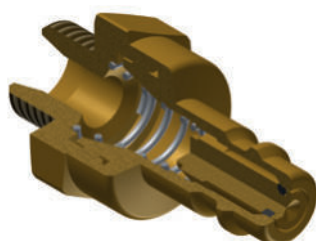
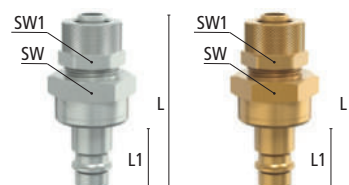
Hose connection	L	L1	L2	Weight	Type No. n. plated	Type No. plain
NEW! Hose i.D. 4	58	25	20	34	ESN 4 SAB	ES 4 SAB
Hose i.D. 6	58	25	20	34	ESN 6 SAB	ES 6 SAB
NEW! Hose i.D. 8	58	25	20	34	ESN 8 SAB	ES 8 SAB
Hose i.D. 9	58	25	20	38	ESN 9 SAB	ES 9 SAB
NEW! Hose i.D. 10	58	25	20	44	ESN 10 SAB	ES 10 SAB
Hose i.D. 13	58	25	20	44	ESN 13 SAB	ES 13 SAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Plug with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No. n. plated	Type No. plain
NEW! Hose 4x6	34	12	20	-	18	ESN 4 SQAB	ES 4 SQAB
Hose 6x8	34	14	20	-	19	ESN 6 SQAB	ES 6 SQAB
Hose 8x10	43	17	20	17	38	ESN 8 SQAB	ES 8 SQAB
Hose 9x12	43	17	20	17	36	ESN 9 SQAB	ES 9 SQAB

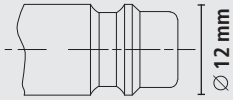


Quick Connect Couplings The original

Series ES straight-through

DN 7.2

Plug Profile (original size)



Also in Stainless Steel
Series ESE
Page 300

- Universal one-hand-quick connect couplings made of brass MS 58 plain/ nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ES DN 7.2 with straight-through passage (page 45)
- Suitable for low vacuum at low couple force compared to all other compatible products
- Closed sleeve design protects the coupling from dirt
- For compressed air supply in industry, handcrafts, hobby as well as for water and other media

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain/ nickel-plated or steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228/ DIN 13	2150 l/min	One-hand	straight-through	Air / Others	Worldwide	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 m	40	22	27	9	73	ESN 18 AO	ES 18 AO
G 1/4 m	40	22	27	9	73	ESN 14 AO	ES 14 AO
G 3/8 m	41	22	27	9	76	ESN 38 AO	ES 38 AO
G 1/2 m	41	24	27	10	87	ESN 12 AO	ES 12 AO
M 14x1.5 m	40	22	27	9	73	ESN 1415 AO	ES 1415 AO
M 16x1.5 m	41	22	27	9	76	ESN 1615 AO	ES 1615 AO
M 18x1.5 m	41	22	27	9	76	ESN 1815 AO	ES 1815 AO

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n. plated	Type No. plain
G 1/8 f	41	22	27	10.5	92	ESN 18 IO	ES 18 IO
G 1/4 f	41	22	27	10.5	92	ESN 14 IO	ES 14 IO
G 3/8 f	41	22	27	10.5	85	ESN 38 IO	ES 38 IO
G 1/2 f	42.5	24	27	12	87	ESN 12 IO	ES 12 IO
M 14x1.5 f	41.5	22	27	12	87	ESN 1415 IO	ES 1415 IO
M 16x1.5 f	41.5	22	27	12	87	ESN 1615 IO	ES 1615 IO
M 18x1.5 f	41.5	22	27	12	87	ESN 1815 IO	ES 1815 IO

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. n. plated	Type No. plain
Hose i.D. 6	55	27	25	64	ESN 6 TO	ES 6 TO
Hose i.D. 8	55	27	25	64	ESN 8 TO	ES 8 TO
Hose i.D. 9	55	27	25	68	ESN 9 TO	ES 9 TO
Hose i.D. 10	55	27	25	68	ESN 10 TO	ES 10 TO
Hose i.D. 13	55	27	25	75	ESN 13 TO	ES 13 TO

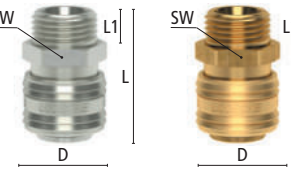
For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Couplings with squeeze nut

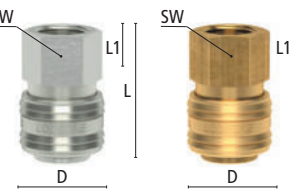
Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	44	22	27	12	73	ESN 4 TQO	ES 4 TQO
Hose 6x8	44	22	27	14	78	ESN 6 TQO	ES 6 TQO
Hose 8x10	48	22	27	17	83	ESN 8 TQO	ES 8 TQO
Hose 9x12	48	22	27	17	85	ESN 9 TQO	ES 9 TQO

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No. n. plated	Type No. plain
Hose 4x6	125	22	27	12	85	ESN 4 TQFO	ES 4 TQFO
Hose 5x8	130	22	27	14	88	ESN 58 TQFO	ES 58 TQFO
Hose 6x8	130	22	27	14	90	ESN 6 TQFO	ES 6 TQFO
Hose 6,5x10	130	22	27	17	95	ESN 6510 TQFO	ES 6510 TQFO
Hose 8x10	136	22	27	19	120	ESN 8 TQFO	ES 8 TQFO
Hose 8x12	140	22	27	19	130	ESN 812 TQFO	ES 812 TQFO
Hose 9x12	126	22	27	19	141	ESN 9 TQFO	ES 9 TQFO



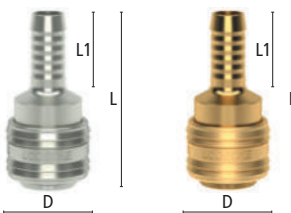
NEW!



NEW!

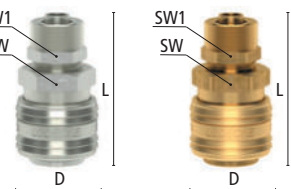
NEW!

NEW!

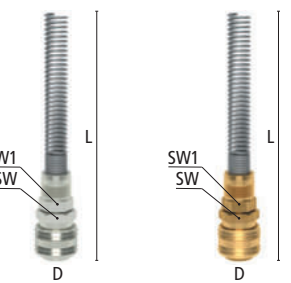


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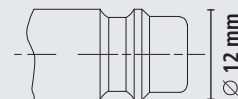
The original

Quick Connect Couplings

straight-through **Series ES**

DN 7.2

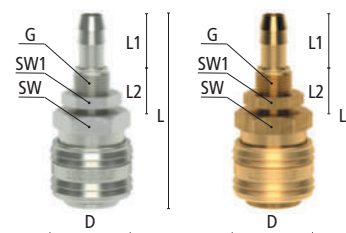
Plug Profile (original size)



Bulkhead coupling

Hose connect.	L	SW	D	L1	L2	SW1	G	Weight	Type No. n. plated	Type No. MS plain
Hose i.D. 6	62	22	27	17	14	17	M 12x1 a	87	ESN 6 TSVO	ES 6 TSVO
Hose i.D. 8	62	22	27	17	14	17	M 12x1 a	88	ESN 8 TSVO	ES 8 TSVO
Hose i.D. 10	70	22	27	25	14	19	M 14x1 a	90	ESN 10 TSVO	ES 10 TSVO

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Manifolds for Quick Connect Couplings

made of brass MS 58

- Manifolds for quick connect couplings made of brass MS 58 plain
- Available as 3-way manifold/ 4-way manifold with female thread or 3-way manifold/ 4-way manifold with quick connect couplings DN 7,2 (page 124)
- [For the distribution of compressed air from a central extraction point](#)

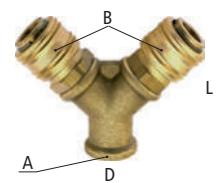
Materials

- Manifold and quick connect coupling: Brass MS 58 plain

Max. Working Pressure	Temperature	Media
PN 35 bar	-20°C – +100°C	Air / Others

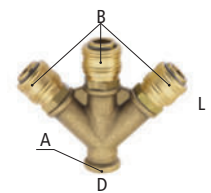
3-way manifolds with one-hand quick connect couplings DN 7.2 assembled

Inlet (A)	Outlet (B)	L	D	Passage		Weight	Type No.
G 3/8 f	2 x ES 38 A	67	26	7.2	1	241	DWS 38 ES
G 1/2 f	2 x ES 12 A	69	27.5	7.2	1	275	DWS 12 ES



4-way manifolds with one-hand quick connect couplings DN 7.2 assembled

Inlet (A)	Outlet (B)	L	D	Passage		Weight	Type No.
G 3/8 f	3 x ES 38 A	92	26	7.2	1	417	VWS 38 ES
G 1/2 f	3 x ES 12 A	91	27.5	7.2	1	435	VWS 12 ES



OptiFlow-Line

Energy-Efficient Quick Connect Couplings



Compressed air - an expensive media?

Despite many advantages, compressed air has a reputation for being a costly media – in many cases, this is not true. When using the right components, an energy-efficient operation is possible.

Energy performance is reduced by the following:

- Standard valves with large surface area
- Too small dimensioned hose or tubing
- Too small dimensioned connections
- Insufficient capacity in networks or compressed air systems
- Excess humidity

This leads to:

- High pressure drop
- High energy consumption of compressor
- Reduced productivity
- Damages to systems/ tools

The **LUDECKE OptiFlow-Line** offers energy-optimised coupling systems which achieve higher flow rates and significantly reduce energy consumption. This in turn leads to decreasing energy costs as well as increasing durability and lifetime of machines and tools.

By continuously improving our development and production processes, we ensure that our quick connect couplings are permanently revised and performance optimised. In this way, we guarantee sustainable and efficient operation.

Find out more about the **LUDECKE** sustainability strategies in our Green Company Report (www.ludecke.com).

LUDECKE OptiFlow-Line

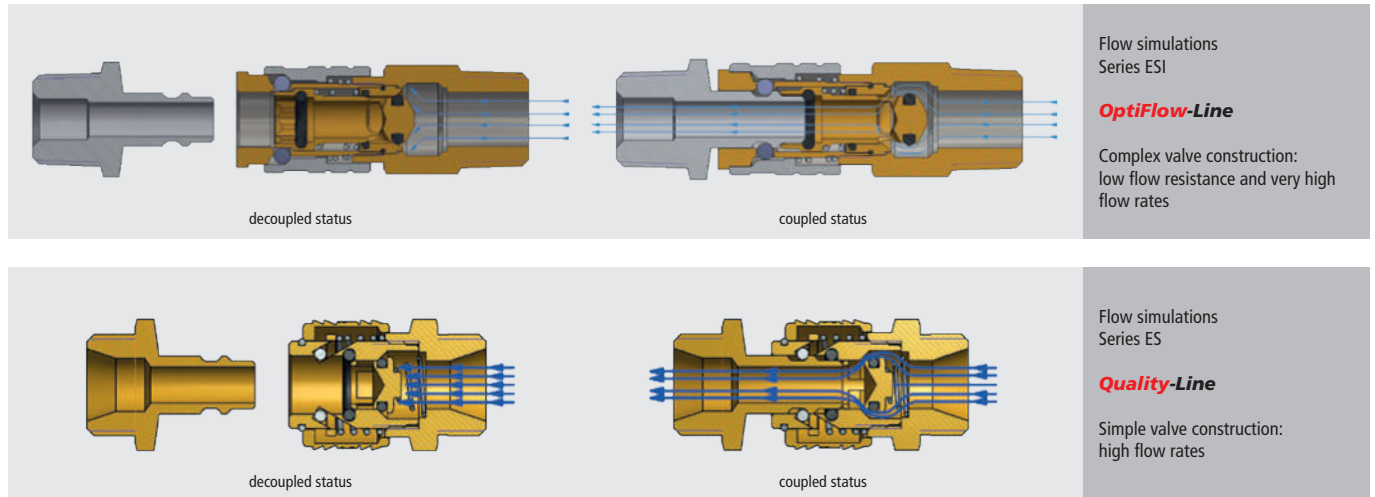
- Patented OptiFlow by **LUDECKE**® valve technology
- Extremely high flow rates
- Low pressure drop
- High durability
- Great operational safety and best sealing characteristics

**Opti
Flow**
by **LUDECKE**



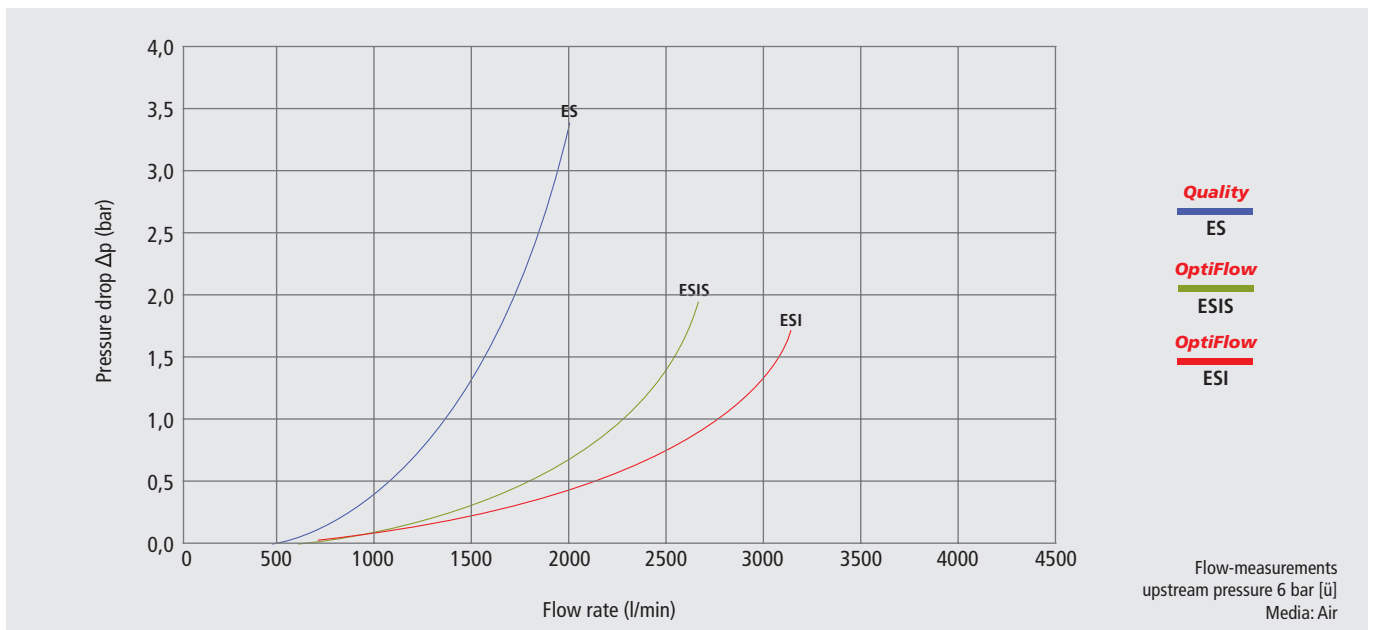
Flow Simulation - Comparison

The products of the **LUDECKE OptiFlow-Line** have a valve with optimised geometry for higher flow rates.



Comparison Chart of Flow Rates

The flow rates of the **LUDECKE OptiFlow-Line** (in comparison to the **Quality-Line**) are summarized in the following chart.



Different Sizes and Versions

The **LUDECKE OptiFlow-Line** is made up of different series.

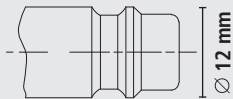
Industrial Quick Connect Couplings		Industrial Quick Connect Couplings	Safety Quick Connect Couplings				
Series: ESI DN 7.8	Series: ESIG DN 10	Series: ESG DN 19	Series: ESIK DN 7.8	Series: ESI DN 7.8	Series: ESIK DN 7.8	Series: ESI1A DN 7.4 ESI2A DN 7.4	Series: ESIFK DN 7.8

Industrial Quick Connect Couplings

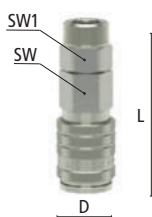
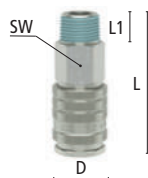
Series ESI single shut-off

DN 7.8

Plug Profile (original size)



Also in Stainless Steel
Series ESIE
Page 301



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Collar version: protection for valve body
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcrafts, we recommend direct use at tool
- Also interchangeable with plug profile ES DN 7.2

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other sealing materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228/DIN EN 10226	2000 l/min	One-hand	Single shut-off	Air/Others	Europe	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	60	19	24	11	98	ESI 14 A
R 3/8 m	61	19	24	12	97	ESI 38 A
R 1/2 m	64	22	24	15	114	ESI 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	19	24	10	116	ESI 14 I
G 3/8 f	56	19	24	10	107	ESI 38 I
G 1/2 f	58	24	24	12	125	ESI 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73	19	24	25	95	ESI 6 T
Hose i.D. 8	73	19	24	25	97	ESI 8 T
Hose i.D. 9	73	19	24	25	98	ESI 9 T
Hose i.D. 10	73	19	24	25	97	ESI 10 T
Hose i.D. 13	73	19	24	25	101	ESI 13 T

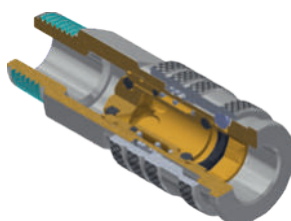
For hose clips type ZOS (⊗ page 130), type HS (⊗ page 131) or crimping ferrules type LPH (⊗ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	64	19	24	14	110	ESI 58 TQ
Hose 6x8	64	19	24	14	110	ESI 6 TQ
Hose 6.5x10	69	19	24	17	126	ESI 6510 TQ
Hose 8x10	69	19	24	19	134	ESI 8 TQ
Hose 8x12	68	19	24	19	129	ESI 812 TQ
Hose 9x13	70	19	24	19	130	ESI 913 TQ

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	150	19	24	14	124	ESI 58 TQF
Hose 6x8	150	19	24	14	123	ESI 6 TQF
Hose 6.5x10	170	19	24	17	152	ESI 6510 TQF
Hose 8x10	170	19	24	19	162	ESI 8 TQF
Hose 8x12	144	19	24	19	156	ESI 812 TQF
Hose 9x13	170	19	24	19	162	ESI 913 TQF



OptiFlow
by **LUDECKE**

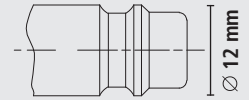


Industrial Quick Connect Couplings

single shut-off **Series ESI**

DN 7.8

Plug Profile (original size)



Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	33	13	9	20	14	ESI 18 NARS
R 1/4 m	35	14	11	20	18	ESI 14 NARS
R 3/8 m	36	17	12	20	23	ESI 38 NARS
R 1/2 m	40	22	15	20	47	ESI 12 NARS

Plugs with parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	33	13	9	20	14	ESI 18 NAS
G 1/4 m	35	14	11	20	18	ESI 14 NAS
G 3/8 m	36	17	12	20	23	ESI 38 NAS
G 1/2 m	40	22	15	20	47	ESI 12 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	32	13	9	20	16	ESI 18 NIS
G 1/4 f	33	17	10	20	24	ESI 14 NIS
G 3/8 f	33	19	10	20	25	ESI 38 NIS
G 1/2 f	35	24	12	20	40	ESI 12 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	44	12	24	20	13	ESI 6 SS
Hose i.D. 8	44	12	24	20	18	ESI 8 SS
Hose i.D. 9	44	12	24	20	16	ESI 9 SS
Hose i.D. 10	44	12	24	20	18	ESI 10 SS
Hose i.D. 13	44	15	23	20	26	ESI 13 SS

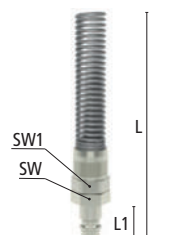
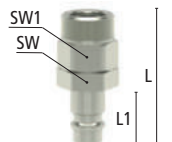
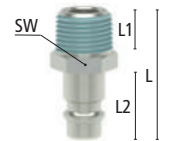
For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No.
Hose 5x8	40	14	20	14	29	ESI 58 SQ
Hose 6x8	40	14	20	14	29	ESI 6 SQ
Hose 6.5x10	44	17	20	17	45	ESI 6510 SQ
Hose 8x10	44	19	20	19	55	ESI 8 SQ
Hose 8x12	46	19	20	19	57	ESI 812 SQ
Hose 9x13	44	19	20	19	50	ESI 913 SQ

Plugs with squeeze nut and spring guard

Hose connection	L	SW	L1	SW1	Weight	Type No.
Hose 5x8	126	14	20	14	42	ESI 58 SQF
Hose 6x8	127	14	20	14	42	ESI 6 SQF
Hose 6.5x10	145	17	20	17	71	ESI 6510 SQF
Hose 8x10	121	19	20	19	79	ESI 8 SQF
Hose 8x12	123	19	20	19	84	ESI 812 SQF
Hose 9x13	146	19	20	19	83	ESI 913 SQF



Opti®
Flow
by LUDECKE

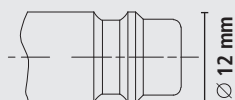


Industrial Quick Connect Couplings

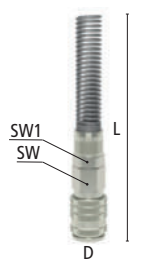
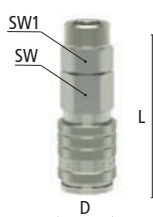
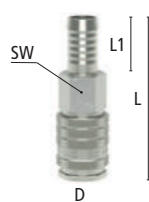
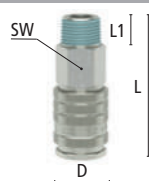
Series ESI double shut-off

DN 7.8

Plug Profile (original size)



Also in Stainless Steel
Series ESIE
Page 302



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Collar version: protection for valve body
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- **Attention: Couplings can be connected with straight-through plugs DN 7.8. However, double shut-off plugs cannot be connected with standard couplings DN 7.8**
- For compressed air supply in industry and handcrafts, we recommend direct use at tool
- Also interchangeable with plug profile ES DN 7.2

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228/DIN EN 10226	670 l/min	One-hand	Double shut-off	Air/Others	Europe	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	60	19	24	11	98	ESI 14 AAB
R 3/8 m	61	19	24	12	97	ESI 38 AAB
R 1/2 m	64	22	24	15	114	ESI 12 AAB

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	19	24	10	116	ESI 14 IAB
G 3/8 f	56	19	24	10	107	ESI 38 IAB
G 1/2 f	58	24	24	12	125	ESI 12 IAB

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73	19	24	25	95	ESI 6 TAB
Hose i.D. 8	73	19	24	25	97	ESI 8 TAB
Hose i.D. 9	73	19	24	25	98	ESI 9 TAB
Hose i.D. 10	73	19	24	25	97	ESI 10 TAB
Hose i.D. 13	73	19	24	25	101	ESI 13 TAB

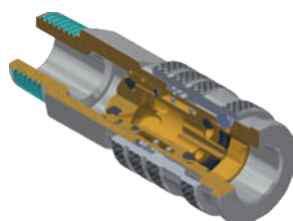
For hose clips type ZOS (⊗ page 130), type HS (⊗ page 131) or crimping ferrules type LPH (⊗ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	64	19	24	14	110	ESI 58 TQAB
Hose 6x8	64	19	24	14	110	ESI 6 TQAB
Hose 6.5x10	69	19	24	17	126	ESI 6510 TQAB
Hose 8x10	69	19	24	19	134	ESI 8 TQAB
Hose 8x12	68	19	24	19	129	ESI 812 TQAB
Hose 9x13	70	19	24	19	130	ESI 913 TQAB

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	150	19	24	14	124	ESI 58 TQFAB
Hose 6x8	150	19	24	14	123	ESI 6 TQFAB
Hose 6.5x10	170	19	24	17	152	ESI 6510 TQFAB
Hose 8x10	170	19	24	19	162	ESI 8 TQFAB
Hose 8x12	144	19	24	19	156	ESI 812 TQFAB
Hose 9x13	170	19	24	19	162	ESI 913 TQFAB

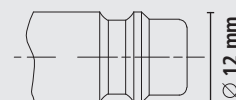


Industrial Quick Connect Couplings

double shut-off **Series ESI**

DN 7.8

Plug Profile (original size)



NEW!

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	43	22	9	20	45	ESN 18 NAAB
G 1/4 m	43	22	9	20	45	ESN 14 NAAB
G 3/8 m	44	22	10	20	48	ESN 38 NAAB
G 1/2 m	44	24	10	20	60	ESN 12 NAAB
M 14x1.5 m	43	22	9	20	46	ESN 1415 NAAB
M 16x1.5 m	43	22	9	20	46	ESN 1615 NAAB
M 18x1.5 m	43	22	9	20	46	ESN 1815 NAAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)



NEW!

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	44	22	10.5	20	64	ESN 18 NIAB
G 1/4 f	44	22	10.5	20	64	ESN 14 NIAB
G 3/8 f	44	22	10.5	20	57	ESN 38 NIAB
G 1/2 f	44.5	24	12	20	62	ESN 12 NIAB
M 14x1.5 f	43.5	22	11	20	60	ESN 1415 NIAB
M 16x1.5 f	43.5	22	11	20	60	ESN 1615 NIAB
M 18x1.5 f	43.5	22	11	20	60	ESN 1815 NIAB



Plugs with hose barb

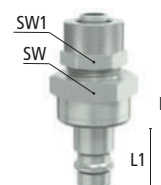
Hose connection	L	L1	L2	Weight	Type No.
Hose i.D. 4	58	25	20	34	ESN 4 SAB
Hose i.D. 6	58	25	20	34	ESN 6 SAB
Hose i.D. 8	58	25	20	34	ESN 8 SAB
Hose i.D. 9	58	25	20	38	ESN 9 SAB
Hose i.D. 10	58	25	20	44	ESN 10 SAB
Hose i.D. 13	58	25	20	44	ESN 13 SAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No.
Hose 4x6	34	12	20	-	18	ESN 4 SQAB
Hose 6x8	34	14	20	-	19	ESN 6 SQAB
Hose 8x10	43	17	20	17	38	ESN 8 SQAB
Hose 9x12	43	17	20	17	36	ESN 9 SQAB

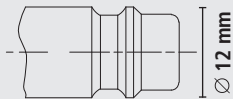


Industrial Quick Connect Couplings

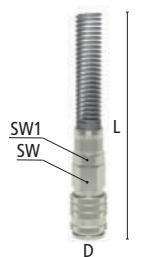
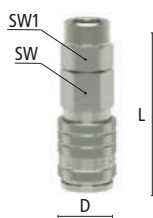
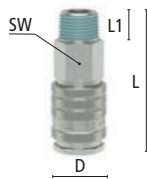
Series ESI straight-through

DN 7.8

Plug Profile (original size)



Also in Stainless Steel
Series ESIE
Page 303



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESI DN 7.8 with straight-through passage (page 55)
- Collar version: protection for valve body
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcrafts, we recommend direct use at tool
- Also interchangeable with plug profile ES DN 7.2

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7,8	ISO 228/DIN EN 10226	2800 l/min	One-hand	Straight-through	Air/Others	Europe	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	60	19	24	11	98	ESI 14 AO
R 3/8 m	61	19	24	12	97	ESI 38 AO
R 1/2 m	64	22	24	15	114	ESI 12 AO

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	19	24	10	116	ESI 14 IO
G 3/8 f	56	19	24	10	107	ESI 38 IO
G 1/2 f	58	24	24	12	125	ESI 12 IO

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73	19	24	25	95	ESI 6 TO
Hose i.D. 8	73	19	24	25	97	ESI 8 TO
Hose i.D. 9	73	19	24	25	98	ESI 9 TO
Hose i.D. 10	73	19	24	25	97	ESI 10 TO
Hose i.D. 13	73	19	24	25	101	ESI 13 TO

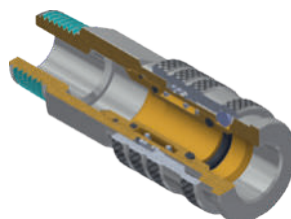
For hose clips type ZOS (⊗ page 130), type HS (⊗ page 131) or crimping ferrules type LPH (⊗ page 133)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	64	19	24	14	110	ESI 58 TQO
Hose 6x8	64	19	24	14	110	ESI 6 TQO
Hose 6.5x10	69	19	24	17	126	ESI 6510 TQO
Hose 8x10	69	19	24	19	134	ESI 8 TQO
Hose 8x12	68	19	24	19	129	ESI 812 TQO
Hose 9x13	70	19	24	19	130	ESI 913 TQO

Couplings with squeeze nut and spring guard

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 5x8	150	19	24	14	124	ESI 58 TQFO
Hose 6x8	150	19	24	14	123	ESI 6 TQFO
Hose 6.5x10	170	19	24	17	152	ESI 6510 TQFO
Hose 8x10	170	19	24	19	162	ESI 8 TQFO
Hose 8x12	144	19	24	19	156	ESI 812 TQFO
Hose 9x13	170	19	24	19	162	ESI 913 TQFO



Industrial Quick Connect Couplings

single shut-off **Series ESIG**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcrafts at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN EN 10226	3200 l/min	One-hand	Single shut-off	Air/Others	Europe	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	63	24	27	12	135	ESIG 14 A
R 3/8 m	63	24	27	12	143	ESIG 38 A
R 1/2 m	65	24	27	17	147	ESIG 12 A
R 3/4 m	65	27	27	17	155	ESIG 34 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	24	27	10	136	ESIG 14 I
G 3/8 f	56	24	27	11	145	ESIG 38 I
G 1/2 f	56	24	27	12	135	ESIG 12 I
G 3/4 f	60	32	27	16	200	ESIG 34 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	76	24	27	25	150	ESIG 9 T
Hose i.D. 10	76	24	27	25	150	ESIG 10 T
Hose i.D. 13	76	24	27	25	152	ESIG 13 T
Hose i.D. 16	76	24	27	25	152	ESIG 16 T
Hose i.D. 19	76	24	27	25	160	ESIG 19 T

For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	40	17	12	21	30	ESIG 14 NAS
R 3/8 m	40	17	12	21	32	ESIG 38 NAS
R 1/2 m	45	22	17	21	35	ESIG 12 NAS
R 3/4 m	48	27	19	21	37	ESIG 34 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	34	17	10	21	36	ESIG 14 NIS
G 3/8 f	34	19	11	21	42	ESIG 38 NIS
G 1/2 f	37	24	12	21	41	ESIG 12 NIS
G 3/4 f	42	32	16	21	43	ESIG 34 NIS

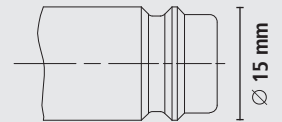
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 9	48	15	25	21	24	ESIG 9 SS
Hose i.D. 10	48	15	25	21	24	ESIG 10 SS
Hose i.D. 13	48	15	25	21	28	ESIG 13 SS
Hose i.D. 16	48	20	25	21	30	ESIG 16 SS
Hose i.D. 19	48	24	25	21	35	ESIG 19 SS

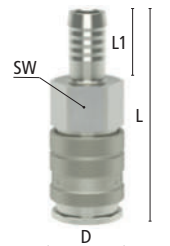
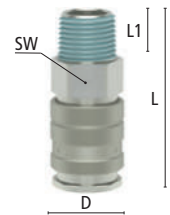
For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

DN 10

Plug Profile (original size)



Also in Stainless Steel
Series ESIGE
Page 304



Opti®
Flow
by **LUDECKE**

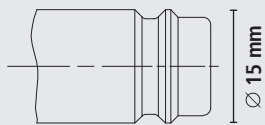


Industrial Quick Connect Couplings

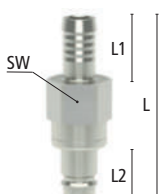
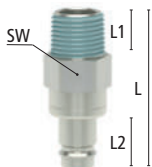
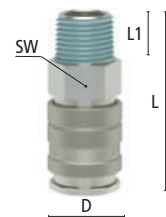
Series ESIG double shut-off

DN 10

Plug Profile (original size)



Also in Stainless Steel
Series ESIGE
Page 305



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- Attention: Couplings can be connected with straight-through plugs DN 10. However, double shut-off plugs cannot be connected with standard couplings DN 10
- Several fields of application, above all for liquid media in construction, control technology, switchboard cooling etc.
- Adheres to the German Clean Air Act "TA-Luft" for industrial production plants

Materials

- Body, valve body, valve: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve: Steel hardened and nickel-plated
- O-rings: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN EN 10226	1070 l/min	One-hand	Double shut-off	Air/Others	Europe	Coupl.5/Plug10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	63	24	27	12	135	ESIG 14 AAB
R 3/8 m	63	24	27	12	143	ESIG 38 AAB
R 1/2 m	65	24	27	17	147	ESIG 12 AAB
R 3/4 m	65	27	27	17	155	ESIG 34 AAB

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	24	27	11	136	ESIG 14 IAB
G 3/8 f	56	24	27	11	145	ESIG 38 IAB
G 1/2 f	56	24	27	12	135	ESIG 12 IAB
G 3/4 f	60	32	27	16	200	ESIG 34 IAB

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	76	24	27	25	150	ESIG 9 TAB
Hose i.D. 10	76	24	27	25	150	ESIG 10 TAB
Hose i.D. 13	76	24	27	25	152	ESIG 13 TAB
Hose i.D. 16	76	24	27	25	152	ESIG 16 TAB
Hose i.D. 19	76	24	27	25	160	ESIG 19 TAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 3/8 m	61	24	12	21	105	ESIG 38 NAAB
R 1/2 m	63	24	17	21	108	ESIG 12 NAAB
R 3/4 m	63	27	17	21	115	ESIG 34 NAAB

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	55	24	11	21	120	ESIG 38 NIAB
G 1/2 f	55	24	12	21	140	ESIG 12 NIAB
G 3/4 f	59	32	16	21	150	ESIG 34 NIAB

Plugs with hose barb

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 9	74	24	25	21	110	ESIG 9 SAB
Hose i.D. 10	74	24	25	21	110	ESIG 10 SAB
Hose i.D. 13	74	24	25	21	110	ESIG 13 SAB
Hose i.D. 16	74	24	25	21	120	ESIG 16 SAB
Hose i.D. 19	74	24	25	21	120	ESIG 19 SAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Industrial Quick Connect Couplings

straight-through **Series ESIG**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESIG DN 10 with straight-through passage (page 59)
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcraft at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN EN 10226	4000 l/min	One-hand	Straight-through	Air/Others	Europe	Coupl.5/Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	63	24	27	12	135	ESIG 14 AO
R 3/8 m	63	24	27	12	143	ESIG 38 AO
R 1/2 m	65	24	27	17	147	ESIG 12 AO
R 3/4 m	65	27	27	17	155	ESIG 34 AO

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	24	27	10	136	ESIG 14 IO
G 3/8 f	56	24	27	11	145	ESIG 38 IO
G 1/2 f	56	24	27	12	135	ESIG 12 IO
G 3/4 f	60	32	27	16	200	ESIG 34 IO

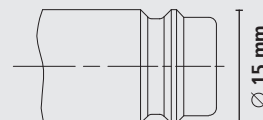
Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	76	24	27	25	150	ESIG 9 TO
Hose i.D. 10	76	24	27	25	150	ESIG 10 TO
Hose i.D. 13	76	24	27	25	152	ESIG 13 TO
Hose i.D. 16	76	24	27	25	152	ESIG 16 TO
Hose i.D. 19	76	24	27	25	160	ESIG 19 TO

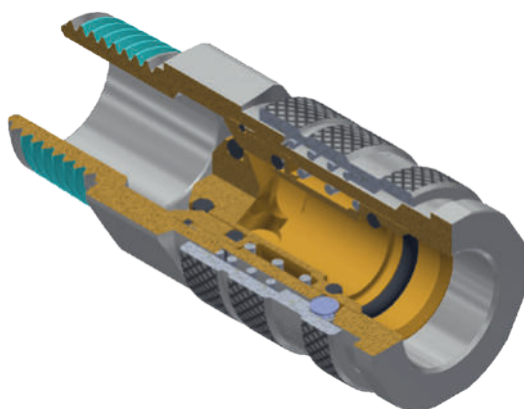
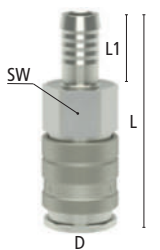
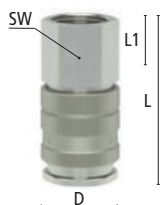
For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

DN 10

Plug Profile (original size)



Also in Stainless Steel
Series ESIGE
Page 306



OptiFlow
by **LUDECKE**

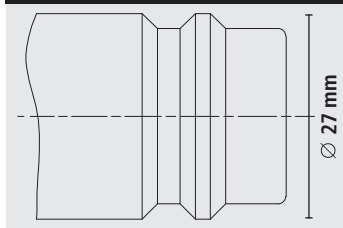


Industrial Quick Connect Couplings

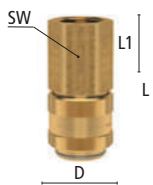
Series ESG single and double shut-off

DN 19

Plug Profile (original size)



Also in Stainless Steel
Series ESGE
Page 307/ 308



- Top-quality, extreme robust one-hand quick connect couplings for compressed air and liquid media
- Maximum flow rates with low pressure drop for large tools or for applications with high-volume media flow paired with shut-off functionality through one-hand operation
- Couplings with straight-through passage on request
- Couplings are suitable for shut-off plugs (Please note: Valve construction designed for media flow from coupling to plug)
- For compressed air supply in industry and handcrafts at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction
- Adheres to the German Clean Air Act "TA-Luft" for industrial production plants

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	19	ISO 228	8000 l/min/single/2650 l/min double	One-hand	single / double shut-off	Air/Others	Europe	Coupl. 1 / Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Type of valve	Weight	Type No.
G 3/4 m	95	41	46	16	shut-off	650	ESG 34 AAB
G 1 m	98	41	46	19	shut-off	620	ESG 10 AAB
G 1 1/4 m	98	46	46	19	shut-off	745	ESG 54 AAB

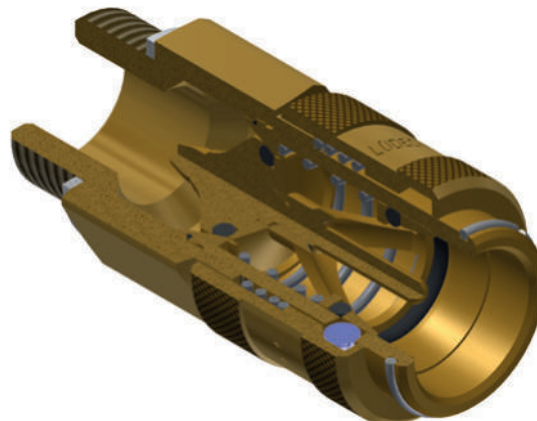
Couplings with female thread

Thread connection	L	SW	D	L1	Type of valve	Weight	Type No.
G 3/4 m	99	41	46	20	shut-off	740	ESG 34 IAB
G 1 m	100	41	46	22	shut-off	650	ESG 10 IAB
G 1 1/4 m	105	50	46	22	shut-off	700	ESG 54 IAB

Couplings with hose barb

Hose connection	L	SW	D	L1	Type of valve	Weight	Type No.
Hose i.D. 19	115	41	46	36	shut-off	600	ESG 19 TAB
Hose i.D. 25	125	41	46	48	shut-off	683	ESG 25 TAB

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

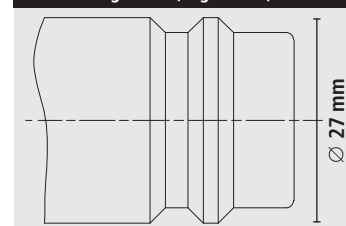


Industrial Quick Connect Couplings

single and double shut-off **Series ESG**

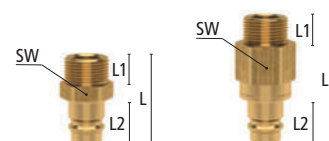
DN 19

Plug Profile (original size)



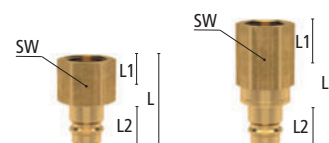
Plugs with male thread

Thread connection	L	SW	L1	L2	Type of valve	Weight	Type No.
G 3/4 m	60	30	16	34	straight-through	160	ESG 34 NA
G 1 m	65	36	19	34	straight-through	200	ESG 10 NA
G 1 1/4 m	68	46	19	34	straight-through	350	ESG 54 NA
G 3/4 m	92	41	16	34	shut-off	320	ESG 34 NAAB
G 1 m	95	41	19	34	shut-off	410	ESG 10 NAAB
G 1 1/4 m	95	46	19	34	shut-off	500	ESG 54 NAAB



Plugs with female thread

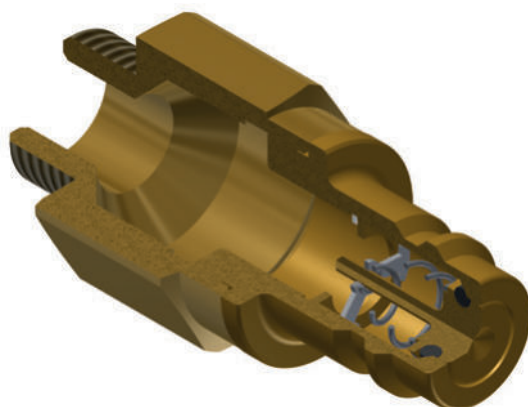
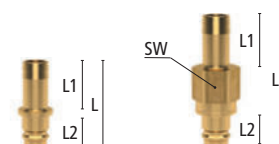
Thread connection	L	SW	L1	L2	Type of valve	Weight	Type No.
G 3/4 f	58	32	16	34	straight-through	160	ESG 34 NI
G 1 f	68	41	19	34	straight-through	300	ESG 10 NI
G 1 1/4 f	70	50	19	34	straight-through	410	ESG 54 NI
G 3/4 f	97	41	20	34	shut-off	430	ESG 34 NIAB
G 1 f	97	41	22	34	shut-off	450	ESG 10 NIAB
G 1 1/4 f	102	50	22	34	shut-off	540	ESG 54 NIAB



Plugs with hose barb

Hose connection	L	SW	L1	L2	Type of valve	Weight	Type No.
Hose i.D. 19	75	-	36	34	straight-through	154	ESG 19 S
Hose i.D. 25	87	-	48	34	straight-through	185	ESG 25 S
Hose i.D. 19	117	41	36	34	shut-off	430	ESG 19 SAB
Hose i.D. 25	127	41	48	34	shut-off	460	ESG 25 SAB

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



SafeConnect-Line

Quick Connect Couplings for High-Safety Standards

Compressed air is a media with great potential risks. In case of improper use and when safety regulations are not being followed, huge forces can be released and put the operator in a dangerous situation.



Whiplash-effect: high risk of injury when using compressed air - avoided through products from the **LUDECKE SafeConnect-Line**.

Common problems:

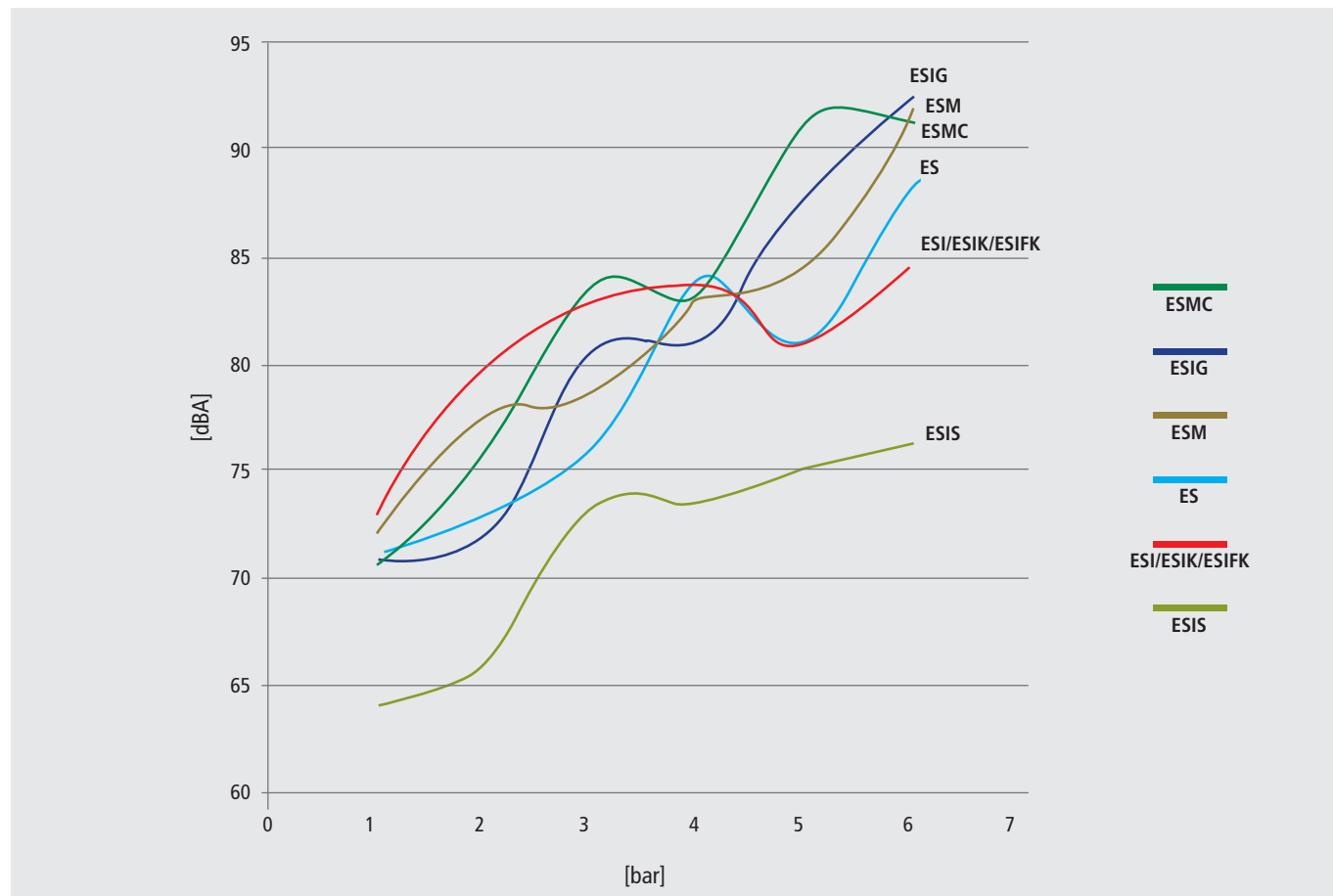
- Accidental disconnection of the couplings leading uncoupled flexible hose lines to whip uncontrollably under pressure (whiplash-effect),
- Unnecessary stress caused by high noise levels when decoupling as well as
- False coupling while using different media simultaneously



The **LUDECKE SafeConnect-Line** offers various coupling systems with a reliable protection against these problems. This is how we guarantee maximum reliability and safety at work.








Noise Levels of Different Quick Connect Coupling Series When Decoupling

The ESIS series can be decoupled in a pressure range from 1 to 6 bar at a noise level with less than 80 db(A). Non-venting couplings exceed this noise level at an operating pressure of 4 bar. In this case, we strongly recommend using ear protection.



Different Sizes and Versions

The products of the **LUDECKE SafeConnect-Line** are available in different sizes, connection and valve types as well as materials.

Quick Connect Couplings with Self-Venting	Quick Connect Couplings with Sleeve Lock Mechanism				Quick Connect Couplings with Visual Identification	
Pressure relief and anti-hose whip reduce noise levels and prevent whiplash-effect	Various security mechanisms prevent accidental disconnection of the coupling				Colour and shape coded couplings and plugs prevent false coupling	
Sleeve concept	Locking nut	Locking nut	Locking nut + plug coding	Two-hand operation	Plug and colour coding	Plug and colour coding
Series: ESIS DN 7.8	Series: ES DN 7.2	Series: ESI DN 7.8	Series: ESIK DN 7.8	Series: ESI1A DN 7.4 ESI2A DN 7.4	Series: ESMK DN 5	Series: ESIFK DN 7.8
						

Self-Venting



Quick connect couplings with self-venting prevent the whiplash-effect due to their special construction and at the same time reduce noise levels when decoupling.

The series ESIS DN 7.8 is disconnected in two steps by pushing and pulling the sleeve (sleeve concept). This means the connection may only be separated when the residual pressure has dropped to a safe value after having pushed the sleeve of the coupling.



One-hand operation: To connect, push the plug into the coupling



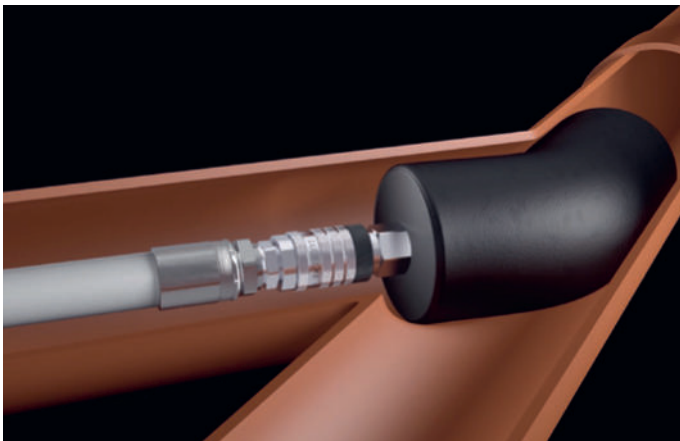
Disconnection - first step: Automatic venting



Disconnection - second step: Safe decoupling

Sleeve Lock Mechanism

Locking Nut



The quick connect couplings with sleeve lock mechanism via locking nut offer simple and effective protection against unintentional disconnection. To set up, the locking nut needs to be screwed manually against the sleeve after coupling.

Moreover, the series ESIK has coded plugs (only couplings and plugs with the same coding can be connected). This prevents twisting of the plug in the coupling; at the same time a torsional moment can be transferred. As a result, the Series ESIK DN 7.8 is especially suited for sewer cleaning and reconstruction.



One-hand operation: To connect, push the plug into the coupling



Tighten the locking nut to secure the sleeve



Disconnection: Separate the coupling from the plug after loosening the locking nut

Two-Hand Operation



The breathing air quick connect couplings series ESI1A and ESI2A DN 7.4 guarantee special safety aspects due to their extraordinary design. This allows them to be used in extreme situations (e.g. for respiratory masks of firefighters).

Both systems can only be combined under certain conditions. Furthermore, the two-hand operation ensures high safety when disconnecting coupling and plug. In this way, they provide reliable protection against accidental decoupling.

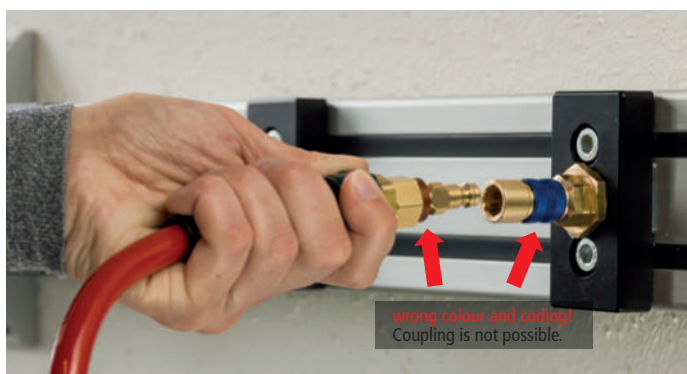


One-hand operation: To connect push the plug into the coupling.



Two-hand operation: To disconnect, push the plug while pulling back the sleeve

Visual Identification



The series ESMK DN 5 and ESIFK DN 7.8 allow for easy identification of different media circuits and prevent false coupling. This is due to coloured anodized knurled aluminium sleeves on the coupling as well as coloured anodized aluminium rings on the plug and various codes at the coupling and plug.



One-hand operation: To connect, push the plug into the coupling. (The colours of the aluminium sleeve of the coupling and the aluminium ring of the plug as well as the plug-coding have to be identical.)



To disconnect, pull back the coupling sleeve.

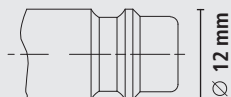
Safety Self-Venting Couplings

Series ESIS with Sleeve Concept - single shut-off

According to
ISO 4414/
DIN EN 983/ BIA

DN 7.8

Plug Profile (original size)



- Top-quality, ergonomic and very robust one-hand quick connect couplings made of brass MS 58 nickel-plated with hardened steel sleeve and perfect sealing as well as compact dimensions
- Very easy to connect, disconnection in two steps by pushing and pulling the sleeve in direction of arrow. Self-venting after step 1, safe decoupling after step 2
- Safe protection against whiplash-effect at best usability
- For safe handling of flexible compressed air lines
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- **Attention: Safe operation can only be guaranteed when using hardened steel plugs**

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 12 bar	-20°C – +100°C	7.8	ISO 228/DIN EN 10226	1800 l/min	One-hand	Single Shut-off	Compr. air	Europe	Coupl.5/ Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	61	19	28	11	138	ESIS 14 A
R 3/8 m	62	19	28	12	147	ESIS 38 A
R 1/2 m	64	22	28	15	144	ESIS 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	57	19	28	10	146	ESIS 14 I
G 3/8 f	57	19	28	10	144	ESIS 38 I
G 1/2 f	59	24	28	12	160	ESIS 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	74	19	28	25	136	ESIS 6 T
Hose i.D. 8	74	19	28	25	136	ESIS 8 T
Hose i.D. 9	74	19	28	25	138	ESIS 9 T
Hose i.D. 10	74	19	28	25	138	ESIS 10 T
Hose i.D. 13	74	19	28	25	141	ESIS 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	33	13	9	20	14	ESI 18 NARS
R 1/4 m	35	14	11	20	18	ESI 14 NARS
R 3/8 m	36	17	12	20	23	ESI 38 NARS
R 1/2 m	40	22	15	20	47	ESI 12 NARS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	32	13	9	20	16	ESI 18 NIS
G 1/4 f	33	17	10	20	24	ESI 14 NIS
G 3/8 f	33	19	10	20	25	ESI 38 NIS
G 1/2 f	35	24	12	20	40	ESI 12 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	44	12	24	20	13	ESI 6 SS
Hose i.D. 8	44	12	24	20	18	ESI 8 SS
Hose i.D. 9	44	12	24	20	16	ESI 9 SS
Hose i.D. 10	44	12	24	20	18	ESI 10 SS
Hose i.D. 13	44	15	23	20	26	ESI 13 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

OptiFlow
by **LUDECKE**



Safety Quick Connect Couplings

with Sleeve Lock Mechanism - single shut-off **Series ES**

- Universal one-hand quick connect couplings made of brass MS 58 plain
- Simple and effective protection against accidental disconnection through tightening the locking nut (disconnecting is only possible through loosening the locking nut)
- Please connect with standard plugs series ES DN 7.2 (page 45)
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply or liquid media, e.g. for sewer cleaning and reconstruction

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain
- Springs: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.2	ISO 228	1100 l/min	One-hand	Single Shut-off	Air/Others	Worldwide	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	45	22	27	9	103	ES 14 AM

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	41	22	27	10,5	106	ES 14 IM

Couplings with hose barb

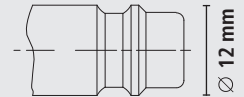
Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 13	61	22	27	25	109	ES 13 TM

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Special versions on request.

DN 7.2

Plug Profile (original size)

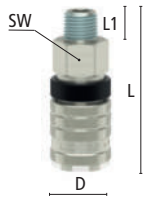
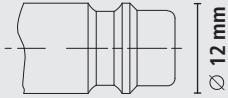


Safety Industrial Quick Connect Couplings

Series ESI with Sleeve Lock Mechanism - single shut-off

DN 7.8

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Simple and effective protection against accidental disconnection through tightening the locking nut (disconnecting is only possible through loosening the locking nut)
- Please connect with standard plugs series ESI DN 7.8 (page 55) as well as series ES DN 7.2 (page 45)
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply or liquid media, e.g. for sewer cleaning and reconstruction

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Locking nut: Brass MS 58 black galvanized
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228/ DIN EN 10226	2000 l/min	One-hand	Single shut-off	Air/Others	Worldwide	5

Couplings with male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	60	19	23	11	115	ESI 14 AM
R 3/8 m	61	19	23	12	114	ESI 38 AM
R 1/2 m	59	24	23	15	131	ESI 12 AM

Couplings with female thread

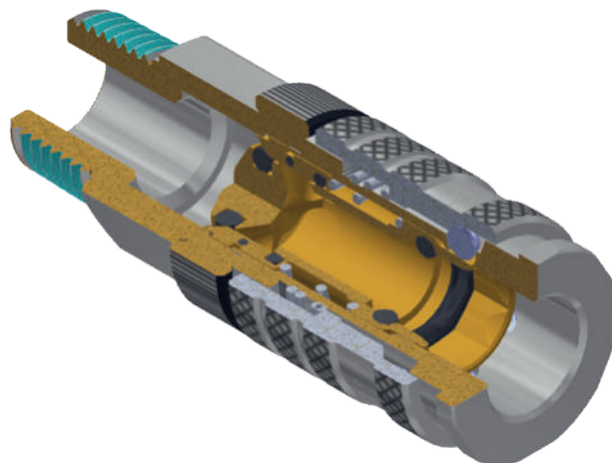
Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	57	19	23	10	118	ESI 14 IM
G 3/8 f	57	19	23	10	109	ESI 38 IM
G 1/2 f	59	24	23	12	129	ESI 12 IM

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73	19	23	25	101	ESI 6 TM
Hose i.D. 8	73	19	23	25	103	ESI 8 TM
Hose i.D. 9	73	19	23	25	104	ESI 9 TM
Hose i.D. 10	73	19	23	25	105	ESI 10 TM
Hose i.D. 13	73	19	23	25	108	ESI 13 TM

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Special versions on request.

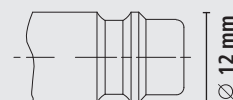


Safety Industrial Quick Connect Couplings

with Sleeve Lock Mechanism - single shut-off **Series ESI**

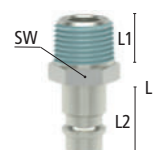
DN 7.8

Plug Profile (original size)



Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	33	13	9	20	14	ESI 18 NARS
R 1/4 m	35	14	11	20	18	ESI 14 NARS
R 3/8 m	36	17	12	20	23	ESI 38 NARS
R 1/2 m	40	22	15	20	47	ESI 12 NARS



Plugs with parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	33	13	9	20	14	ESI 18 NAS
G 1/4 m	35	14	11	20	18	ESI 14 NAS
G 3/8 m	36	17	12	20	23	ESI 38 NAS
G 1/2 m	40	22	15	20	47	ESI 12 NAS



Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	32	13	9	20	16	ESI 18 NIS
G 1/4 f	33	17	10	20	24	ESI 14 NIS
G 3/8 f	33	19	10	20	25	ESI 38 NIS
G 1/2 f	35	24	12	20	40	ESI 12 NIS



Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	44	12	24	20	13	ESI 6 SS
Hose i.D. 8	44	12	24	20	18	ESI 8 SS
Hose i.D. 9	44	12	24	20	16	ESI 9 SS
Hose i.D. 10	44	12	24	20	18	ESI 10 SS
Hose i.D. 13	44	15	23	20	26	ESI 13 SS



For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Opti[®]
Flow
by **LUDECKE**

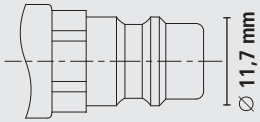


Safety Industrial Quick Connect Couplings

Series ESIK with Sleeve Lock Mechanism and Plug Coding - single shut-off

DN 7.8

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Simple and effective protection against accidental disconnection through tightening the locking nut (disconnecting is only possible through loosening the locking nut)
- Plug coding: prevents twisting of coded plug in coupling
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- For compressed air or liquid media, e.g. for sewer cleaning and reconstruction

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Sleeve, plug: Hardened steel nickel-plated
- Locking nut: Brass MS 58 black galvanized
- Springs: Stainless steel 1.4310
- Valve: Brass MS 58 plain
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7,8	ISO 228/ DIN EN 10226	2000 l/min	One-hand	Single Shut-off	Air/Others	Worldwide	5

Couplings with male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	64	19	23	11	119	ESIK 14 A
R 3/8 m	65	19	23	12	118	ESIK 38 A
R 1/2 m	58	22	23	15	135	ESIK 12 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	61	19	23	10	122	ESIK 14 I
G 3/8 f	61	19	23	10	113	ESIK 38 I
G 1/2 f	63	24	23	12	133	ESIK 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	87	19	23	35	115	ESIK 6 T
Hose i.D. 8	87	19	23	35	117	ESIK 8 T
Hose i.D. 9	87	19	23	35	118	ESIK 9 T
Hose i.D. 10	87	19	23	35	119	ESIK 10 T
Hose i.D. 13	87	19	23	35	122	ESIK 13 T

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

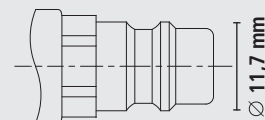


Safety Industrial Quick Connect Couplings

with Sleeve Lock Mechanism and Plug Coding - single shut-off **Series ESIK**

DN 7.8

Plug Profile (original size)



Plugs with male thread (thread coated) and plug coding

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	39	17	11	23	26	ESIK 14 NARS
R 3/8 m	40	17	12	23	28	ESIK 38 NARS
R 1/2 m	43	22	15	23	44	ESIK 12 NARS



Plugs with female thread and plug coding

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	35	17	10	23	25	ESIK 14 NIS
G 3/8 f	35	19	10	23	25	ESIK 38 NIS
G 1/2 f	38	24	12	23	41	ESIK 12 NIS



Plugs with hose barb and plug coding

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	60	18.5	35	23	21	ESIK 6 SS
Hose i.D. 8	60	18.5	35	23	23	ESIK 8 SS
Hose i.D. 9	60	18.5	35	23	24	ESIK 9 SS
Hose i.D. 10	60	18.5	35	23	25	ESIK 10 SS
Hose i.D. 13	60	18.5	35	23	28	ESIK 13 SS

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



OptiFlow
by LUDECKE

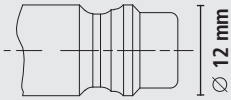


Breathing Air Couplings

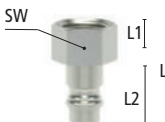
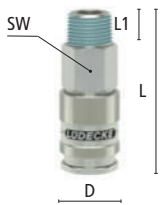
Series ESI1A with Two-Hand Operation - single shut-off

DN 7.4

Plug Profile (original size)



According to
DIN EN 14594



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- To disconnect, push the plug into the coupling, only then the unlocking mechanism will work, this guarantees effective protection against accidental disconnection
- Coupling „ESI2A“ cannot be combined with plug „ESI1A“, plug „ESI2A“ can be combined with coupling „ESI1A“
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions, e.g. straight-through or double shut-off valve on request

Materials

- Body, sleeve, valve body, plug: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.4	ISO 228 / DIN EN 10226	1800 l/min	Two-hand	Single Shut-off	Compr. air	Europe	Coupl. 5/ Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	60	19	23	11	106	ESI1A 14 A
R 3/8 m	61	19	23	12	108	ESI1A 38 A
R 1/2 m	64	22	23	15	136	ESI1A 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	56	19	23	10	109	ESI1A 14 I
G 3/8 f	56	19	23	10	103	ESI1A 38 I
G 1/2 f	58	24	23	12	138	ESI1A 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73	19	23	25	100	ESI1A 6 T
Hose i.D. 8	73	19	23	25	101	ESI1A 8 T
Hose i.D. 9	73	19	23	25	100	ESI1A 9 T
Hose i.D. 10	73	19	23	25	104	ESI1A 10 T
Hose i.D. 13	73	19	23	25	110	ESI1A 13 T

For hose clips type ZOS (⊗ page 130), type HS (⊗ page 131) or crimping ferrules type LPH (⊗ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	35.5	14	11	20	22	ESI1A 14 NA
R 3/8 m	37.5	17	12	20	27	ESI1A 38 NA
R 1/2 m	40.5	22	15	20	59	ESI1A 12 NA

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	33.5	17	10	20	26	ESI1A 14 NI
G 3/8 f	33.5	19	10	20	25	ESI1A 38 NI
G 1/2 f	35.5	24	12	20	41	ESI1A 12 NI

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	47	14	25	20	16	ESI1A 6 S
Hose i.D. 8	47	14	25	20	18	ESI1A 8 S
Hose i.D. 9	47	14	25	20	12	ESI1A 9 S
Hose i.D. 10	47	14	25	20	21	ESI1A 10 S
Hose i.D. 13	47	16	25	20	28	ESI1A 13 S

Versions in stainless steel 1.4305 on request.

Breathing Air Couplings

with Two-Hand Operation - single shut-off **Series ESI2A**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- To disconnect, push the plug into the coupling, only then the unlocking mechanism will work, this guarantees effective protection against accidental disconnection
- Coupling „ESI2A“ cannot be combined with plug „ESI1A“, plug „ESI2A“ can be combined with coupling „ESI1A“
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions, e.g. straight-through or double shut-off valve on request

Materials

- Body, sleeve, valve body, plug: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.4	ISO 228 / DIN EN 10226	1800 l/min	Two-hand	Single Shut-off	Compr. Air	Europe	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated) – long version

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	64	19	23	11	114	ESI2A 14 A
R 3/8 m	65	19	23	12	117	ESI2A 38 A
R 1/2 m	68	22	23	15	144	ESI2A 12 A

Couplings with parallel female thread – long version

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	60	19	23	10	118	ESI2A 14 I
G 3/8 f	60	19	23	10	111	ESI2A 38 I
G 1/2 f	62	24	23	12	146	ESI2A 12 I

Couplings with hose barb – long version

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	77	19	23	25	108	ESI2A 6 T
Hose i.D. 8	77	19	23	25	110	ESI2A 8 T
Hose i.D. 9	77	19	23	25	108	ESI2A 9 T
Hose i.D. 10	77	19	23	25	112	ESI2A 10 T
Hose i.D. 13	77	19	23	25	118	ESI2A 13 T

For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

Plugs with tapered male thread (thread coated) – long version

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	40	14	11	25	24	ESI2A 14 NA
R 3/8 m	42	17	12	25	29	ESI2A 38 NA
R 1/2 m	45	22	15	25	62	ESI2A 12 NA

Plugs with parallel female thread – long version

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	38	17	10	25	29	ESI2A 14 NI
G 3/8 f	38	19	10	25	29	ESI2A 38 NI
G 1/2 f	40	24	12	25	44	ESI2A 12 NI

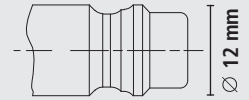
Plugs with hose barb – long version

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	51	12	25	25	17	ESI2A 6 S
Hose i.D. 8	51	12	25	25	19	ESI2A 8 S
Hose i.D. 9	51	12	25	25	19	ESI2A 9 S
Hose i.D. 10	51	12	25	25	22	ESI2A 10 S
Hose i.D. 13	53	15	25	25	30	ESI2A 13 S

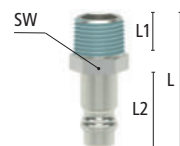
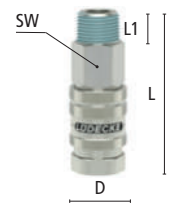
Versions in stainless steel 1.4305 on request.

DN 7.4

Plug Profile (original size)



According to
DIN EN 14594



**Opti®
Flow**
by **LUDECKE**

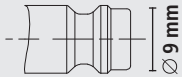


Safety Quick Connect Couplings

Series ESMK with Plug and Colour Coding - single shut-off

DN 5

Plug Profile (original size)



- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain
- Differently coloured anodised knurled aluminium sleeves on the coupling as well as different coloured anodized aluminium rings on the plug for visual identification of different media circuits
- Additional plug coding, to make false coupling impossible when using different media simultaneously (only couplings and plugs of the same colour can be connected)

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: Aluminium anodized
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain with anodized aluminium ring

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228	430 l/min	One-hand	Single Shut-off	Div.	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 m	47	14	16	7	35	ESMK 18 AG	ESMK 18 ABR	ESMK 18 ABL	ESMK 18 AR
G 1/4 m	49	17	16	9	44	ESMK 14 AG	ESMK 14 ABR	ESMK 14 ABL	ESMK 14 AR

Male thread sealing with PVC sealing ring type HPD

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 f	47	14	16	7	40	ESMK 18 IG	ESMK 18 IBR	ESMK 18 IBL	ESMK 18 IR
G 1/4 f	49	17	16	9	46	ESMK 14 IG	ESMK 14 IBR	ESMK 14 IBL	ESMK 14 IR

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	56	14	16	17	35	ESMK 6 TG	ESMK 6 TBR	ESMK 6 TBL	ESMK 6 TR
Hose i.D. 9	56	14	16	17	37	ESMK 9 TG	ESMK 9 TBR	ESMK 9 TBL	ESMK 9 TR

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Safety Quick Connect Couplings

single shut-off **Series ESMK**

DN 5

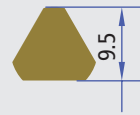
Plug and Colour Coding in original size

green



Ø 10.5

brown



blue



SW 10

red



SW 10

Plugs with male thread

Thread connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 m	39	17	7	15	ESMK 18 NAG	ESMK 18 NABR	ESMK 18 NABL	ESMK 18 NAR
G 1/4 m	41	17	9	25	ESMK 14 NAG	ESMK 14 NABR	ESMK 14 NABL	ESMK 14 NAR

Male thread sealing with PVC sealing ring type HPD



Plugs with female thread

Thread connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 f	38	17	5	15	ESMK 18 NIG	ESMK 18 NIBR	ESMK 18 NIBL	ESMK 18 NIR
G 1/4 f	40	17	7	25	ESMK 14 NIG	ESMK 14 NIBR	ESMK 14 NIBL	ESMK 14 NIR



Plugs with hose barb

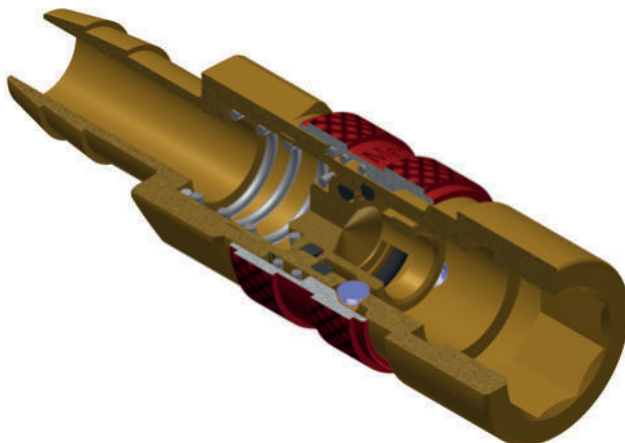
Hose connection	L	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	47	15	17	12	ESMK 6 SG	ESMK 6 SBR	ESMK 6 SBL	ESMK 6 SR
Hose i.D. 9	47	15	17	15	ESMK 9 SG	ESMK 9 SBR	ESMK 9 SBL	ESMK 9 SR

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



Bulkhead plugs

Hose connection	L	SW	L1	L2	SW1	G	Weight	Type No.	Type No.
Hose i.D. 6	63	17	17	14	17	M 12x1 m	40	ESMK 6 SSVG	ESMK 6 SSVBR
Hose i.D. 6	63	17	17	14	17	M 12x1 m	40	ESMK 6 SSVBL	ESMK 6 SSVR

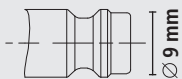


Safety Quick Connect Couplings

Series ESMK with Plug and Colour Coding - double shut-off

DN 5

Plug Profile (original size)



- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Differently coloured anodised knurled aluminium sleeves on the coupling as well as different coloured anodized aluminium rings on the plug for visual identification of different media circuits
- Additional plug coding, to make false coupling impossible when using different media simultaneously (only couplings and plugs of the same colour can be connected)
- **Attention: Couplings can be connected with straight-through plugs DN 5. However, double shut-off plugs cannot be connected with standard couplings DN 5**

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: Aluminium anodized
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.3541
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain with anodized aluminium ring

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228	310 l/min	One-hand	Double Shut-off	Div.	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 m	47	14	16	7	35	ESMK 18 AABG	ESMK 18 AABBR	ESMK 18 AABBL	ESMK 18 AABR
G 1/4 m	49	17	16	9	44	ESMK 14 AABG	ESMK 14 AABBR	ESMK 14 AABBL	ESMK 14 AABR

Male thread sealing with PVC sealing ring type HPD

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 f	47	14	16	7	40	ESMK 18 IABG	ESMK 18 IABBR	ESMK 18 IABBL	ESMK 18 IABR
G 1/4 f	49	17	16	9	46	ESMK 14 IABG	ESMK 14 IABBR	ESMK 14 IABBL	ESMK 14 IABR

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	56	14	16	17	35	ESMK 6 TABG	ESMK 6 TABBR	ESMK 6 TABBL	ESMK 6 TABR
Hose i.D. 9	56	14	16	17	37	ESMK 9 TABG	ESMK 9 TABBR	ESMK 9 TABBL	ESMK 9 TABR

For hose clips type ZOS (☉ page 130), type HS (☉ page 131) or crimping ferrules type LPH (☉ page 133)

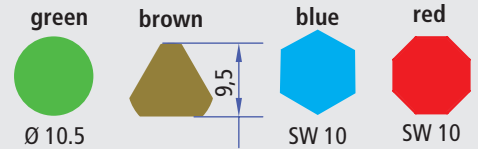


Safety Quick Connect Couplings

double shut-off **Series ESMK**

DN 5

Plug and Colour Coding in original size



Plugs with male thread

Thread connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 m	39	17	7	15	ESMK 18 NAABG	ESMK 18 NAABBR	ESMK 18 NAABBL	ESMK 18 NAABR
G 1/4 m	41	17	9	25	ESMK 14 NAABG	ESMK 14 NAABBR	ESMK 14 NAABBL	ESMK 14 NAABR

Male thread sealing with PVC sealing ring type HPD



Plugs with female thread

Thread connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/8 f	38	17	5	15	ESMK 18 NIABG	ESMK 18 NIABBR	ESMK 18 NIABBL	ESMK 18 NIABR
G 1/4 f	40	17	7	25	ESMK 14 NIABG	ESMK 14 NIABBR	ESMK 14 NIABBL	ESMK 14 NIABR



Plugs with hose barb

Hose connection	L	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 6	47	15	17	12	ESMK 6 SABG	ESMK 6 SABBR	ESMK 6 SABBL	ESMK 6 SABR
Hose i.D. 9	47	15	17	15	ESMK 9 SABG	ESMK 9 SABBR	ESMK 9 SABBL	ESMK 9 SABR

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



Bulkhead plugs

Hose connection	L	SW	L1	L2	SW1	G	Weight	Type No.	Type No.
Hose i.D. 6	63	17	17	14	17	M 12x1 m	40	ESMK 6 SSVABG	ESMK 6 SSVABBR
Hose i.D. 6	63	17	17	14	17	M 12x1 m	40	ESMK 6 SSVABBL	ESMK 6 SSVABR

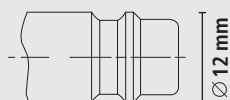


Safety Industrial Quick Connect Couplings

Series ESIFK with Plug and Colour Coding - single shut-off

DN 7.8

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings made of brass MS 58 plain
- Differently coloured anodised knurled aluminium sleeves on the coupling as well as different coloured anodized aluminium rings on the plug for visual identification of different media circuits
- Additional plug coding, to make false coupling impossible when using different media simultaneously (only couplings and plugs of the same colour can be connected)
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: Aluminium anodized
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR - additional charge for EPDM (0.40 Euro) and FKM seals (0.94 Euro)
- Plug: Brass MS 58 plain with anodized aluminium ring

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.8	ISO 228	2000 l/min	One-hand	Single Shut-off	Div.	Europe	Coupl. 1/ Plug 10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/4 m	59.5	19	23	9	81	ESIFK 14 AG	ESIFK 14 ABR	ESIFK 14 ABL	ESIFK 14 AR
G 3/8 m	62.5	19	23	12	88	ESIFK 38 AG	ESIFK 38 ABR	ESIFK 38 ABL	ESIFK 38 AR
G 1/2 m	62.5	24	23	12	116	ESIFK 12 AG	ESIFK 12 ABR	ESIFK 12 ABL	ESIFK 12 AR

Male thread sealing with PVC sealing ring type HPD

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/4 f	59.5	19	23	10	90	ESIFK 14 IG	ESIFK 14 IBR	ESIFK 14 IBL	ESIFK 14 IR
G 3/8 f	59.5	19	23	10	83	ESIFK 38 IG	ESIFK 38 IBR	ESIFK 38 IBL	ESIFK 38 IR
G 1/2 f	61.5	24	23	12	118	ESIFK 12 IG	ESIFK 12 IBR	ESIFK 12 IBL	ESIFK 12 IR

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 9	75.5	19	23	25	80	ESIFK 9 TG	ESIFK 9 TBR	ESIFK 9 TBL	ESIFK 9 TR

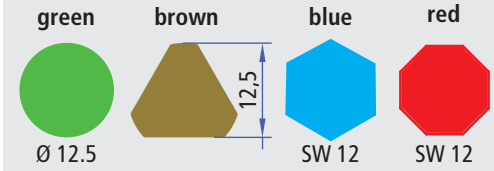
For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)

Safety Industrial Quick Connect Couplings

single shut-off **Series ESIFK**

DN 7.8

Plug and Colour coding in original size



Couplings with male thread

Thread connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/4 m	36.5	17	9	26	ESIFK 14 NAG	ESIFK 14 NABR	ESIFK 14 NABL	ESIFK 14 NAR
G 3/8 m	36.5	19	9	32	ESIFK 38 NAG	ESIFK 38 NABR	ESIFK 38 NABL	ESIFK 38 NAR
G 1/2 m	37.5	24	10	46	ESIFK 12 NAG	ESIFK 12 NABR	ESIFK 12 NABL	ESIFK 12 NAR

Male thread sealing with PVC sealing ring type HPD



Couplings with female thread

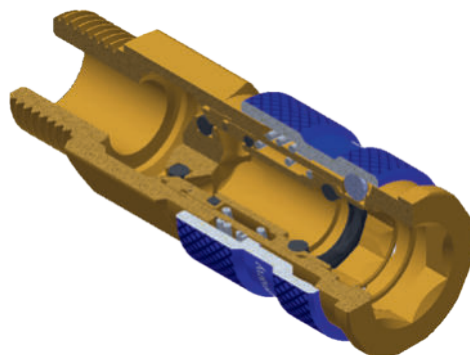
Thread connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
G 1/4 f	36.5	17	10	30	ESIFK 14 NIG	ESIFK 14 NIBR	ESIFK 14 NIBL	ESIFK 14 NIR
G 3/8 f	36.5	19	10	31	ESIFK 38 NIG	ESIFK 38 NIBR	ESIFK 38 NIBL	ESIFK 38 NIR
G 1/2 f	38.5	24	12	47	ESIFK 12 NIG	ESIFK 12 NIBR	ESIFK 12 NIBL	ESIFK 12 NIR



Couplings with hose barb

Hose connection	L	SW	L1	Weight	Type No.	Type No.	Type No.	Type No.
Hose i.D. 9	50.5	15	25	21	ESIFK 9 SG	ESIFK 9 SBR	ESIFK 9 SBL	ESIFK 9 SR

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



Quick Connect Couplings with International Plug Profiles



The **LUDECKE** product range contains a large selection of quick connect couplings with international plug profiles. They cover the world's most common used plug profiles and ensure high compatibility. These coupling systems are available from DN 5 to DN 10 - depending on requested flow rates.

LUDECKE offers quick connect couplings customised to the following countries:

- Great Britain
- Spain
- France
- Benelux countries
- Switzerland
- Asia
- USA
- and others



All series are available in different sizes, connection types, valve types and materials.

Different Sizes and Versions

For better understanding, products with international plug profiles are divided into groups according to country compatibility. However, it is also possible to break them down into the series **Quality-**, **OptiFlow-** and **SafeConnect-Line**.



Quality-Line

Standard Quick Connect Couplings

→ In series ESA DN 5.5 / ESO DN 5.5 / ESK DN 7.5 / F1K DN 8

OptiFlow-Line

Energy-Efficient Quick Connect Couplings with patented OptiFlow by **LUDECKE**® Valve Technology

→ In series ESB DN 5.5 / ESBI DN 5 / ESAI DN 5.5 / ESAIS DN 5.5 / ESOI DN 5.5 / ESOIS DN 5.5 / ESAC DN 8 / ESACG DN 10

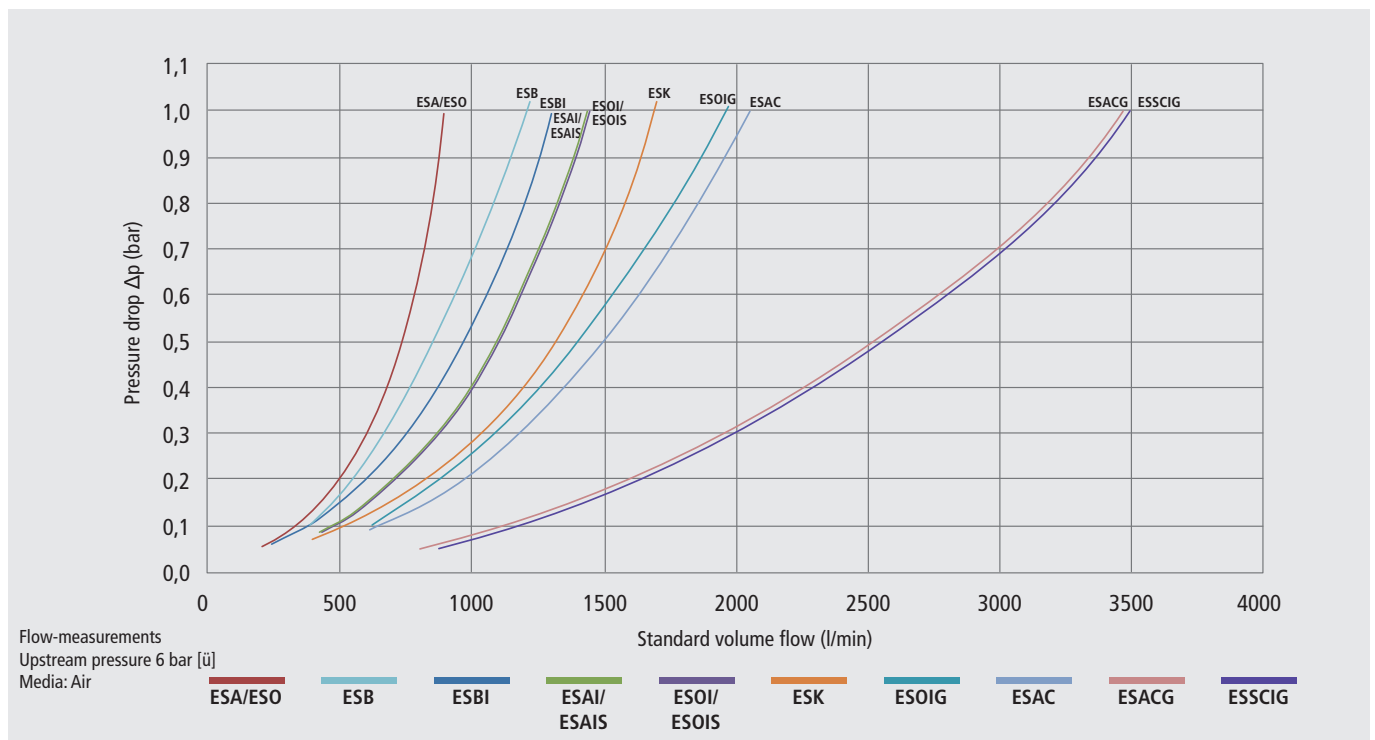
SafeConnect-Line

Quick Connect Couplings for High-Safety Standards

→ In series ESAIS DN 5.5 / ESOIS DN 5.5

Chart of Flow Rates

The flow rates of the different coupling systems are summarized in the following chart.

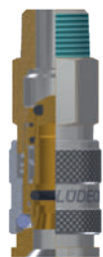
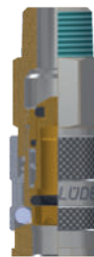
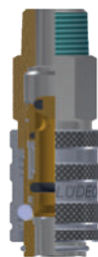
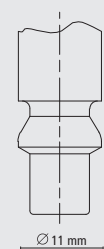
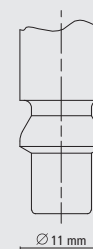
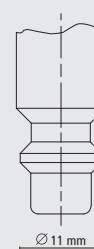
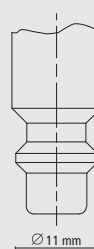
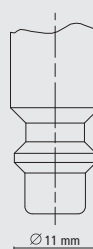
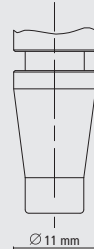


Overview of Quick Connect Couplings with

NEW!

Series **ESB** **ESBI** **ESA** **ESAI** **ESAIS** **ESO** **ESOI**
 DN 5.5 DN 5 DN 5.5 DN 5.5 DN 5.5 DN 5.5 DN 5.5

Plug Profile
(original size)



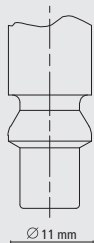
Materials

Body:	MS 58 nickel-plated	MS 58 nickel-pl.	MS 58 plain	MS 58 nickel-pl.	MS 58 nickel-pl.	MS 58 plain	MS 58 nickel-pl.
Sleeve:	Steel hardened + nickel-pl	Steel hardened + nickel-pl.	MS 58 plain	Steel hardened + nickel-pl.	Steel hardened + nickel-pl.	MS 58 plain	Steel hardened + nickel-pl.
Valve body:	MS 58 nickel-plated	Steel hardened + zinc-pl	MS 58 plain	MS 58 nickel-plated	MS 58 nickel-plated	MS 58 plain	MS 58 nickel-plated
Valve:	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain
Springs, Retaining ring:	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310
Balls:	Stainless Steel 1.4034	Stainless Steel 1.4034	-	Stainless Steel 1.4034	Stainless Steel 1.4034	-	Stainless Steel 1.4034
Pins:	-	-	Stainless Steel 1.4305	-	-	Stainless Steel 1.4305	-
Seals:	NBR	NBR	NBR	NBR	NBR	NBR	NBR
Special seals for other media on request:	-	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM
Plug:	Steel hardened + nickel-plated	Steel hardened + nickel-plated	MS 58 plain/ Steel zinc-pl.+ yellow passivated	Steel hardened + nickel-plated	Steel hardened + nickel-plated	MS 58 plain	Steel hardened + nickel-plated
Max. Working Pressure:	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 12 bar	PN 35 bar	PN 35 bar
Temperature:	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C
Thread type:	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228/ NPT	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228	ISO 228/ DIN EN 10226
Max. Flow Capacity: at 6 bar (ü) and 0.5 bar Pressure drop Single shut-off	800 l/min	950 l/min	775 l/min	1100 l/min	1100 l/min	775 l/min	1140 l/min
Type of valve:	single	single	single	single	single	single	single
Operation:	One-Hand	One-Hand	One-Hand	One-Hand	One-Hand	One-Hand	One-Hand
Norm:	-	-	ISO 6150 B US-MIL-Spec. C4109 Industr. Interchange 1/4"	ISO 6150 B US-MIL-Spec. C4109 Industr. Interchange 1/4"	ISO 6150 B US-MIL-Spec. C4109 Industr. Interchange 1/4"	-	-
Interchange:	Parker Rectus Series 19 PCL60 (UK)	Parker Rectus Series 17 Schrader NW5	Parker Rectus Series 23/24, Hansen 3000, Cejn 310, Milton, Gromelle 600	Parker Rectus Series 23/24, Hansen 3000, Cejn 310, Milton, Gromelle 600	Parker Rectus Series 23/24, Hansen 3000, Cejn 310, Milton, Gromelle 600	Parker Rectus Series 14/22, ARO 210, Cejn 300, Orion 44510, Parker 50	Parker Rectus Series 14/22, ARO 210, Cejn 300, Orion 44510, Parker 50
Area:	Great Britain	Great Britain, Europe	USA, Spain, France	USA, Spain, France	USA, Spain, France	Benelux, Switzerland	Benelux, Switzerland
Page:	86	87	88	90	91	92	93

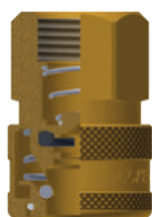
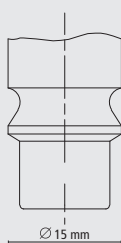
International Plug Profiles

NEW!

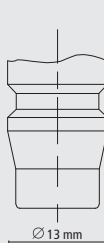
ESOIS
DN 5.5



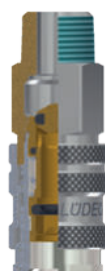
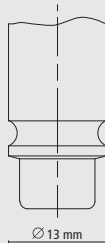
ESOIG
DN 9



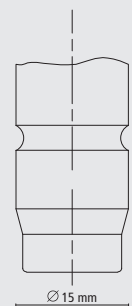
ESK
DN 7.5



ESAC
DN 8

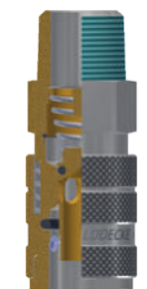
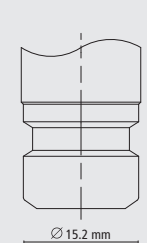


ESACG
DN 10

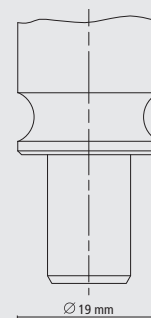


NEW!

ESSCIG
DN 10



F1K
DN 8



MS 58 nickel-plated Steel hardened + nickel-pl.	MS 58 plain MS 58 plain	MS 58 plain MS 58 nickel-pl.	MS 58 nickel-plated Steel hardened + nickel-pl.	MS 58 nickel-plated Steel hardened + nickel-pl.	MS 58 nickel-plated MS 58 nickel-plated	Steel zinc-pl.+yellow pass
MS 58 nickel-plated	MS 58 plain	MS 58 plain	Steel hardened + zinc-pl.	Steel zinc-plated	MS 58 nickel-plated	Steel zinc-pl.+yellow pass.
MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain	MS 58 plain
Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310
Stainless Steel 1.4034	-	-	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034
-	Stainless Steel 1.4305	Stainless Steel 1.4305	-	-	-	-
NBR	NBR	NBR	NBR	NBR	NBR	NBR
EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM/ FFKM	EPDM/ FKM	EPDM/ FKM	EPDM/ FKM/ FFKM
Steel hardened + nickel-plated	Steel hardened + nickel-plated	Steel hardened + nickel-plated	Steel hardened + zinc-plated	Steel hardened + nickel-plated	Steel nickel-plated/ MS 58 nickel-plated	Steel zinc-plated + yellow passivated
PN 12 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar
-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C	-20°C – +100°C
ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228/ DIN EN 10226	ISO 228
1140 l/min	1400 l/min	1375 l/min	1650 l/min	2600 l/min	2900 l/min	1800 l/min
single	single	single	single	single	single/double	single
One-Hand	One-Hand	One-Hand	One-Hand	One-Hand	One-Hand/ Two-Hands	Two-Hands
-	-	-	-	-	-	-
Parker Rectus Series 14/22, ARO 210, Cejn 300, Orion 44510, Parker 50	Rectus Series 40 KA, ARO 310, Orion 44520, Orion 44530	Parker Rectus Series 13/03, Nitto Kohki 200 Cejn 314/315	Parker Rectus Series 33 Atlas Copco QIC 10	Parker Rectus Series 34 KA, Atlas Copco QIC 15	Parker Rectus Series 32, Cejn 408, Tema 1800 SF	-
Benelux, Switzerland	Benelux, Switzerland	especially Asia	worldwide	worldwide	Scandinavia	worldwide
94	95	96	97	98	99	101

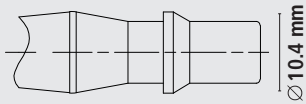
Steel zinc-pl. + yellow pass. = Steel zinc-plated and yellow passivated

Quick Connect Couplings

Series ESB single shut-off

DN 5.5

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with British plug profile made of brass MS 58 nickel-plated
- Closed sleeve design protects the coupling from dirt
- Hose barb profile for safe hose fit and easy assembly
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE®** valve technology
- For compressed air supply as well as liquid or gaseous media in industry and craftsmanship

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Flow Cap.	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5,5	ISO 228 / DIN EN 10226	800 l/min	One-hand	Single Shut-off	Div.	UK	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	63	19	23	12	109	ESB 14 A
R 3/8 m	63	19	23	12	111	ESB 38 A
R 1/2 m	67	22	23	15	139	ESB 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	58	19	23	9	112	ESB 14 I
G 3/8 f	58	19	23	9	106	ESB 38 I
G 1/2 f	61	24	23	12	141	ESB 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	76	19	23	25	103	ESB 6 T
Hose i.D. 8	76	19	23	25	105	ESB 8 T
Hose i.D. 10	76	19	23	25	106	ESB 10 T
Hose i.D. 13	76	19	23	25	108	ESB 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	50	14	12	31	22	ESB 14 NAS
R 3/8 m	50	17	12	31	29	ESB 38 NAS

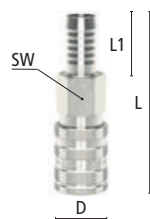
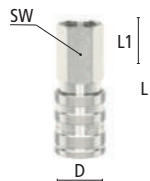
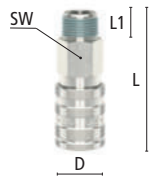
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	46	17	9	31	25	ESB 14 NIS
G 3/8 f	47	19	9	31	26	ESB 38 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	60	12	25	31	16	ESB 6 SS
Hose i.D. 8	60	12	25	31	17	ESB 8 SS
Hose i.D. 10	60	12	25	31	19	ESB 10 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Industrial Quick Connect Couplings

single shut-off **Series ESBI**

- Top-quality, extreme robust one-hand quick connect couplings with British plug profile made of brass MS 58 nickel-plated
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions on request i.e. couplings with straight-through or double shut-off valve
- For compressed air supply as well as liquid or gaseous media in industry and craftsmanship

Materials

- Body: Brass MS 58 nickel-plated
- Sleeve, plug: Hardened steel nickel-plated
- Valve body: Hardened steel zinc-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310 • Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	5	ISO 228 / DIN EN 10226	950 l/min	One-hand	Single Shut-off	Div.	EU + UK	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	63	19	23	11	114	ESBI 14 A
R 3/8 m	63	19	23	12	117	ESBI 38 A
R 1/2 m	66	22	23	15	145	ESBI 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	60	19	23	10	117	ESBI 14 I
G 3/8 f	60	19	23	10	111	ESBI 38 I
G 1/2 f	62	24	23	12	146	ESBI 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	76	19	23	25	107	ESBI 6 T
Hose i.D. 8	76	19	23	25	109	ESBI 8 T
Hose i.D. 10	76	19	23	25	110	ESBI 10 T
Hose i.D. 13	76	19	23	25	111	ESBI 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	37	11	9	28	16	ESBI 18 NAS
R 1/4 m	40	14	12	28	20	ESBI 14 NAS
R 3/8 m	40	17	12	28	25	ESBI 38 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	35	14	7	28	18	ESBI 18 NIS
G 1/4 f	37	17	9	28	26	ESBI 14 NIS
G 3/8 f	37	19	9	28	27	ESBI 38 NIS

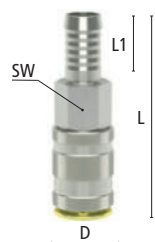
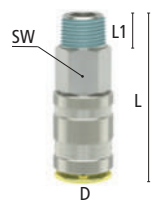
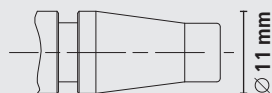
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	52	12	24	28	15	ESBI 6 SS
Hose i.D. 8	52	12	24	28	20	ESBI 8 SS
Hose i.D. 10	52	12	24	28	20	ESBI 10 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

DN 5

Plug Profile (original size)



Opti®
Flow
by **LUDECKE**

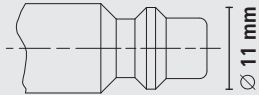


Quick Connect Couplings

Series ESA single shut-off

DN 5.5

Plug Profile (original size)



- Top-quality one-hand quick connect couplings made of brass MS 58 plain
- Plug profile according to ISO 6150 B and US Mil.-Spec. C4109
- Closed sleeve design protects the coupling from dirt
- Hose barb profile for safe hose fit and easy assembly
- Thread types available with NPT or BSP threads
- For compressed air supply in industry, craftsmanship, hobbies, etc.

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR (other materials on request)
- Plug: Brass MS 58 plain or steel zinc-plated and yellow passivated (free of chrome VI)

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5.5	ISO 228 / NPT	775 l/min	One-hand	Single shut-off	Compr. air	USA, F, SP	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	40	22	27	9	75	ESA 14 AR
G 3/8 m	41	22	27	10	78	ESA 38 AR
G 1/2 m	41	24	27	10	88	ESA 12 AR
NPT 1/4 m	45	22	27	13.5	81	ESA 14 A
NPT 3/8 m	46	22	27	14.5	84	ESA 38 A
NPT 1/2 m	50	22	27	18	105	ESA 12 A

Male thread sealing with PVC sealing ring type HPD (☺ Page 212)

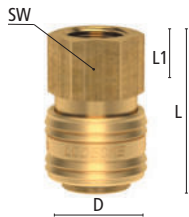
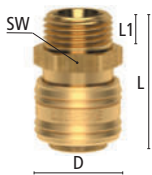
Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	41	22	27	10.5	93	ESA 14 IR
G 3/8 f	41	22	27	10.5	89	ESA 38 IR
G 1/2 f	41	24	27	10.5	91	ESA 12 IR
NPT 1/4 f	43.5	22	27	13.5	101	ESA 14 I
NPT 3/8 f	45	22	27	14.5	96	ESA 38 I
NPT 1/2 f	48	24	27	18	103	ESA 12 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	55	27	25	66	ESA 6 T
Hose i.D. 8	55	27	25	68	ESA 8 T
Hose i.D. 9	55	27	25	70	ESA 9 T
Hose i.D. 13	55	27	25	76	ESA 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

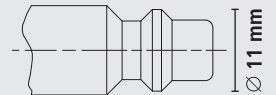


Quick Connect Couplings

single shut-off **Series ESA**

DN 5.5

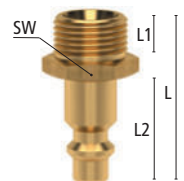
Plug Profile (original size)



Plugs with male thread

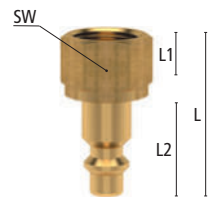
Thread connection	L	SW	L1	L2	Material	Weight	Type No.
G 1/8 m	35	13	7	24	MS 58	19	ESA 18 NAR
G 1/4 m	37	17	9	24	MS 58	23	ESA 14 NAR
G 3/8 m	38	19	9	24	MS 58	31	ESA 38 NAR
NPT 1/8 m	38	13	9.5	24	MS 58	23	ESA 18 NA
NPT 1/4 m	41	14	13	24	MS 58	25	ESA 14 NA
NPT 3/8 m	42	17	13	24	MS 58	31	ESA 38 NA
NPT 1/4 m	41	14	13	24	Steel	22	ESA 14 NAS

Male thread sealing with PVC sealing ring type HPD (© Page 212)



Plugs with female thread

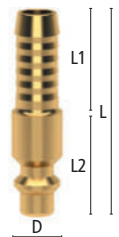
Thread connection	L	SW	L1	L2	Material	Weight	Type No.
G 1/8 f	35	13	9	24	MS 58	18	ESA 18 NIR
G 1/4 f	38	17	12	24	MS 58	27	ESA 14 NIR
G 3/8 f	39	19	12	24	MS 58	26	ESA 38 NIR
NPT 1/8 f	35	13	10	24	MS 58	20	ESA 18 NI
NPT 1/4 f	40	17	14	24	MS 58	29	ESA 14 NI
NPT 3/8 f	42	21	15	24	MS 58	40	ESA 38 NI
NPT 1/4 f	40	17	14	24	Steel	27	ESA 14 NIS



Plugs with hose barb

Hose connection	L	D	L1	L2	Material	Weight	Type No.
Hose i.D. 6	49	12	25	24	MS 58	17	ESA 6 S
Hose i.D. 9	48	12	24	24	MS 58	21	ESA 9 S
Hose i.D. 13	48	15	23	24	MS 58	29	ESA 13 S
Hose i.D. 6	49	12	25	24	Steel	16	ESA 6 SS
Hose i.D. 9	48	12	24	24	Steel	19	ESA 9 SS
Hose i.D. 13	48	15	23	24	Steel	26	ESA 13 SS

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



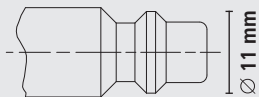
Special versions on request.

Industrial Quick Connect Couplings

Series ESAI single shut-off

DN 5.5

Plug Profile (original size)



- Top-quality extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Plug profile according to ISO 6150 B and US Mil.-Spec. C4109
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions on request i.e. couplings with squeeze nut
- For compressed air supply as well as liquid or gaseous media in industry and craftsmanship

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Sleeve, plug: Hardened steel nickel-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +100°C	5.5	ISO 228 / DIN EN 10226	1100 l/min	One-hand	Single Shut-off	Compr. Air	USA, F, SP	Coupl.5/Plug10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	60	19	23	11	95	ESAI 14 A
R 3/8 m	60	19	23	12	98	ESAI 38 A
R 1/2 m	63	22	23	17	120	ESAI 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	57	19	23	10	110	ESAI 14 I
G 3/8 f	57	19	23	10	105	ESAI 38 I
G 1/2 f	59	24	23	12	120	ESAI 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73	19	23	25	92	ESAI 6 T
Hose i.D. 8	73	19	23	25	95	ESAI 8 T
Hose i.D. 9	73	19	23	25	96	ESAI 9 T
Hose i.D. 10	73	19	23	25	99	ESAI 10 T
Hose i.D. 13	73	19	23	25	105	ESAI 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	38	13	9	24	19	ESAI 18 NAS
R 1/4 m	41	14	12	24	25	ESAI 14 NAS
R 3/8 m	42	17	13	24	35	ESAI 38 NAS
R 1/2 m	48	22	17	24	55	ESAI 12 NAS

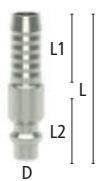
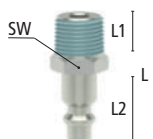
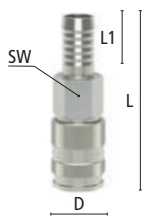
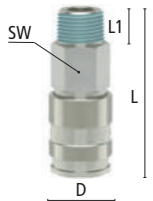
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	36	14	9	24	22	ESAI 18 NIS
G 1/4 f	36	17	9	24	25	ESAI 14 NIS
G 3/8 f	36	19	9	24	25	ESAI 38 NIS
G 1/2 f	39	24	12	24	40	ESAI 12 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	48	14	23	24	15	ESAI 6 SS
Hose i.D. 8	48	14	23	24	17	ESAI 8 SS
Hose i.D. 9	48	14	23	24	18	ESAI 9 SS
Hose i.D. 10	48	14	23	24	20	ESAI 10 SS
Hose i.D. 13	48	14	23	24	25	ESAI 13 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Opti®
Flow
by **LUDECKE**



According to
ISO 4414/
DIN EN 983/ BIA

Safety Self-Venting Couplings

with Sleeve Concept - single shut-off Series ESAIS

- Top-quality, ergonomic and very robust one-hand quick connect couplings made of brass MS 58 nickel-plated with hardened steel sleeve and perfect sealing as well as compact dimensions
- Plug profile according to ISO 6150 B and US Mil.-Spec. C4109
- Very easy to connect, disconnection in two steps by pushing and pulling the sleeve in direction of arrow. Self-venting after step 1, safe decoupling after step 2
- Safe protection against whiplash-effect at best usability
- For safe handling of flexible compressed air lines
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE®** valve technology
- **Attention: safe operation can only be guaranteed when using hardened steel plugs**

Materials

- Body, valve body: Brass MS 58 nickel-plated • Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request) • Springs: Stainless steel 1.4310 • Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 12 bar	-20°C – +100°C	5.5	ISO 228/DIN EN 10226	1100 l/min	One-hand	Single Shut-off	Compr. Air	USA, F, SP	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	62	19	28	11	138	ESAIS 14 A
R 3/8 m	63	19	28	12	147	ESAIS 38 A
R 1/2 m	65	22	28	15	144	ESAIS 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	58	19	28	10	146	ESAIS 14 I
G 3/8 f	58	19	28	10	144	ESAIS 38 I
G 1/2 f	60	24	28	12	160	ESAIS 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	75	19	28	25	136	ESAIS 6 T
Hose i.D. 8	75	19	28	25	136	ESAIS 8 T
Hose i.D. 9	75	19	28	25	138	ESAIS 9 T
Hose i.D. 10	75	19	28	25	138	ESAIS 10 T
Hose i.D. 13	75	19	28	25	141	ESAIS 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	38	13	9	24	19	ESAI 18 NAS
R 1/4 m	41	14	12	24	25	ESAI 14 NAS
R 3/8 m	42	17	13	24	35	ESAI 38 NAS
R 1/2 m	48	22	17	24	55	ESAI 12 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	36	14	9	24	22	ESAI 18 NIS
G 1/4 f	36	17	9	24	25	ESAI 14 NIS
G 3/8 f	36	19	9	24	25	ESAI 38 NIS
G 1/2 f	39	24	12	24	40	ESAI 12 NIS

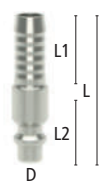
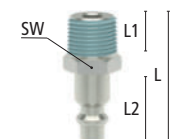
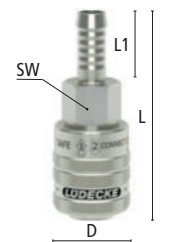
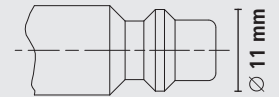
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	48	14	23	24	15	ESAI 6 SS
Hose i.D. 8	48	14	23	24	17	ESAI 8 SS
Hose i.D. 9	48	14	23	24	18	ESAI 9 SS
Hose i.D. 10	48	14	23	24	20	ESAI 10 SS
Hose i.D. 13	48	14	23	24	25	ESAI 13 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

DN 5.5

Plug Profile (original size)



Opti®
Flow
by **LUDECKE**

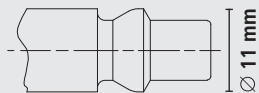


Quick Connect Couplings

Series ESO single shut-off

DN 5.5

Plug Profile (original size)



- Top-quality one-hand quick connect couplings made of brass MS 58 plain
- Plug profile according to ARO 210, ORION 44510
- Closed sleeve design protects the coupling from dirt
- Hose barb profile for safe hose fit and easy assembly
- For compressed air supply in industry, craftsmanship, hobbies, etc.

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR (other materials on request)

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	5.5	ISO 228	775 l/min	One-hand	Single Shut-off	Compr. Air	BeNeLux, CH	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	42	22	27	9	85	ESO 14 A
G 3/8 m	43	22	27	10	90	ESO 38 A
G 1/2 m	43	24	27	10	105	ESO 12 A

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	43	22	27	10.5	104	ESO 14 I
G 3/8 f	43	22	27	10.5	108	ESO 38 I
G 1/2 f	44.5	24	27	12	120	ESO 12 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	57	27	25	77	ESO 6 T
Hose i.D. 8	57	27	25	80	ESO 8 T
Hose i.D. 9	57	27	25	82	ESO 9 T
Hose i.D. 10	57	27	25	85	ESO 10 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	33	13	6	22	16	ESO 18 NA
G 1/4 m	35	17	8	22	21	ESO 14 NA
G 3/8 m	35	19	8	22	26	ESO 38 NA

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	34	17	9	22	23	ESO 14 NI
G 3/8 f	34	19	9	22	23	ESO 38 NI

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	47	11	22	22	14	ESO 6 S
Hose i.D. 8	47	11	22	22	15	ESO 8 S
Hose i.D. 9	47	11	22	22	16	ESO 9 S
Hose i.D. 10	47	11	22	22	18	ESO 10 S

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Special versions on request.

Industrial Quick Connect Couplings

single shut-off **Series ESOI**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Plug profile according to ARO 210, Orion 44510
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions on request i.e. couplings with squeeze nut
- For compressed air supply as well as liquid or gaseous media in industry and craftsmanship

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Sleeve, plug: Hardened steel nickel-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	5.5	ISO 228 / DIN EN 10226	1140 l/min	One-hand	Single Shut-off	Compr. Air	BeNeLux, CH	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	61	19	23	11	95	ESOI 14 A
R 3/8 m	61	19	23	12	98	ESOI 38 A
R 1/2 m	64	22	23	15	120	ESOI 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	58	19	23	10	110	ESOI 14 I
G 3/8 f	58	19	23	10	105	ESOI 38 I
G 1/2 f	60	24	23	12	120	ESOI 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	74	19	23	25	92	ESOI 6 T
Hose i.D. 8	74	19	23	25	95	ESOI 8 T
Hose i.D. 9	74	19	23	25	96	ESOI 9 T
Hose i.D. 10	74	19	23	25	99	ESOI 10 T
Hose i.D. 13	74	19	23	25	105	ESOI 13 T

For hose clips type ZOS (☹ page 130), type HS (☹ page 131) or crimping ferrules type LPH (☹ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	39	14	12	22	21	ESOI 14 NAS
R 3/8 m	39	17	12	22	26	ESOI 38 NAS
R 1/2 m	42	22	15	22	40	ESOI 12 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	35	17	10	22	23	ESOI 14 NIS
G 3/8 f	35	19	10	22	23	ESOI 38 NIS
G 1/2 f	37	24	12	22	37	ESOI 12 NIS

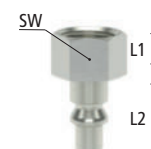
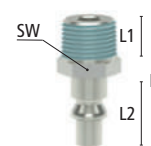
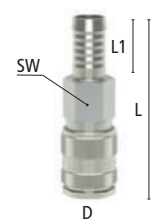
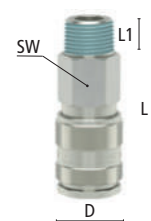
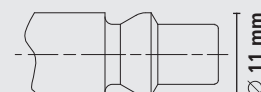
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	47	11	24	22	14	ESOI 6 SS
Hose i.D. 8	47	11	24	22	15	ESOI 8 SS
Hose i.D. 9	47	11	24	22	16	ESOI 9 SS
Hose i.D. 10	47	11	24	22	18	ESOI 10 SS
Hose i.D. 13	49	11	24	22	24	ESOI 13 SS

For hose clips type ZOS (☹ page 130), type HS (☹ page 131) or crimping ferrules type LPH (☹ page 133)

DN 5.5

Plug Profile (original size)



OptiFlow
by **LUDECKE**



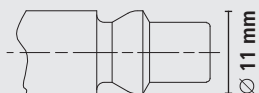
Safety Self-Venting Couplings

Series ESOIS with Sleeve-Concept - single shut-off

According to
ISO 4414/
DIN EN 983/ BIA

DN 5.5

Plug Profile (original size)



- Top-quality, ergonomic and very robust one-hand quick connect couplings made of brass MS 58 nickel-plated with hardened steel sleeve and perfect sealing as well as compact dimensions
- Plug profile according to ARO 210, ORION 44510
- Very easy to connect, disconnection in two steps by pushing and pulling the sleeve in direction of arrow. Self-venting after step 1, safe decoupling after step 2
- Safe protection against whiplash-effect at best usability
- For safe handling of flexible compressed air lines
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- **Attention: safe operation can only be guaranteed when using hardened steel plugs**

Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 12 bar	-20°C – +100°C	5.5	ISO 228/DIN EN 10226	1140 l/min	One-hand	Single Shut-off	Compr. Air	BeNeLux, CH	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	64	19	28	11	148	ESOIS 14 A
R 3/8 m	65	19	28	12	151	ESOIS 38 A
R 1/2 m	67	22	28	15	179	ESOIS 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	61	19	28	10	152	ESOIS 14 I
G 3/8 f	61	19	28	10	146	ESOIS 38 I
G 1/2 f	63	24	28	12	181	ESOIS 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	77	19	28	25	143	ESOIS 6 T
Hose i.D. 8	77	19	28	25	143	ESOIS 8 T
Hose i.D. 9	77	19	28	25	145	ESOIS 9 T
Hose i.D. 10	77	19	28	25	145	ESOIS 10 T
Hose i.D. 13	77	19	28	25	148	ESOIS 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	33	14	12	22	21	ESOI 14 NAS
R 3/8 m	39	17	12	22	26	ESOI 38 NAS
R 1/2 m	42	22	15	22	40	ESOI 12 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	35	17	10	22	23	ESOI 14 NIS
G 3/8 f	35	19	10	22	23	ESOI 38 NIS
G 1/2 f	37	24	12	22	37	ESOI 12 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	47	11	24	22	14	ESOI 6 SS
Hose i.D. 8	47	11	24	22	15	ESOI 8 SS
Hose i.D. 9	47	11	24	22	16	ESOI 9 SS
Hose i.D. 10	48	11	24	22	18	ESOI 10 SS
Hose i.D. 13	47	15	23	22	24	ESOI 13 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

OptiFlow
by **LUDECKE**



Quick Connect Couplings

single shut-off **Series ESOIG**

- Top-quality, extreme robust quick connect couplings made of brass MS 58 plain (on request nickel-plated) with high-class sealing
- Plug profile according to ARO 310, Orion 44520
- High flow rate at a low pressure drop due to streamlined valve
- For compressed air supply as well as liquid or gaseous media in industry and craftsmanship

Materials

- Body, sleeve, valve body, valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Plug: Hardened steel nickel-plated

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	9	ISO 228 / DIN EN 10226	1400 l/min	One-hand	Single Shut-off	Compr. Air	BeNeLux, CH.	10

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 f	46	27	32	10	164	ESOIG 38 I
G 1/2 f	46	27	32	11	155	ESOIG 12 I

Plugs with tapered male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 3/8 m	40	17	12	23	40	ESOIG 38 NAS
R 1/2 m	46	22	17	23	54	ESOIG 12 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	35	19	9	23	28	ESOIG 38 NIS
G 1/2 f	39	24	12	23	48	ESOIG 12 NIS

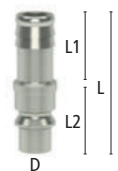
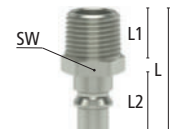
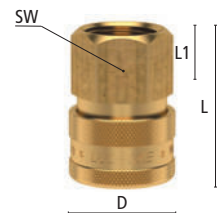
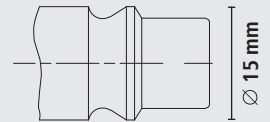
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 10	51	16	25	23	25	ESOIG 10 SS
Hose i.D. 13	51	16	25	23	33	ESOIG 13 SS
Hose i.D. 19	51	19	25	23	44	ESOIG 19 SS

For hose clips type ZOS (☹ page 130), type HS (☹ page 131) or crimping ferrules type LPH (☹ page 133)

DN 9

Plug Profile (original size)

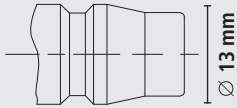


Quick Connect Couplings

Series ESK single shut-off

DN 7.5

Plug Profile (original size)



- Universal one-hand quick connect couplings made of brass MS 58 plain/ nickel plated, mainly used in the Asian market, interchangeable with type Nitto Kohki, one-hand operation
- For compressed air supply in industry, craftsmanship, hobbies, etc.

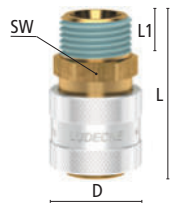
Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: Brass MS 58 nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- Seals: NBR (other materials on request)
- Plug: Hardened steel nickel-plated

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	7.5	ISO 228 / DIN EN 10226	1375 l/min	One-hand	Single Shut-off	Compr. Air	Asia	10

Couplings with tapered male thread, coated environmentally friendly with Loctite

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	46.5	22	27	11	81	ESK 14 AB
R 3/8 m	47.5	22	27	12	84	ESK 38 AB
R 1/2 m	47.5	22	27	12	100	ESK 12 AB



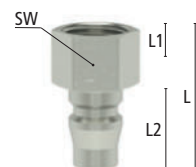
Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	45.5	22	27	10.5	96	ESK 14 I
G 3/8 f	45.5	22	27	10.5	90	ESK 38 I
G 1/2 f	47	24	27	12	90	ESK 12 I

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	59.5	27	25	69	ESK 6 T
Hose i.D. 8	59.5	27	25	73	ESK 8 T
Hose i.D. 10	59.5	27	25	75	ESK 10 T
Hose i.D. 13	59.5	27	25	80	ESK 13 T

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



Plugs with male thread (Steel hardened and nickel-plated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	37	14	11	20.2	20	ESK 14 NAS
R 3/8 m	38	17	12	20.2	28	ESK 38 NAS
R 1/2 m	41	22	15	20.2	46	ESK 12 NAS

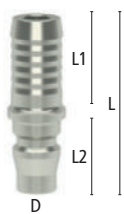
Plugs with female thread (Steel hardened and nickel-plated)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	34	17	10.5	20.2	25	ESK 14 NIS
G 3/8 f	34	19	10.5	20.2	25	ESK 38 NIS
G 1/2 f	36	24	12	20.2	38	ESK 12 NIS

Plugs with hose barb (Steel hardened and nickel-plated)

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	48	16	25	20.2	21	ESK 6 SS
Hose i.D. 8	48	16	25	20.2	21	ESK 8 SS
Hose i.D. 10	48	16	25	20.2	24	ESK 10 SS
Hose i.D. 13	48	16	25	20.2	24	ESK 13 SS

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



Industrial Quick Connect Couplings

single shut-off, System "Atlas Copco" **Series ESAC**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Special versions on request i.e. couplings with straight-through or double shut-off valve
- For compressed air supply in industry and craftsmanship

Materials

- Body: Brass MS 58 nickel-plated
- Sleeve: Steel hardened and nickel-plated
- Valve body, plug: Hardened steel zinc-plated
- Valve: Brass MS 58 plain
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310 • Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	8	ISO 228 / DIN EN 10226	1650 l/min	One-hand	Single Shut-off	Compr. Air	Worldwide	Coupl.5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	62	19	23	11	105	ESAC 14 A
R 3/8 m	62	19	23	12	108	ESAC 38 A
R 1/2 m	65	22	23	15	130	ESAC 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	59	19	23	10	115	ESAC 14 I
G 3/8 f	59	19	23	10	112	ESAC 38 I
G 1/2 f	61	24	23	12	135	ESAC 12 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	75	19	23	25	98	ESAC 6 T
Hose i.D. 8	75	19	23	25	100	ESAC 8 T
Hose i.D. 10	75	19	23	25	110	ESAC 10 T
Hose i.D. 13	75	19	23	25	115	ESAC 13 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m	39	14	9	24.5	22	ESAC 18 NAS
R 1/4 m	42	14	12	24.5	25	ESAC 14 NAS
R 3/8 m	42	17	12	24.5	35	ESAC 38 NAS
R 1/2 m	47	22	17	24.5	45	ESAC 12 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	37	14	9	24.5	26	ESAC 18 NIS
G 1/4 f	37	17	9	24.5	26	ESAC 14 NIS
G 3/8 f	37	19	9	24.5	26	ESAC 38 NIS
G 1/2 f	40	24	12	24.5	38	ESAC 12 NIS

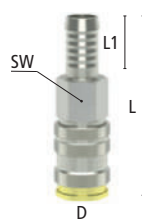
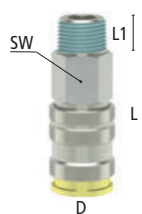
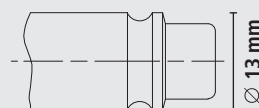
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	52	14	25	24.5	18	ESAC 6 SS
Hose i.D. 8	52	14	25	24.5	19	ESAC 8 SS
Hose i.D. 10	52	15	25	24.5	21	ESAC 10 SS
Hose i.D. 13	52	15	25	24.5	26	ESAC 13 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

DN 8

Plug Profile (original size)



OptiFlow
by **LUDECKE**

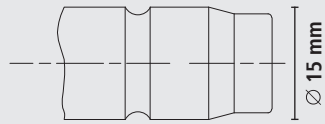


Industrial Quick Connect Couplings

Series ESACG single shut-off, System "Atlas Copco"

DN 10

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- For compressed air supply in industry and craftsmanship

Material

- Body: Brass MS 58 nickel-plated
- Valve body: Steel zinc-plated
- Valve, guiding sleeve: Brass MS 58 plain
- Sleeve, plug: Hardened steel and nickel-plated
- Seals: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228 / DIN EN 10226	2600 l/min	One-hand	Single Shut-off	Compr. Air	Worldwide	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 3/8 m	71	24	27	12.5	162	ESACG 38 A
R 1/2 m	73	24	27	17	165	ESACG 12 A
R 3/4 m	73	27	27	17	194	ESACG 34 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 f	65	24	27	11	164	ESACG 38 I
G 1/2 f	65	24	27	12	154	ESACG 12 I
G 3/4 f	69	32	27	16	219	ESACG 34 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 8	85	24	27	25	158	ESACG 8 T
Hose i.D. 10	85	24	27	25	160	ESACG 10 T
Hose i.D. 13	85	24	27	25	165	ESACG 13 T
Hose i.D. 19	85	24	27	25	173	ESACG 19 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 3/8 m	46	19	12	28	41	ESACG 38 NAS
R 1/2 m	52	22	17	28	64	ESACG 12 NAS
R 3/4 m	54	27	19	28	85	ESACG 34 NAS

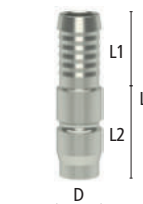
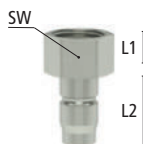
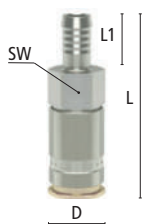
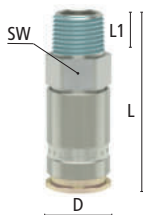
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	40	19	9	28	32	ESACG 38 NIS
G 1/2 f	44	24	12	28	51	ESACG 12 NIS
G 3/4 f	49	32	16	28	100	ESACG 34 NIS

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 8	55	15	24	28	28	ESACG 8 SS
Hose i.D. 10	55	15	25	28	26	ESACG 10 SS
Hose i.D. 13	55	15	25	28	30	ESACG 13 SS
Hose i.D. 16	55	18	25	28	35	ESACG 16 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Industrial Quick Connect Couplings

single shut-off **Series ESSCIG**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Very high flow rates at low pressure drop due to streamlined valve and optimised passage
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcraft at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction

Material

- Body, sleeve, valve body: Brass MS 58 nickel-plated
- Plug: Steel nickel-plated
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)
- Valve: Brass MS 58 plain

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN EN 10226	2900 l/min	One-hand	Single Shut-off	Air/Others	Scandinavia	Coupl. S / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	67	24	27	12	149	ESSCIG 14 A
R 3/8 m	67	24	27	12	157	ESSCIG 38 A
R 1/2 m	69	24	27	17	161	ESSCIG 12 A
R 3/4 m	69	27	27	17	169	ESSCIG 34 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	60	24	27	10	150	ESSCIG 14 I
G 3/8 f	60	24	27	11	159	ESSCIG 38 I
G 1/2 f	60	24	27	12	149	ESSCIG 12 I
G 3/4 f	64	32	27	16	214	ESSCIG 34 I

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	80	24	27	25	164	ESSCIG 9 T
Hose i.D. 10	80	24	27	25	164	ESSCIG 10 T
Hose i.D. 13	80	24	27	25	166	ESSCIG 13 T
Hose i.D. 16	80	24	27	25	166	ESSCIG 16 T
Hose i.D. 19	80	24	27	25	174	ESSCIG 19 T

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	39	17	12	21	30	ESSCIG 14 NAS
R 3/8 m	39	17	12	21	32	ESSCIG 38 NAS
R 1/2 m	43	22	17	21	35	ESSCIG 12 NAS
R 3/4 m	46	27	19	21	37	ESSCIG 34 NAS

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	36	17	10	21	36	ESSCIG 14 NIS
G 3/8 f	36	17	11	21	42	ESSCIG 38 NIS
G 1/2 f	39	24	12	21	41	ESSCIG 12 NIS
G 3/4 f	42	32	16	21	43	ESSCIG 34 NIS

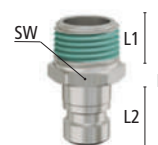
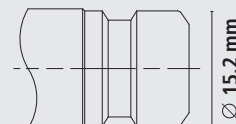
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 9	44	16	25	21	24	ESSCIG 9 SS
Hose i.D. 10	44	16	25	21	24	ESSCIG 10 SS
Hose i.D. 13	44	16	25	21	28	ESSCIG 13 SS
Hose i.D. 16	44	18	25	21	30	ESSCIG 16 SS
Hose i.D. 19	44	21	25	21	35	ESSCIG 19 SS

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

DN 10

Plug Profile (original size)

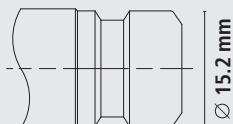


Industrial Quick Connect Couplings

Series ESSCIG double shut-off

DN 10

Plug Profile (original size)



- Top-quality, extreme robust quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Very high flow rates with low pressure drop due to streamlined valve and optimised passage
- Suitable for low vacuum at low couple force compared to all other compatible products
- **Attention: Single shut-off and double shut-off systems cannot be combined with one another**
- **For compressed air supply in industry and handcraft at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction**

Materials

- Body, sleeve, valve body, plug: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Springs: Stainless steel 1.4310 • Balls: Stainless steel 1.4034 • Seals: NBR (other materials on request)

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	10	ISO 228/DIN EN 10226	2650 l/min	Two-hands	Double Shut-off	Air/Others	Scandinavia	Coupl. 5 / Plug 10

Couplings with tapered male thread (thread coated)

Thread connection	L	SW	D	L1	Weight	Type No.
R 1/4 m	67	24	27	12	149	ESSCIG 14 AAB
R 3/8 m	67	24	27	12	157	ESSCIG 38 AAB
R 1/2 m	69	24	27	17	161	ESSCIG 12 AAB
R 3/4 m	69	27	27	17	169	ESSCIG 34 AAB

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	60	24	27	10	150	ESSCIG 14 IAB
G 3/8 f	60	24	27	11	159	ESSCIG 38 IAB
G 1/2 f	60	24	27	12	149	ESSCIG 12 IAB
G 3/4 f	64	32	27	16	214	ESSCIG 34 IAB

Couplings with hose barb

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	80	24	27	25	164	ESSCIG 9 TAB
Hose i.D. 10	80	24	27	25	164	ESSCIG 10 TAB
Hose i.D. 13	80	24	27	25	166	ESSCIG 13 TAB
Hose i.D. 16	80	24	27	25	166	ESSCIG 16 TAB
Hose i.D. 19	80	24	27	25	174	ESSCIG 19 TAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Plugs with tapered male thread (thread coated)

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/4 m	61	24	12	21	105	ESSCIG 14 NAAB
R 3/8 m	61	24	12	21	107	ESSCIG 38 NAAB
R 1/2 m	63	24	17	21	142	ESSCIG 12 NAAB
R 3/4 m	63	27	17	21	152	ESSCIG 34 NAAB

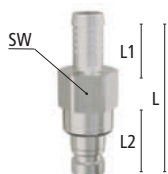
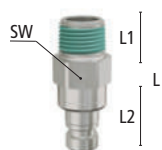
Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	55	24	11	21	122	ESSCIG 14 NIAB
G 3/8 f	55	24	11	21	124	ESSCIG 38 NIAB
G 1/2 f	55	24	12	21	140	ESSCIG 12 NIAB
G 3/4 f	59	32	16	21	152	ESSCIG 34 NIAB

Plugs with hose barb

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 9	74.5	24	25	21	110	ESSCIG 9 SAB
Hose i.D. 10	74.5	24	25	21	110	ESSCIG 10 SAB
Hose i.D. 13	74.5	24	25	21	112	ESSCIG 13 SAB
Hose i.D. 16	74.5	24	25	21	112	ESSCIG 16 SAB
Hose i.D. 19	74.5	24	25	21	107	ESSCIG 19 SAB

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Quick Connect Couplings

made of steel - single shut-off **Series F1K**

DN 8

- Extreme robust quick connect couplings for toughest working conditions i.e. in foundries

Materials

- Body, sleeve, valve body, plug: Steel zinc-plated and yellow passivated (free of chrome VI)
- Valve: Brass MS 58 plain
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)

Max. Work. Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of Valve	Media	Area	
PN 35 bar	-20°C – +100°C	8	ISO 228	1800 l/min	Two-hands	Single Shut-off	Compr. Air	Worldwide	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 m	67	24	37	10	240	F 1 K
G 1/2 m	67	24	37	10	245	F 12 K

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 m	51	19	10	34	54	F1K 38 G

Male thread sealing with PVC sealing ring type HPD (☺ page 212)

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	51	19	13	34	60	F1K 14 GI
G 3/8 m	51	22	13	34	69	F1K 38 GI

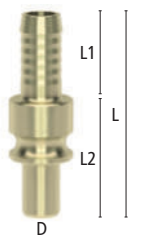
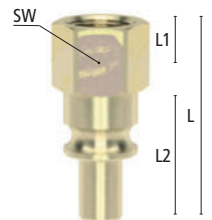
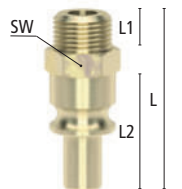
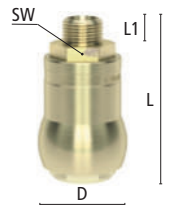
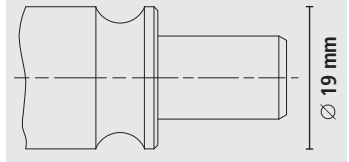
Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	60	19	25	35	39	F1K 6 S
Hose i.D. 9	60	19	25	35	39	F1K 9 S
Hose i.D. 11	60	19	25	35	43	F1K 11 S
Hose i.D. 13	60	19	25	35	45	F1K 13 S

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)

Special versions on request.

Plug Profile (original size)



Pneumatic Accessories

In addition to our coupling systems we offer a wide range of pneumatic accessories.

MODY Spiral Hoses made of Polyurethane



MODY spiral hoses have excellent properties allowing for flexible supply of compressed air. Even after severe deformation, MODY spiral hoses re-take their original shape. Despite their wide range, the spiral hoses make work much safer. We recommend to install them on the ceiling and to use high-quality, reusable and rotatable fittings with bend protection.

- Compressed Air Blow-off Sets
- MODY Spiral Hoses
- A:S:S Antistatic Spiral Hoses
- Flamex-Spark Protecting and Hot Water Spiral Hoses
- MODY Duo Spiral Hoses
- MODY CleanConnect Spiral Hoses
- Accessories for MODY Spiral Hoses
- MODY Spiral Hose Fittings

For a detailed description of **LUDECKE** MODY spiral hoses, please turn to page 104.

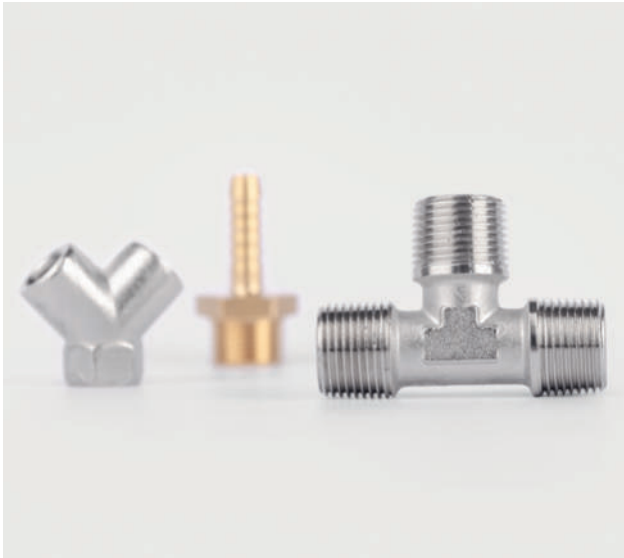
Blow-off Guns and Valves



For thorough and fast cleaning or drying of work pieces and worktops, compressed air blow-off guns and valves are chosen. Various types of nozzles offer the right dosage, the required air volume as well as low noise levels. For flexible use, we recommend a combination with MODY spiral hoses.

- Blow-off Valves made of Aluminium/ Brass/ Stainless Steel
- Blow-off Guns made of Aluminium/ Plastic
- Nozzles and Spare Parts for Compressed Air Blow-off Valves and Guns

Pneumatic Fittings



At **LUDECKE** you will get an extensive range of connecting fittings made of brass for various fields and applications.

- Pneumatic 1/3-Screwings made of Brass Plain
- Pneumatic 2/3-Screwings made of Brass Plain
- Pneumatic Fittings made of Brass Plain or Brass Nickel-Plated

Hexagon Ball Valves



Ball valves serve as shut-off fittings in pipe lines for compressed air and other media. They are especially suitable for industrial applications and seal through PTFE seals. Due to the compact control lever, miniature ball valves are ideally suited for very tight spaces.

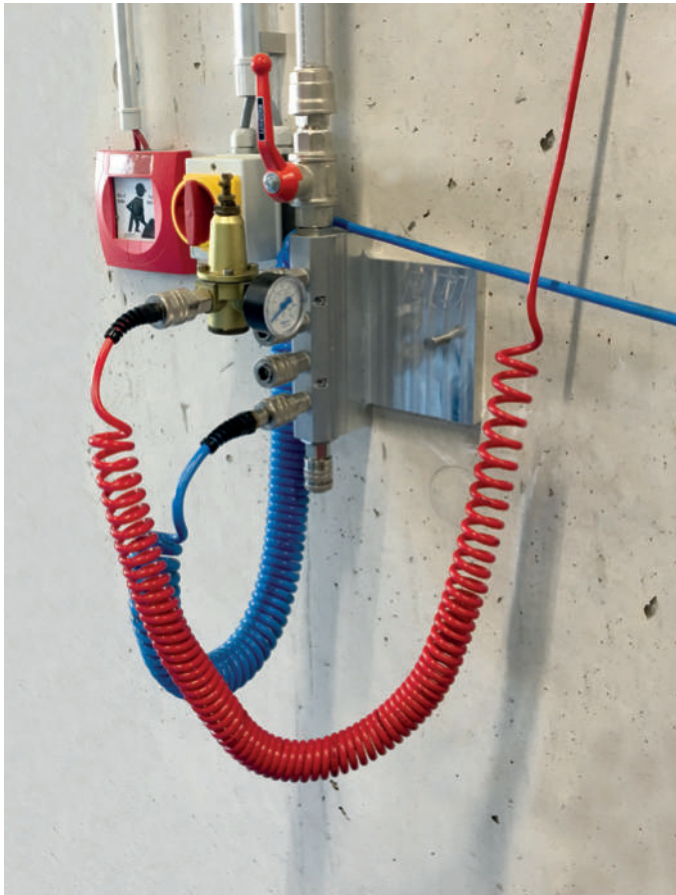
Hose Clamps, Hose Clips, Ferrules



To fix hoses to fittings, different assembly methods can be used ranging from robust clamps to light clips to ferrules. The assembly method depends on the application, media, pressure or hose material. Criteria are: safety level of fixation, removability, easiness and devices needed for assembly as well as cleanliness and protection against injury.

- Double-Ear Hose Clips
- High-Performance Hose Clips made of Steel or Stainless Steel
- Ferrules for Low Pressure Hose Lines
- Hand-Operated Assembly Machine

MODY Spiral Hoses made of Polyurethane



The polyurethane hoses are indispensable to any industrial undertaking. These multifunctional products make conveying of diverse media possible in the chosen operational area.

Although it sounds so plain and simple, when selecting a suitable product and/ or supplier, certain criteria should be taken into consideration. Because a polyurethane hose is not equally a polyurethane hose.

Advantages of the **LUDECKE** MODY Spiral Hose:

- Flexible supply of media: Even after severe deformation, the hose retake their original shape (extreme, enduring coil memory)
- Space saving despite a wide range
- Best mechanical properties: high resistance to abrasion, pressure, wear and kinking
- Free of plasticisers, heavy metals and silicone, recyclable, resistant to oil, antifreeze and fuels
- Various sizes for diverse operations

Why a MODY Spiral Hose from **LUDECKE**?

We explain, when you choose a **LUDECKE** polyurethane spiral hose, why you can always imagine being on the safe side and which parameters should be considered when purchasing.

First-class Suppliers

- Accredited suppliers from Germany
- Quality, service and sustainability
- Profound know-how and problem solving competence
- Optimised manufacturing

Premium Materials

- Selected raw materials
- Narrowest manufacturing tolerances
- Strict calibration
- Adapted to all needs: Polyester based – Polyether based

In-house Production

- Superior production machinery
- Qualified employees
- Continuous quality surveillance
- Permanent market orientation
- High flexibility

Selection & Service

- Various materials, lengths, diameters, colours, connections
- From straight meter goods to complete blow-off sets
- Individual custom-made products

First-class Suppliers



We obtain our extruded hoses from selected and accredited suppliers from Germany.

We place great value in our long-standing, trustworthy business relationship as well as the quality, service and sustainability. Manufacturing, processing parameters as well as the entire machinery and staff in charge are trained and optimised as best as possible. Profound know-how and problem solving competence is a top priority!

Premium Materials

Raw Material

We only use premium hoses made of elastollan. This offers best mechanical properties (especially a very high pressure resistance over a wide temperature span), including excellent permanent use attributes.

Many producers from the Far East cannot reach this high-quality level and often work with a so-called "re-granulate" (multiply processed raw material). This essentially decreases the mechanical properties of the hose (e.g. pressure resistance especially with high temperatures, abrasion, coil memory, etc.).

Production Tolerances

All materials succumb to the narrowest production tolerances. The strict compliance to these tolerances guarantee the usage of the product over the total length of the hose for the respective application. Individual production tolerances can be requested and adapted subject to required quantity.

Calibration

We pay close attention to calibrate the outer diameter and wall thickness of every individual hose. The **LUDECKE** MODY spiral hoses can therefore be used with diverse plug and screwing connections. Even the ovality (roundness) of the hose allows for tight connections. Thus, we guarantee a consistent high pressure resistance comparatively to large inner diameters.

Adapted to all needs: Polyester based - Polyether based

In order to meet all requirements and to provide every customer the best product, **LUDECKE** offers two different polyurethane materials: polyester based polyurethane and polyether based polyurethane. The main difference is the molecular structure.

Polyester-based Polyurethane

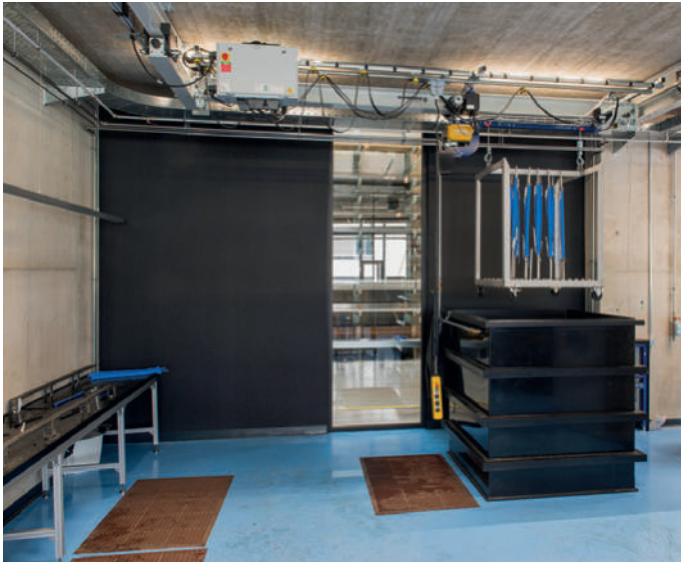
- For conventional indoor compressed air applications
- Best mechanical properties and very high pressure resistance for a wide temperature range (-35°C - +80°C)
- Very flexible with great coil memory
- Free of plasticisers
- Highly resistant against ultimate elongation and abrasion
- Suitable for vacuum applications
- Suitable for use in cable carriers

Polyether-based Polyurethane

- For applications with liquid media, outdoor areas as well as for food and medical applications*
- Resistant to hydrolysis and microbes, good resistance against many chemical contact agents
- Very flexible with great coil memory
- Free of plasticisers
- Highly resistant against ultimate elongation and abrasion
- Suitable for cable bundling, especially in combination with flame guarded cable installations
- Suitable for use in cable carriers

*please check separately

In-house Production



Quality and Own Production:

LUDECKE offers premium materials, superior production machinery and qualified employees. Moreover, we closely follow the latest requirements and trends in the market. Only by doing so, we can always provide top products.

Engineered and Made in Germany remains our promise.

LUDECKE has its own spiral hose fabrication for more than 25 years.

Which means: we not only produce our polyurethane spiral hoses with our well trained and qualified personnel ourselves, we also test them at the end according to very strict criteria.

Only when a hose meets the high-quality requirements, it will be included in our portfolio.

Our in-house production allows us to react to our customer's requests in a quick and flexible way.



Selection & Service



At **LUDECKE** you receive the MODY spiral hoses in various versions: there are a variety of materials, hose lengths, hose diameters, colours and connections available.

In addition we offer all the hoses non-coiled, available in meter lengths. Furthermore, our range covers a wide assortment of supplementary accessories (i.e. thread screws, quick connect couplings, plugs, blow-off guns and valves). We are happy to produce complete blow-off sets on request.

Our competent sales and technical team is always at your disposal for any further questions you may have for a custom-made product.

Compressed Air Blow-off Sets

Both Sides with Straight Ends

- MODY spiral hose with one-hand quick connect plug DN 7.2 at short end (10 cm) and blow-off gun (type APN or APK) at long end (50 cm), completely assembled
- Extraordinary elasticity and flexibility of the MODY spiral hose
- Space-saving despite high range
- Polyamide bend and scratch protection
- Comes with individual packaging (clean and safe transport)
- High quality, robust and handy blow-off guns
- [To clean working places and parts in industry, garages, and more](#)

Materials

- Spiral: Polyurethane (polyester-based polyurethane)
- Spring Guard: Polyamide
- Plug: Brass MS 58 plain
- Blow-Off Gun: Aluminium/ Plastic

Max. Work. Pressure	Temperature	Media	Colour	Short End	Long End	
PN 10 bar	-10°C – +85°C	Compr. Air	Blue / Yellow / Red	100	500	1

Compressed Air Blow-off Sets blue with Plug DN 7.2 and Blow-off Gun APNO completely assembled

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral Ø	Weight	Type No.
5/8	Plug ES DN 7.2	3000	4500	260	36	586	PUB 583 APN
5/8	Plug ES DN 7.2	6000	7500	510	36	710	PUB 586 APN
6.5/10	Plug ES DN 7.2	3000	4500	230	52	702	PUB 65103 APN
6.5/10	Plug ES DN 7.2	6000	7500	490	52	887	PUB 65106 APN



Compressed Air Blow-off Sets yellow with Plug DN 7.2 and Blow-off Gun APNO completely assembled

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral Ø	Weight	Type No.
5/8	Plug ES DN 7.2	3000	4500	260	36	586	PUG 583 APN
5/8	Plug ES DN 7.2	6000	7500	510	36	710	PUG 586 APN
6.5/10	Plug ES DN 7.2	3000	4500	230	52	702	PUG 65103 APN
6.5/10	Plug ES DN 7.2	6000	7500	490	52	887	PUG 65106 APN



Compressed Air Blow-off Sets red with Plug DN 7.2 and Blow-off Gun APKO completely assembled

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral Ø	Weight	Type No.
5/8	Plug ES DN 7.2	3000	4500	260	36	436	PUR 583 APK
5/8	Plug ES DN 7.2	6000	7500	510	36	560	PUR 586 APK
6.5/10	Plug ES DN 7.2	3000	4500	230	52	552	PUR 65103 APK
6.5/10	Plug ES DN 7.2	6000	7500	490	52	737	PUR 65106 APK



Sets with Blow-off Valves or other Blow-off Guns, Nozzles or Connections on request.

MODY Spiral Hoses made of Polyurethane

both Sides with Straight Ends

- High resistance to abrasion, pressure and wear
- Extreme and constant recoil of the spiral, small coil diameter
- Elasticity, flexibility and bend stability
- Free of plasticisers and heavy metals
- Free of silicone, recyclable, resistant to gas, oil and antifreeze
- Assortment of reusable connections (perfectly adapted)
- Space-saving despite high range
- Comes with individual packaging (clean and safe transport)
- For flexible supply of compressed air at pneumatic tools and assembly lines
- In pneumatics, automation, measuring and control technology, automotive industry, construction engineering, garages, and more
- Can be used for other media (on request)



MODY Spiral Hoses with Swivelling Screwings
on both sides assembled

Hose-		Hose Length		Outer Spiral Ø		Type No. Blue	Type No. Yellow	Type No. Red	Weight	Thread.
i.D. / a.D.	Max. Working L.		Block Length							
4/6	3000	4500	370	33		PUB 463 DVK	PUG 463 DVK	PUR 463 DVK	310	R 1/4 m
4/6	6000	7500	480	33		PUB 466 DVK	PUG 466 DVK	PUR 466 DVK	350	R 1/4 m
5/8	3000	4500	320	36		PUB 583 DVK	PUG 583 DVK	PUR 583 DVK	380	R 1/4 m
5/8	6000	7500	610	36		PUB 586 DVK	PUG 586 DVK	PUR 586 DVK	500	R 1/4 m
6.5/10	3000	4500	320	52		PUB 65103 DVK	PUG 65103 DVK	PUR 65103 DVK	500	R 1/4 m
6.5/10	6000	7500	550	52		PUB 65106 DVK	PUG 65106 DVK	PUR 65106 DVK	690	R 1/4 m
6.5/10	8000	10000	660	52		PUB 65108 DVK	PUG 65108 DVK	PUR 65108 DVK	800	R 1/4 m
8/12	3000	4500	270	65		PUB 8123 DVK	PUG 8123 DVK	PUR 8123 DVK	650	R 3/8 m
8/12	6000	7500	550	65		PUB 8126 DVK	PUG 8126 DVK	PUR 8126 DVK	1030	R 3/8 m
8/12	8000	10000	620	65		PUB 8128 DVK	PUG 8128 DVK	PUR 8128 DVK	1150	R 3/8 m
9/13	3000	4500	280	68		PUB 9133 DVK	PUG 9133 DVK	PUR 9133 DVK	670	R 3/8 m
9/13	6000	7500	500	68		PUB 9136 DVK	PUG 9136 DVK	PUR 9136 DVK	1080	R 3/8 m
9/13	8000	10000	700	68		PUB 9138 DVK	PUG 9138 DVK	PUR 9138 DVK	1260	R 3/8 m
11/16	3000	4500	270	90		PUB 11163 DVS	PUG 11163 DVS	PUR 11163 DVS	1150	R 1/2 m
11/16	6000	7500	540	90		PUB 11166 DVS	PUG 11166 DVS	PUR 11166 DVS	1840	R 1/2 m
11/16	8000	10000	600	90		PUB 11168 DVS	PUG 11168 DVS	PUR 11168 DVS	2053	R 1/2 m
13/19	3000	4500	300	125		PUB 13193 SVS	PUG 13193 SVS		1230	R 3/4 m
13/19	6000	7500	480	125		PUB 13196 SVS	PUG 13196 SVS		1940	R 3/4 m
13/19	8000	10000	550	125		PUB 13198 SVS	PUG 13198 SVS		2410	R 3/4 m

Hose i.D./o.D. 4/6; 5/8; 6.5/10 with new material quality for more flexibility at best pressure and temperature characteristics!

- NW/AD 4/6 with mini quick connect coupling and plug DN 5
- NW/AD 11/16 with spring made of nickel-plated steel
- NW/AD 13/19 with rigid fitting and spring made of steel

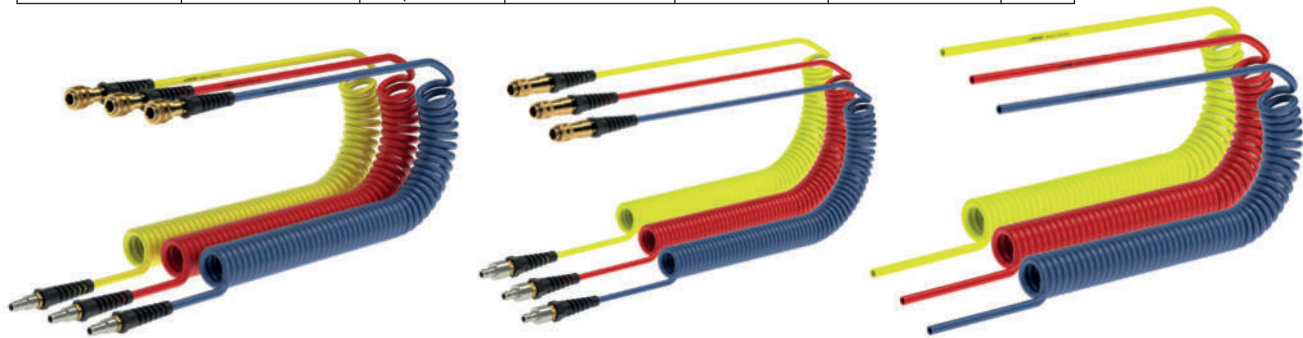


Polyurethane Hoses, non-coiled (minimum quantity 10 m/type)				
Hose i.D./o.D.	Weight g/m	Type No. Blue	Type No. Yellow	Type No. Red
4/6	20	PUB 46-R	PUG 46-R	PUR 46-R
5/8	40	PUB 58-R	PUG 58-R	PUR 58-R
6.5/10	55	PUB 6510-R	PUG 6510-R	PUR 6510-R
8/12	80	PUB 812-R	PUG 812-R	PUR 812-R
9/13	90	PUB 913-R	PUG 913-R	PUR 913-R
11/16	130	PUB 1116-R	PUG 1116-R	PUR 1116-R
13/19	175	PUB 1319-R	PUG 1319-R	

Materials

- Hose: Polyurethane (polyester-based polyurethane)
- Spring Guard: Polyamide/ Steel
- Screwing: Brass MS 58 plain, thread coated/ Steel nickel-plated
- Quick Connect Coupling: Brass MS 58 plain
- Plug: Steel hardened and nickel-plated

Max. Work.Pressure	Temperature	Media	Colours	Short End	Long End	
PN 10 bar	-20°C – +85°C	Compr. Air / Others	Blue / Yellow / Red	100	500	1



MODY Spiral Hoses with Swivelling One-Hand Quick Connect Coupling and Plug DN 7.2 assembled

MODY Spiral Hoses without Fittings

Type No. Blue	Type No. Yellow	Type No. Red	Weight	Type No. Blue	Type No. Yellow	Type No. Red	Weight
●PUB 463 ESM	PUG 463 ESM	PUR 463 ESM	310	PUB 463	PUG 463	PUR 463	230
●PUB 466 ESM	PUG 466 ESM	PUR 466 ESM	340	PUB 466	PUG 466	PUR 466	260
PUB 583 ES	PUG 583 ES	PUR 583 ES	420	PUB 583	PUG 583	PUR 583	280
PUB 586 ES	PUG 586 ES	PUR 586 ES	550	PUB 586	PUG 586	PUR 586	400
PUB 65103 ES	PUG 65103 ES	PUR 65103 ES	545	PUB 65103	PUG 65103	PUR 65103	370
PUB 65106 ES	PUG 65106 ES	PUR 65106 ES	730	PUB 65106	PUG 65106	PUR 65106	560
PUB 65108 ES	PUG 65108 ES	PUR 65108 ES	850	PUB 65108	PUG 65108	PUR 65108	680
PUB 8123 ES	PUG 8123 ES	PUR 8123 ES	690	PUB 8123	PUG 8123	PUR 8123	470
PUB 8126 ES	PUG 8126 ES	PUR 8126 ES	1070	PUB 8126	PUG 8126	PUR 8126	850
PUB 8128 ES	PUG 8128 ES	PUR 8128 ES	1190	PUB 8128	PUG 8128	PUR 8128	980
PUB 9133 ES	PUG 9133 ES	PUR 9133 ES	710	PUB 9133	PUG 9133	PUR 9133	504
PUB 9136 ES	PUG 9136 ES	PUR 9136 ES	1120	PUB 9136	PUG 9136	PUR 9136	914
PUB 9138 ES	PUG 9138 ES	PUR 9138 ES	1300	PUB 9138	PUG 9138	PUR 9138	1090
				PUB 11163	PUG 11163	PUR 11163	760
				PUB 11166	PUG 11166	PUR 11166	1370
				PUB 11168	PUG 11168	PUR 11168	1580
				PUB 13193	PUG 13193		807
				PUB 13196	PUG 13196		1510
				PUB 13198	PUG 13198		1960

- With increased purchase quantity other colours, hose dimensions, hose lengths and spiral diameters - according to your specifications - are possible
- If our standard range doesn't meet your requirements, you can create your own combination consisting of fittings and a hose. The fittings can be added to the hose resp. can be assembled from 10 pcs./type onward in our factory. We assume no liability for products, that are not assembled in-house. (Additional cost: Euro 3.14 net/piece)
- Please also note our complementary products e.g. our complete range of quick connect couplings (☺ page 32), pneumatic fittings (☺ page 122) or blow-off guns (☺ page 119)

Necessary data for special versions

Dimensions/ Characteristics:	Fittings:
AL Working Length	Type No. Short End
L 1 Short End	
L 2 Long End	Type No. Long End
D Spiral	
i.D./o.D. Size of hose	
Colour	
Labelling	

A : S : S Antistatic Spiral Hoses made of Polyurethane

Both Sides with Straight Ends

- Special spiral hose, suitable for explosion proof areas according to guideline 94/9/EG (ATEX)
- Same advantages as a MODY spiral hose
- Avoids static loadings, surface resistance $\leq 10^6 \Omega$
- Outside calibrated, suitable for push-in fittings
- Resistant to microbes, hydrolysis and UV
- Can be used for vacuum applications
- To be used for the production of electronic parts, in surface treatment industry, mining and tunnelling, for transport or assortment of parts

Materials

- Hose: Polyurethane (polyether-based polyurethane)
- Spring Guard: Polyamide
- Screwing: Brass MS 58 plain, thread coated

Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	
PN 12 bar	-20°C – +85°C	Compr. Air, Water etc.	Black	100	500	1

A : S : S Antistatic Spiral Hoses made of Polyurethane

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral \varnothing	Weight	Type No.
6/8	without	3000	4500	320	36	260	PUAS 683
6/8	without	6000	7500	610	36	380	PUAS 686
6/8	2 x R 1/4 m rigid	3000	4500	320	36	380	PUAS 683 SVK
6/8	2 x R 1/4 m rigid	6000	7500	610	36	500	PUAS 686 SVK
7.5/10	without	3000	4500	320	52	330	PUAS 75103
7.5/10	without	6000	7500	550	52	520	PUAS 75106
7.5/10	2 x R 1/4 m rigid	3000	4500	320	52	470	PUAS 75103 SVK
7.5/10	2 x R 1/4 m rigid	6000	7500	550	52	660	PUAS 75106 SVK
9/12	without	3000	4500	270	65	430	PUAS 9123
9/12	without	6000	7500	550	65	810	PUAS 9126
9/12	2 x R 3/8 m rigid	3000	4500	270	65	580	PUAS 9123 SVK
9/12	2 x R 3/8 m rigid	6000	7500	550	65	960	PUAS 9126 SVK

Other hose dimensions or working lengths on request.

A : S : S Antistatic Polyurethane Hose, non-coiled (minimum quantity 10 m/ type)

Hose i.D./o.D.	Weight g/m	Type No.
6/8	40	PU-AS 68-R
7.5/10	50	PU-AS 7510-R
9/12	70	PU-AS 912-R

Complementary Products

One-hand quick connect couplings (☺ page 32)

Pneumatic screwings (☺ page 122)

Blow-off guns and valves (☺ page 119)



Flamex-Spark Protecting and Hot Water Spiral Hoses made of Polyurethane Both Sides with Straight Ends

- Spiral hoses made of special polyurethane, high-quality and extreme robust, resistant to sparks and spatters (sparks run down) → same advantages as a MODY spiral hose
- Fluoride-free, halogen-free, silicon-free, resistant to hydrolysis
- Extremely burn resistant, burn classification according to UL 94 =VO
- Outside calibrated, suitable for drag chain, durable
- Application: For compressed air and water supply at extreme conditions in industry (e.g. on welding robots, plastic injection machines) in garages, welding places, railway, public buildings, mechanical engineering

Materials

- Hose: Polyurethane (polyether-based polyurethane)
- Spring Guard: Polyamide
- Screwing: Brass MS 58 plain, thread coated

Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	
PN 12 bar	-20°C – +85°C	Compr. Air, Water etc.	Black	100	500	1

Flamex-Spark Protecting and Hot Water Spiral Hoses made of Polyurethane

Hose-		Max. Work. Length	Block Length		Weight		
i.D./-o.D.	Connection	Hose Length		Outer Spiral Ø		Type No.	
6/10	without	3000	4500	320	52	320	PUFS 6103
6/10	without	6000	7500	550	52	500	PUFS 6106
6/10	without	8000	10000	660	52	620	PUFS 6108
swivelling 6/10	2 x R 1/4 m swivelling	3000	4500	320	52	450	PUFS 6103 DVK
swivelling 6/10	2 x R 1/4 m swivelling	6000	7500	550	52	630	PUFS 6106 DVK
swivelling 6/10	2 x R 1/4 m swivelling	8000	10000	660	52	750	PUFS 6108 DVK
8/12	without	3000	4500	275	65	440	PUFS 8123
8/12	without	6000	7500	550	65	720	PUFS 8126
8/12	without	8000	10000	635	65	950	PUFS 8128
swivelling 8/12	2 x R 3/8 m swivelling	3000	4500	275	65	520	PUFS 8123 DVK
swivelling 8/12	2 x R 3/8 m swivelling	6000	7500	550	65	800	PUFS 8126 DVK
swivelling 8/12	2 x R 3/8 m swivelling	8000	10000	635	65	1130	PUFS 8128 DVK



Flamex Polyurethane Hose, non-coiled (minimum quantity 10 m/ type)

Hose i.D./o.D.	Weight g/m	Type No.
6/10	70	FSS 610-R
8/12	95	FSS 812-R

Complementary Products

One-hand quick connect couplings (☺ page 32)

Pneumatic screwings (☺ page 122)

Blow-off guns and valves (☺ page 119)



MODY Duo Spiral Hoses made of Polyurethane

Both Sides with Straight Ends

- Combination with two spiral hoses (also multiple combinations possible)
- Same advantages as a MODY spiral hose
- Easy assembling with swivelling fittings on both sides
- **Application:** In fluid-control, on measuring devices, automation, for different media or to be able to distinguish between different compressed air lines, etc.

Materials

- Hose: Polyurethane (polyether-based polyurethane)
- Spring Guard: Polyamide
- Screwing: Brass MS 58 plain, thread coated

Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	
PN 10 bar	-20°C – +85°C	Compr. Air	Blue / Yellow	100	500	1

MODY Duo Spiral Hoses made of Polyurethane

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral	Weight	Type No.
6,5/10	without	3000	4500	450	65	750	PUBG 65103
6,5/10	without	6000	7500	770	65	1120	PUBG 65106
6,5/10	4 x R 1/4 m swivelling	3000	4500	450	65	1000	PUBG 65103 DVK
6,5/10	4 x R 1/4 m swivelling	6000	7500	770	65	1370	PUBG 65106 DVK

MODY Duo Polyurethane Hose, non-coiled (minimum quantity 10 m/ type)

Hose i.D./o.D.	Weight g/m	Type No.
6.5/10	78	PUBG 6510-DUO

Complementary Products

One-hand quick connect couplings (☺ page 32)

Pneumatic screwings (☺ page 122)

Blow-off guns and valves (☺ page 119)



swivelling
swivelling

MODY CleanConnect Spiral Hoses made of Polyurethane

Both Sides with Straight Ends for the Food Industry and Pharmacy

- High resistance to abrasion, pressure and wear as well as extreme and constant recoil of the spirals
- Perfect elasticity, flexibility, can be driven over, crush-resistant, free of taste and smell
- Resistant to microbes and hydrolysis, oil, gas and chemicals, good cold flexibility
- Polyurethane food-safe according to FDA 21 CFR 177.2600 and 178.2010, EU regulation 10/2011 and the newest regulation 2015/174
- Approved according to the EU regulation 1935/2004
- Production process according to GMP EC 2023/2006
- For pneumatic applications as well as for liquids, gases and abrasive solids
- For applications in the food industry (e.g. food conveying: dry, watery, acidic and fatty foods), pharmaceutical industry (FDA, EU regulation)

Materials

- Hose: Polyurethane (polyether-based polyurethane)
- Coupling, plug: Stainless steel 1.4305

Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	
PN 12 bar	-40°C – +90°C	Diverse	Transparent	100	500	1

MODY CleanConnect Spiral Hoses made of Polyurethane

Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral	Weight	Type No.
8/12	without	3000	4700	240	75	345	PUL 8123
8/12	without	6000	7600	400	75	555	PUL 8126
8/12	without	8000	9700	540	75	710	PUL 8128
8/12	ESE-coupling + plug rigid	3000	4700	240	75	505	PUL 8123 ESE
8/12	ESE-coupling + plug rigid	6000	7600	400	75	715	PUL 8126 ESE
8/12	ESE-coupling + plug rigid	8000	9700	540	75	870	PUL 8128 ESE

MODY CleanConnect Polyurethane Hose, non-coiled (minimum quantity 10 m/type)

Hose i.D./o.D.	Weight g/m	Type No.
8/12	80	PUL 812

Complementary Products

Quick connect couplings made of stainless steel (☎ page 286)

Blow-off valve made of stainless steel (☎ page 118)

**Clean
Connect**
by **LUDECKE**

Food-Safe



Accessories for Mody Spiral Hoses

Hose Pincer and Replacement Blade

Type		Material	Weight	Type No.
Hose Pincer (for o.D. 1-19 mm)	1 (pc.)	Steel	242	SZ-PU
Replacement Blade	1 set (2 pc.)	Steel	8	MSZ



MODY Spiral Hose Fittings

made of Brass or Steel Nickel-Plated with Hose Strain Relief Guards

- All fittings removable and reusable
- Maximum bore for maximum flow-capacity
- Exactly adapted to PU-dimensions and degree of hardness
- Extreme pull and pressure-resistant
- Male threads tapered and environmentally friendly Loctite-coated
- One-hand quick connect couplings (standard system DN 7.2 and DN 5)
- Swivelling screwings with double O-ring sealing and retaining ring, easy to turn under pressure
- On request, all fittings also available with springs made of steel

Materials

- Screwing: Brass MS 58 plain (thread coated)/ steel nickel-plated
- Quick connect couplings: Brass MS 58 plain
- Plug: Brass MS 58 plain/ steel hardened and nickel-plated • Spring: Polyamide / stainless steel 1.4310

Max. Work. Pressure	Temperature	Thread	Media	
PN 15 bar	-40°C – +85°C	ISO 228 / DIN EN 10226	Compr. Air a.o.	5

Swivelling Squeeze Nut with tapered male thread (thread coated) and hose strain relief guards

Thread Connection	For hose i.D./o.D.	Passage	Material	Weight	Type No.
R 1/4 m	4/6	3	MS 58	43	DVK 4614
R 1/4 m	5/8	4.5	MS 58	53	DVK 5814
R 1/4 m	6.5/10	5.5	MS 58	64	DVK 651014
R 1/4 m	8/12	7	MS 58	88	DVK 81214
R 3/8 m	8/12	7	MS 58	88	DVK 81238
R 3/8 m	9/13	8	MS 58	82	DVK 91338
R 1/2 m	11/16	10	Steel	239	DVS 111612*

Swivelling Squeeze Nut with parallel female thread and hose strain relief guards

Thread Connection	For hose i.D./o.D.	Passage	Material	Weight	Type No.
G 1/4 f	5/8	4.5	MS 58	58	DVK 5814 I
G 1/4 f	6.5/10	5.5	MS 58	70	DVK 651014 I
G 3/8 f	8/12	7	MS 58	80	DVK 81238 I
G 3/8 f	9/13	8	MS 58	74	DVK 91338 I
G 1/2 f	11/16	10	Steel	254	DVS 111612 I*

Rigid Squeeze Nut with tapered male thread (thread coated) and hose strain relief guards

Thread Connection	For hose i.D./o.D.	Passage	Material	Weight	Type No.
R 1/4 m	4/6	3	MS 58	25	SVK 4614
R 1/4 m	5/8	4.5	MS 58	29	SVK 5814
R 1/4 m	6.5/10	5.5	MS 58	43	SVK 651014
R 1/4 m	8/12	7	MS 58	56	SVK 81214
R 3/8 m	8/12	7	MS 58	63	SVK 81238
R 3/8 m	9/13	8	MS 58	59	SVK 91338
R 1/2 m	11/16	10	Steel	171	SVS 111612*
R 1/2 m	13/19	12	Steel	205	SVS 131912*
R 3/4 m	13/19	12	Steel	210	SVS 131934*

On request also available in stainless steel 1.4305 against extra charge

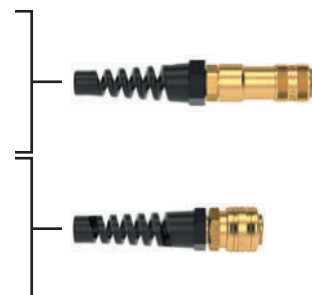
Rigid Squeeze Nut with parallel female thread and hose strain relief guards

Thread Connection	For hose i.D./o.D.	Passage	Material	Weight	Type No.
G 1/4 f	4/6	3	MS 58	25	SVK 4614 I
G 1/4 f	5/8	4.5	MS 58	31	SVK 5814 I
G 1/4 f	6.5/10	5.5	MS 58	48	SVK 651014 I
G 3/8 f	8/12	7	MS 58	66	SVK 81238 I
G 3/8 f	9/13	8	MS 58	62	SVK 91338 I
G 1/2 f	11/16	10	Steel	180	SVS 111612 I *

*with spring made of steel, male thread not coated

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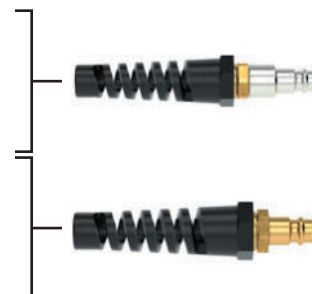
One-Hand Quick Connect Couplings with squeeze nut and hose strain relief guards					
Hose Connection	Connection	Material	Version	Weight	Type No.
For hose i.D./o.D. 4/6	Coupling ESM DN 5	MS 58	swivelling	55	ESM 4 DVK
For hose i.D./o.D. 5/8	Coupling ES DN 7.2	MS 58	swivelling	65	ES 5 DVK
For hose i.D./o.D. 6.5/10	Coupling ES DN 7.2	MS 58	swivelling	111	ES 65 DVK
For hose i.D./o.D. 8/12	Coupling ES DN 7.2	MS 58	swivelling	115	ES 8 DVK
For hose i.D./o.D. 9/13	Coupling ES DN 7.2	MS 58	swivelling	131	ES 9 DVK
For hose i.D./o.D. 4/6	Coupling ESM DN 5	MS 58	rigid	45	ESM 4 SVK
For hose i.D./o.D. 5/8	Coupling ES DN 7.2	MS 58	rigid	55	ES 5 SVK
For hose i.D./o.D. 6.5/10	Coupling ES DN 7.2	MS 58	rigid	95	ES 65 SVK
For hose i.D./o.D. 8/12	Coupling ES DN 7.2	MS 58	rigid	103	ES 8 SVK
For hose i.D./o.D. 9/13	Coupling ES DN 7.2	MS 58	rigid	98	ES 9 SVK



swivelling
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One-Hand Quick Connect Plugs with squeeze nut and hose strain relief guards					
Hose Connection	Connection	Material	Version	Weight	Type No.
For hose i.D./o.D. 4/6	Plug ESM DN 5	Steel hardened	swivelling	37	ESM 4 SDVK
For hose i.D./o.D. 5/8	Plug ES DN 7.2	Steel hardened	swivelling	50	ES 5 SDVK
For hose i.D./o.D. 6.5/10	Plug ES DN 7.2	Steel hardened	swivelling	62	ES 65 SDVK
For hose i.D./o.D. 8/12	Plug ES DN 7.2	Steel hardened	swivelling	78	ES 8 SDVK
For hose i.D./o.D. 9/13	Plug ES DN 7.2	Steel hardened	swivelling	75	ES 9 SDVK
For hose i.D./o.D. 4/6	Plug ESM DN 5	MS 58	rigid	17	ESM 4 SSVK*
For hose i.D./o.D. 5/8	Plug ES DN 7.2	MS 58	rigid	34	ES 5 SSVK
For hose i.D./o.D. 6.5/10	Plug ES DN 7.2	MS 58	rigid	46	ES 65 SSVK
For hose i.D./o.D. 8/12	Plug ES DN 7.2	MS 58	rigid	59	ES 8 SSVK
For hose i.D./o.D. 9/13	Plug ES DN 7.2	MS 58	rigid	57	ES 9 SSVK

*Plug ESM 4 SSVK nickel-plated



Squeeze nut to connect with MODY spiral hoses (only to connect with or in exchange for original **LUDECKE** MODY spiral hoses!) with compressed air lines or tools.



Compressed Air Blow-off Valves

made of Aluminium/ Brass - Standard Version

- Robust blow-off valves for continuous use at extreme conditions
- For cleaning of worktops or work pieces in industry, craftsmanship, garages, foundries, etc

Materials

- Blow-off valves: Aluminium/ Brass MS 58 plain
- Nozzle: Steel zinc-plated

Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C – +100°C	ISO 228	Compressed Air	5

Compressed Air Blow-off Valves made of Aluminium

Connection	L	D	Version	Connection Nozzle	Nozzle bore	Weight	Type No.
G 1/4 f	108	22	with nozzle H2	G 3/8 f	2	110	AHL 14 I
Hose i.D. 6	115	22	with nozzle H2	G 3/8 f	2	104	AHL 6
Hose i.D. 9	115	22	with nozzle H2	G 3/8 f	2	105	AHL 9
Hose i.D. 13	115	22	with nozzle H2	G 3/8 f	2	108	AHL 13
Hose i.D. 15	115	22	with nozzle H2	G 3/8 f	2	111	AHL 15

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Compressed Air Blow-off Valves made of Brass

Connection	L	D	Version	Connection Nozzle	Nozzle bore	Weight	Type No.
Hose i.D. 6	115	22	with nozzle H2	G 3/8 f	2	206	AHM 6
Hose i.D. 9	115	22	with nozzle H2	G 3/8 f	2	210	AHM 9
Hose i.D. 11	115	22	with nozzle H2	G 3/8 f	2	217	AHM 11
Hose i.D. 13	115	22	with nozzle H2	G 3/8 f	2	219	AHM 13
G 1/4 m	115	22	with nozzle H2	G 3/8 f	2	209	AHM 14

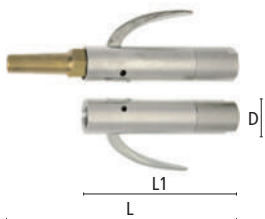
For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Compressed Air Blow-off Valves made of Aluminium or Brass - Long ergonomic version

Thread connect.	L	D	L1	Version	Connect. Nozzle	Material	Weight	Type No.
G 3/8 f	-	22	105	w/o nozzle (G 3/8 f)	G 3/8 f	Aluminium	95	AHL 38 IL
G 3/8 f	152	22	105	nozzle LSD 38	G 3/8 f	Aluminium/Brass	164	AHL 38 IL-LSD
G 3/8 f	152	22	105	nozzle LSD 38	G 3/8 f	Brass	279	AHM 38 IL-LSD

Connections with male thread stems type T...M hose i.D. 6-13 mm



Nozzles and Spare Parts

for Compressed Air Blow-off Valves Type AHL / AHM

- Multi-functional nozzle
 - 20 % higher blowing power at same air consumption as standard nozzle
 - Safety function (air shield against back-whirling dirt)
 - Injector function
 - Noise reduction to 83 DB
 - According to US-safety norm OSHA

- Complementary nozzles and spare parts

Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C – +100°C	ISO 228 / DIN 13	Air / Others	10

Multi-functional nozzle for compressed air blow-off valves type AHL/ AHM

Thread connection	Nozzle bore	Material	Weight	Type No.
G 3/8 m	1.5	Steel	41	MFD 2



Nozzles with male thread G 3/8 m for compressed air blow-off valves type AHL/M

Description	Material	Weight	Type No.
➊ Pointed nozzle	Steel	30	Düse H2
➋ Noise damping nozzle	Steel	23	Düse GD2
➌ Safety nozzle	Steel	45	Düse SD2
➍ Noise damping safety nozzle	Steel	44	Düse GSD2
➎ Injection nozzle	Steel	45	Düse J2
Extension nozzle	Steel	35	Düse VD2
Noise damping nozzle	MS 58	69	LSD 38



Pointed Nozzle



Noise damping Nozzle



Safety Nozzle



Noise damping safety Nozzle



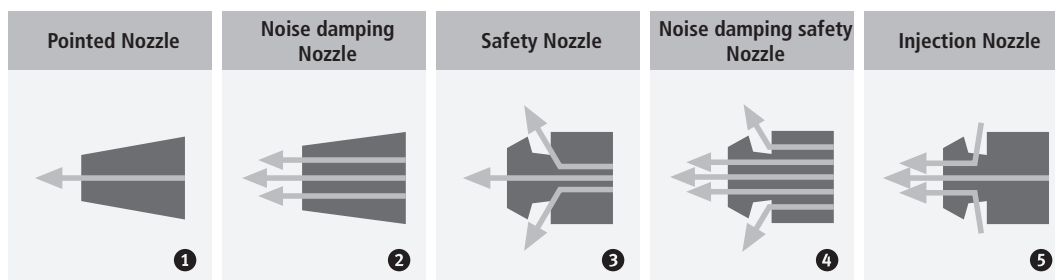
Extension Nozzle



Noise damping Nozzle

Spare parts for blow-off valves type AHL/M

Description	Type No.
Valve pin with O-ring	AH-VSTIFT
Valve with spring	AH-AVKO
Handle	AH-HEBEL
Connection stem Hose i.D. 6-15 Alu	TÜLLE AT..L
Connection stem Hose i.D. 6-15 Brass MS 58	TÜLLE AT..M



Compressed Air Blow-off Valves

made of Aluminium - Large Bore Version

- Robust blow-off valves for permanent use at heavy working conditions
- Nozzle bore 8 mm for high flow rates i.e. for cleaning of heavy castings
- For cleaning of worktops or work pieces in industry, craftsmanship, garages, etc.

Materials

- Blow-off valves: Aluminium
- Nozzle: Aluminium

Max. Working Pressure	Temperature	Media	
PN 12 bar	-20°C – +100°C	Compressed Air, Water	1

Compressed Air Blow-off Valves made of Aluminium

Hose connection	L	D	Nozzle bore	Weight	Type No.
Hose i.D. 13	185	35	8	338	AHLG 13
Hose i.D. 19	185	35	8	352	AHLG 19

For hose clips type ZOS (© page 130), type HS (© page 131) or crimping ferrules type LPH (© page 133)



Compressed Air Blow-off Valve

made of Stainless Steel

- Blow-off valve made of stainless steel for permanent use at heavy working conditions
- For cleaning of worktops or work pieces in applications with strict hygiene requirements

Materials

- Blow-off valve: Stainless steel 1.4305
- Handle: Stainless steel 1.4308

Max. Working Pressure	Temperature	Media	
PN 12 bar	-40°C – +90°C	Compressed Air	1

Compressed Air Blow-off Valve made of Stainless Steel

Connection	Version	Nozzle bore	L	D	Weight	Type No.
Plug ESE	with nozzle HE2	2	108	22	277	AHLE ESE



Compressed Air Blow-off Guns

made of Forged Aluminium - Standard Version

- High quality, robust, handy, for continuous use
- With long handle, suspension bow and different connections
- For cleaning of worktops or work pieces in industry, craftsmanship, garages, etc.

Materials

- Blow-off Gun: Aluminium
- Valve: Steel zinc-plated

Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C – +100°C	ISO 228 / DIN 13	Compressed Air	5

Blow-off Gun Standard

Connection	L	B	Version	Connection Nozzle	Nozzle bore	Weight	Type No.
G 1/4 f	140	77	w/o valve	M 12x1.25 f	-	222	APN 00
G 1/4 f	160	90	valve P1	M 12x1.25 f	2	237	APN 0
Hose i.D. 6	175	90	valve P1	M 12x1.25 f	2	254	APN 6
Hose i.D. 9	175	90	valve P1	M 12x1.25 f	2	260	APN 9
Hose i.D. 11	175	90	valve P1	M 12x1.25 f	2	264	APN 11
Hose i.D. 13	175	90	valve P1	M 12x1.25 f	2	277	APN 13
G 1/4 m	160	90	valve P1	M 12x1.25 f	2	256	APN 14
ES 14 NA	170	90	valve P1	M 12x1.25 f	2	259	APN 14 NA



Compressed Air Blow-off Guns

made of Forged Aluminium - Dosage

- Air stream can be smoothly dosed for customized blow-off power
- High-quality, robust, handy, for continuous use
- With long handle, suspension bow and different connections
- APND-NA-MFD with plug DN 7.2 to be connected with hoses (that are installed on the ceiling and assembled with angle coupling DN 7.2 ES..T-90)
- For cleaning of worktops or work pieces in industry, craftsmanship, garages, etc.

Materials

- Blow-off Gun: Aluminium
- Valve: Steel zinc-plated

Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C – +100°C	ISO 228 / DIN 13	Compressed Air	5

Blow-off Gun Dosage

Connection	L	B	Version	Connection Nozzle	Nozzle bore	Weight	Type No.
G 1/4 f	140	77	w/o valve	M 12x1.25 f	-	222	APND 00
G 1/4 f	160	90	valve P1	M 12x1.25 f	2	237	APND 0
G 1/4 f	160	90	MFD 1	M 12x1.25 f	1.5	268	APND 0 MFD
Plug DN 7.2	160	110	MFD 1	M 12x1.25 f	1.5	290	APND-NA-MFD



Nozzles and Spare Parts

for Compressed Air Blow-off Guns Type APN and APND

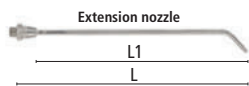
- Multi-functional nozzle
 - 20 % higher blowing power at same air consumption as standard nozzle
 - Safety function (air shield against back-whirling dirt)
 - Injector function
 - Noise reduction to 83 DB
 - According to US-safety norm OSHA
- Complementary valves, screwings and spare parts



Max. Working Pressure	Temperature	Thread	Media	
PN 12 bar	-20°C – +100°C	ISO 228 / DIN 13	Air / Others	5/10

Multi-functional nozzle for compressed air blow-off guns type APN and APND

Thread connection	Nozzle bore	Material	Weight		Type No.
M 12x1.25	1.5	Steel	31	5	MFD 1



Safety nozzle



Injection nozzle



Adjustable nozzle OSHA/SUVA

Nozzles for Blow-off Guns type APN and APND with male thread M 12 x 1.25

Description	Thread connect.	L	L1	Material		Weight	Type No.
① Pointed nozzle	M 12x1.25 m			Steel	10	20	DÜSE P1
② Noise damping nozzle	M 12x1.25 m			Steel	10	13	DÜSE GD1
③ Safety nozzle	M 12x1.25 m			Steel	10	30	DÜSE SD1
④ Noise damping safety nozzle	M 12x1.25 m			Steel	10	27	DÜSE GSD1
⑤ Injection nozzle	M 12x1.25 m			Steel	10	31	DÜSE J1
Extension nozzle straight	M 12x1.25 m	160	145	Brass MS nickel-pl.	10	25	DÜSE VD1
Extension nozzle curved	M 12x1.25 m	115	100	POM/Steel nickel-pl.	5		DÜSE VDG 120
Extension nozzle curved	M 12x1.25 m	160	145	Brass MS nickel-pl.	5		DÜSE VDG 165
Extension nozzle curved	M 12x1.25 m	260	245	Brass MS nickel-pl.	5		DÜSE VDG 260
Noise damping nozzle	M 12x1.25 m			Die cast zinc	10	59	LSD 125
Adjustable nozzle OSHA/SUVA	M 12x1.25 m			ALU/ POM	5		DÜSE GD1 O

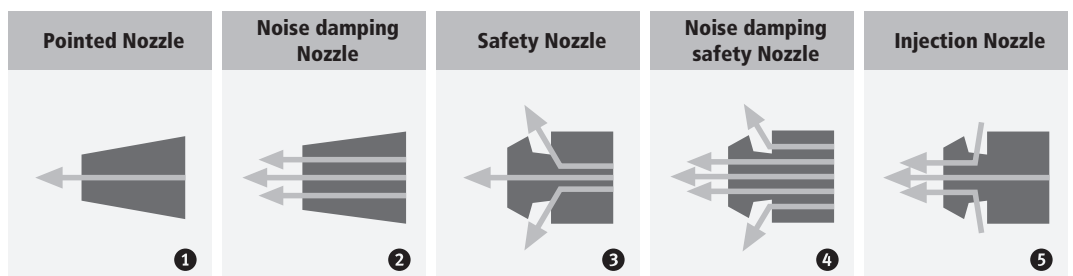


Swivel head screwing for trimming of blow-off nozzles

Thread connection	L	SW	D	L1	L2	Material	Displacement		Weight	Type No.
G 1/4 m - G 1/4 f	53	22	27	9	10	Brass MS 58 plain	approx. 47°	10	104	KGV 14

Spare Parts for compressed air Blow-off Guns type APN

Description		Type No.
Valve pin with O-ring	10	APN-VSTIFT
Valve with spring	10	APN-PVK
Handle	10	APN-HEBEL
Plug with O-ring	10	APN-STOPFEN



Compressed Air Blow-off Guns

made of Plastic

- Blow-off gun made of robust, scratchproof, isolating and nonslip composite material
- Perfectly adapted to the shape of the hand and thus particularly ergonomic
- Input connector meshed with brass insert: absolutely safe and tight when mounting
- Targeted jet, nozzle angle and natural alignment of the air jet enable precise working
- Fine dosing, for precise adjustment of the jet only a small amount of operational force is needed
- Absolutely tight system, thus no foreign bodies are able to intrude and block the mechanism
- Smooth surface without irregularities, therefore no dust deposits at the nozzle and body are possible
- 2 possibilities for hanging, safe and easy
- For cleaning of worktops or work pieces in industry, craftsmanship, garages, etc.

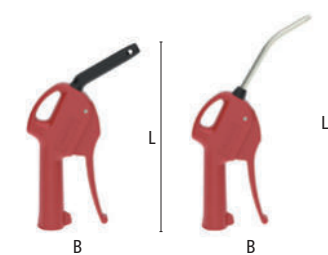
Materials

- Body: Plastic
- Incoming connection: Brass
- Nozzle: Direct blow-off nozzle - steel, OSHA nozzle - composite material

Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	-15°C – +70°C	ISO 228	Compressed Air	5

Compressed Air Blow-off Guns made of Plastic

Connection	L	B	Nozzle bore	Weight	Type No.
G 1/4 f	164	200	6	110	APK 0
Plug DN 7.2	164	200	6	110	APK 14 NA
G 1/4 f	140	168	12	110	APK 0-OSHA
Plug DN 7.2	140	168	12	110	APK-OSHA 14 NA



Pneumatic Fittings

made of Brass Plain

- For technology, compressed air, automation, measure, control and regulation technology, welding, etc.

Pneumatic 1/3-Screwings

Materials

- Screwings: Brass MS 58 plain

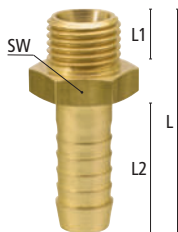
Max. Working Pressure	Thread	Media	
PN 12 bar	ISO 228	Compressed Air, Gas/ Others	10

Thread stems with parallel male thread and inner cone 37°

Thread connection	Hose connection	L	SW	L1	L2	Bore	Weight	Type No.
G 1/8 m	Hose i.D. 6	37	13	7	25	5	12	T 186 M
G 1/8 m	Hose i.D. 9	37	13	7	25	5	20	T 189 M
G 1/4 m	Hose i.D. 6	39	17	9	25	5	19	T 146 M
G 1/4 m	Hose i.D. 8	39	17	9	25	6	21	T 148 M
G 1/4 m	Hose i.D. 9	39	17	9	25	7	22	T 149 M
G 1/4 m	Hose i.D. 11	39	17	9	25	8	26	T 1411 M
G 1/4 m	Hose i.D. 13	39	17	9	25	8	34	T 1413 M
G 3/8 m	Hose i.D. 6	40	19	10	25	5	25	T 386 M
G 3/8 m	Hose i.D. 8	40	19	10	25	6	27	T 388 M
G 3/8 m	Hose i.D. 9	40	19	10	25	7	28	T 389 M
G 3/8 m	Hose i.D. 11	40	19	10	25	8	33	T 3811 M
G 3/8 m	Hose i.D. 13	40	19	10	25	9,5	36	T 3813 M
G 1/2 m	Hose i.D. 6	40	24	10	25	5	37	T 126 M
G 1/2 m	Hose i.D. 9	40	24	10	25	7	41	T 129 M
G 1/2 m	Hose i.D. 13	40	24	10	25	11	44	T 1213 M
G 3/4 m	Hose i.D. 19	56	27	16	32	13	125	T 3419 TM*
G 1 m	Hose i.D. 25	70	36	17	41	20	210	T 1025 TM*

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133), Thread sealing with PVC sealing ring type HPD (☺ page 212)

*without inner cone



Pneumatic 2/3-Screwings

Materials

- Screwings: Brass MS 58 plain

Max. Working Pressure	Thread	Media	
PN 12 bar	ISO 228	Compressed Air, Gas/ Others	10

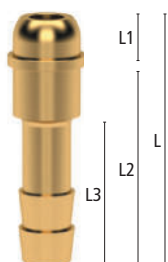
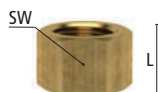
Hexagon nut

Thread connection	L	SW	Bore	Weight	Type No.
G 1/8 i	12	13	7,2	13	U 18 M
G 1/4 i	14	17	10,6	16	U 14 M
G 3/8 i	15	19	13	15	U 38 M
G 1/2 i	16	24	15,5	28	U 12 M

Hose Stems with outer cone for hexagon nut

Hose connection	Version for	L	L1	L2	L3	Bore	Weight	Type No.
Hose i.D. 6	U 18 M	40	4	34	28	4	7	ST 186 M
Hose i.D. 6	U 14 M	42	6	34	28	4	12	ST 146 M
Hose i.D. 9	U 14 M	42	6	34	28	5,5	14	ST 149 M
Hose i.D. 6	U 38 M	47	7	38	28	4	23	ST 386 M
Hose i.D. 9	U 38 M	47	7	38	28	6,5	23	ST 389 M
Hose i.D. 11	U 38 M	47	7	38	28	7	30	ST 3811 M
Hose i.D. 6	U 12 M	47	7	38	29	4	32	ST 126 M
Hose i.D. 9	U 12 M	47	7	38	29	6,5	33	ST 129 M
Hose i.D. 13	U 12 M	47	7	38	29	9	34	ST 1213 M

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Pneumatic Fittings

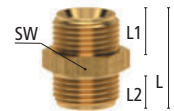
made of Brass Plain

Max. Working Pressure	Thread	Media	
PN 12 bar	ISO 228 / DIN EN 10226	Compressed Air, Gas/ Others	10

Pneumatic Double Nipples with double male thread and inner cone 37°

Thread connection	L	SW	L1	L2	Bore	Weight	Type No.
G 1/8 m - G 1/8 m	19	13	7	7	5	10	D 18 M
G 1/8 m - G 1/4 m	21	17	7	9	5	18	D 84 M
G 1/4 m - G 1/4 m	23	17	9	9	7.5	19	D 14 M
G 1/4 m - G 3/8 m	24	19	9	10	7.5	26	D 48 M
G 1/4 m - G 1/2 m	27	24	9	12.5	7.5	48	D 42 M
G 3/8 m - G 3/8 m	25	19	10	10	9	30	D 38 M
G 3/8 m - G 1/2 m	28	24	10	12.5	9	50	D 82 M
G 1/2 m - G 1/2 m	30	24	12.5	12.5	12	54	D 12 M

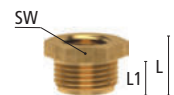
Thread sealing with PVC sealing ring type HPD (☺ page 212)



Pneumatic Reducing Nipples with female thread/ male thread

Thread connection	L	SW	L1	Weight	Type No.
G 1/8 f - G 1/4 m	13	17	9	10	R 84 N
G 1/4 f - G 3/8 m	14	19	10	10	R 48 N
G 1/4 f - G 1/2 m	15	24	11	29	R 42 N
G 3/8 f - G 1/2 m	15	24	11	19	R 82 N
G 1/2 f - G 3/4 m	21	32	14	55	R 24 NM
G 1/2 f - G 1 m	20	36	15	90	R 21 N

Thread sealing with PVC washers type HPD (☺ page 212)



Pneumatic Hose Menders

Hose connection	L	Bore	Weight	Type No.
Hose i.D. 6	52	4	15	SV 6 M
Hose i.D. 8	52	6	21	SV 8 M
Hose i.D. 9	52	7	25	SV 9 M
Hose i.D. 11	52	9	36	SV 11 M
Hose i.D. 13	52	10	30	SV 13 M
Hose i.D. 19	65	16	67	SV 19 M
Hose i.D. 25	80	21.5	102	SV 25 M

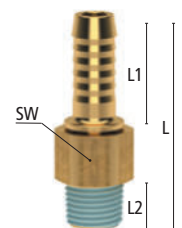
For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Swivelling thread stems with tapered male thread (Loctite-coated)

Thread connection	Hose connection	L	SW	L1	L2	Bore	Weight	Type No.
R 1/4 m	Hose i.D. 6	50	17	25	11	5	32	TD 146 M
R 1/4 m	Hose i.D. 9	50	17	25	11	6	38	TD 149 M
R 3/8 m	Hose i.D. 6	52	19	25	12	5	45	TD 386 M
R 3/8 m	Hose i.D. 9	52	19	25	12	7	49	TD 389 M
R 3/8 m	Hose i.D. 11	52	19	25	12	7	56	TD 3811 M

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Pneumatic Fittings

made of Brass Plain

Angle Screwings

Materials

- Angle screwings: Brass MS 58 plain

Max. Working Pressure	Temperature	Type of Valve	Media	
PN 15 bar	-20°C – +200°C	straight-through	Diverse	10

Angle Screwings for 45° or 90°

Thread connection	L	SW	L1	L2	Version	Weight	Type No.
G 1/4 m - G 1/4 f	29	20	8	10	45°	42	W 14 IA-45
G 1/4 m - G 1/4 f	29	20	8	13.5	90°	53	W 14 IA-90

To be combined with female thread couplings, male thread stems and male plugs G 1/4 f



Manifolds for Quick Connect Couplings

made of Brass MS 58

- Manifolds for quick connect couplings made of brass
- 3-way manifolds or 4-way manifolds with female thread
- For compressed air supply from central extraction points

Materials

- Distributor and quick connect coupling: Brass MS 58 plain

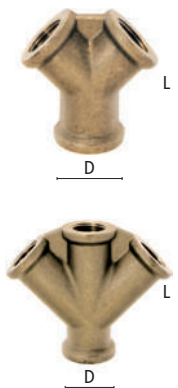
Max. Working Pressure	Temperature	Media	
PN 35 bar	-20°C – +100°C	Air/ Others	5

3-way manifolds with female thread

Thread connection	L	D	Bore	Weight	Type No.
3 x G 3/8 f	46	26	15	93	DWS 38
3 x G 1/2 f	50	27.5	19	100	DWS 12

4-way manifolds with female thread

Thread connection	L	D	Bore	Weight	Type No.
4 x G 3/8 f	61	26	15	191	VWS 38
4 x G 1/2 f	59.5	27.5	19	170	VWS 12



Manifold for Quick Connect Couplings

made of Plastic

- Manifold made of plastic with brass inserts
- 4-way manifold with female thread
- For compressed air supply from central extraction points
- For wall mounting 4 x Ø 5.5m - 70x44

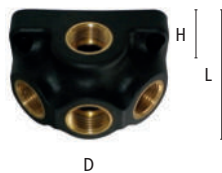
Materials

- Housing: Polyamide 6 with 30% fiberglass
- Inserts: Brass MS 58 plain

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Media	
PN 16 bar	-10°C – +50°C	15	ISO 228	4000l/min	Compressed air/ neutral, atoxic, non-flammable gases	1

4-way manifold with female thread

Thread connection	L	D	H	Weight	Type No.
4 x G 1/2 f	52	85	60	230	WV 12



Pneumatic Fittings

made of Brass Nickel-Plated

- For fluid technology, compressed air, automation, measure, control and regulation technology, etc.

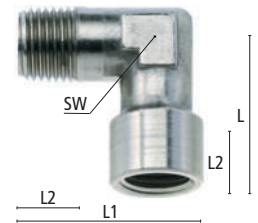
Materials

- Fittings: Brass MS 58 nickel-plated

Max. Working Pressure	Thread	Media	
PN 8 bar	ISO 228 / DIN EN 10226	Compressed air / Others	10

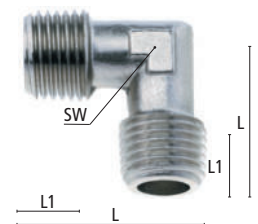
Elbow Connectors with tapered male thread and parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m - G 1/8 f	21	11	18.8	8	21	VL 202-18
R 1/4 m - G 1/4 f	25.5	13	24.5	11	38	VL 202-14
R 3/8 m - G 3/8 f	28	17	25.3	12	61	VL 202-38
R 1/2 m - G 1/2 f	14	21	30	14	103	VL 202-12



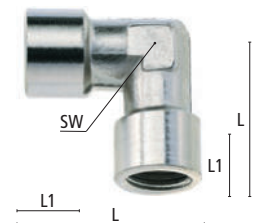
Elbow Connectors with both sides tapered male thread

Thread connection	L	SW	L1	Weight	Type No.
2 x R 1/8 m	17.8	10	8	10	VL 200-18
2 x R 1/4 m	21	11	11	21	VL 200-14
2 x R 3/8 m	25.3	13	12	38	VL 200-38
2 x R 1/2 m	28.5	17	14	61	VL 200-12



Elbow Connectors with both sides parallel female thread

Thread connection	L	SW	L1	Weight	Type No.
2 x G 1/8 f	21	11	8	23	VL 201-18
2 x G 1/4 f	25.5	13	11	42	VL 201-14
2 x G 3/8 f	28	17	12	72	VL 201-38
2 x G 1/2 f	33	21	14	116	VL 201-12



Y-Connectors with tapered male thread and 2 x parallel female thread

Thread connection	L	SW	Weight	Type No.
R 1/8 m - 2 x G 1/8 f	8	14	22	VM 204-18
R 1/4 m - 2 x G 1/4 f	11	17	43	VM 204-14
R 3/8 m - 2 x G 3/8 f	12	22	55	VM 204-38
R 1/2 m - 2 x G 1/2 f	14	26	108	VM 204-12



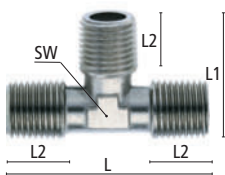
Y-Connectors with 3 x parallel female thread

Thread connection	L	SW	Weight	Type No.
3 x G 1/8 f	8	14	32	VF 204-18
3 x G 1/4 f	11	17	36	VF 204-14
3 x G 3/8 f	12	22	42	VF 204-38
3 x G 1/2 f	14	26	101	VF 204-12



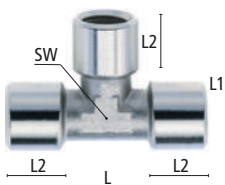
Pneumatic Fittings

made of Brass Nickel-Plated



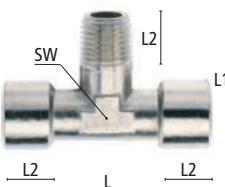
T-Adapters with 3 x tapered male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
3 x R 1/8 m	35.5	10	17.8	8	20	VTT 208-18
3 x R 1/4 m	42	11	21	11	30	VTT 208-14
3 x R 3/8 m	50.5	13	25.3	12	56	VTT 208-38
3 x R 1/2 m	57	17	28.5	14	128	VTT 208-12



T-Adapters with 3 x parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
3 x G 1/8 f	42	11	21	8	31	VTT 200-18
3 x G 1/4 f	51	13	25.5	11	62	VTT 200-14
3 x G 3/8 f	56	17	28	12	97	VTT 200-38
3 x G 1/2 f	66	21	33	14	161	VTT 200-12



T-Adapters with tapered male thread and 2 x parallel female thread

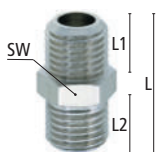
Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m - 2 x G 1/8 f	42	11	21	8	26	VTC 206-18
R 1/4 m - 2 x G 1/4 f	51	13	25.5	11	56	VTC 206-14
R 3/8 m - 2 x G 3/8 f	56	17	28	12	91	VTC 206-38
R 1/2 m - 2 x G 1/2 f	66	21	33	14	150	VTC 206-12



Double Adapters with both sides parallel male thread

Thread connection	L	SW	L1	Weight	Type No.
2 x G 1/8 m	16.7	14	6	10	VNC 260-18
2 x G 1/4 m	21.2	17	8	15	VNC 260-14
2 x G 3/8 m	23.2	19	9	25	VNC 260-38
2 x G 1/2 m	25.5	24	10	45	VNC 260-12
2 x G 3/4 m	27.5	33	11	68	VNC 260-34

Thread sealing with PVC sealing ring type HPD (© page 212)



Reducing Double Adapters with both sides parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m - G 1/4 m	19	17	6	8	14	VNR 261-184
G 1/8 m - G 3/8 m	20	19	6	9	20	VNR 261-188
G 1/8 m - G 1/2 m	21.5	24	6	10	34	VNR 261-182
G 1/4 m - G 3/8 m	22	19	8	9	22	VNR 261-148
G 1/4 m - G 1/2 m	23.5	24	8	10	39	VNR 261-142
G 3/8 m - G 1/2 m	24.5	24	9	10	43	VNR 261-382
G 1/2 m - G 3/4 m	26.5	30	10	11	69	VNR 261-124

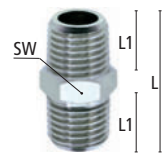
Thread sealing with PVC sealing ring type HPD (© page 212)

Pneumatic Fittings

made of Brass Nickel-Plated

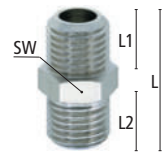
Double Adapters with both sides tapered male thread

Thread connection	L	SW	L1	Weight	Type No.
2 x R 1/8 m	19	12	7.5	9	VNC 250-18
2 x R 1/4 m	26	14	10.5	15	VNC 250-14
2 x R 3/8 m	27	17	11.5	26	VNC 250-38
2 x R 1/2 m	33.5	22	14	50	VNC 250-12
2 x R 3/4 m	39.5	27	14	72	VNC 250-34



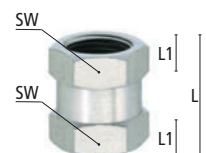
Reducing Double Adapters with both sides tapered male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
R 1/8 m - R 1/4 m	23	14	7.5	10.5	13.5	VNR 251-184
R 1/8 m - R 3/8 m	24	17	7.5	11.5	19.5	VNR 251-188
R 1/4 m - R 3/8 m	27.5	17	10.5	11.5	22	VNR 251-148
R 1/4 m - R 1/2 m	30.5	22	11.5	14	39	VNR 251-142
R 3/8 m - R 1/2 m	31	22	11.5	14	43	VNR 251-382
R 1/2 m - R 3/4 m	37.5	27	14	14	69	VNR 251-124



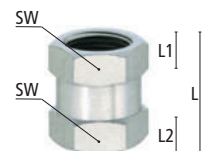
Double Adapters with both sides parallel female thread

Thread connection	L	SW	L1	Weight	Type No.
2 x G 1/8 f	15	14	8	12	VM 254-188
2 x G 1/4 f	22	17	11	21	VM 254-144
2 x G 3/8 f	24	22	12	39	VM 254-388
2 x G 1/2 f	30	27	15	50	VM 254-122



Reducing Double Adapters with both sides parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f - G 1/4 f	19.6	17	8	11	25	VM 255-184
G 1/4 f - G 3/8 f	23	22	11	12	47	VM 255-148
G 1/2 f - G 3/4 f	30	32	15	17	107	VM 255-124



Reducing Adapters with parallel male and female thread

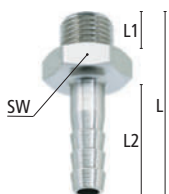
Thread connection	L	SW	L1	Weight	Type No.
G 1/8 f - G 1/4 m	13	17	8	11	VRC 100-148
G 1/4 f - G 3/8 m	14	19	9	12	VRC 100-384
G 3/8 f - G 1/2 m	15.5	24	10	24	VRC 100-128
G 1/2 f - G 3/4 m	17.5	30	12	41	VRC 100-342



Thread sealing with PVC sealing ring type HPD (© page 212)

Pneumatic Fittings

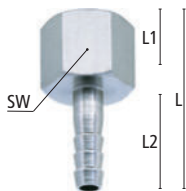
made of Brass Nickel-Plated



Thread stem adapters with parallel male thread

Thread connection	Hose connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	Hose i.D. 6	32	13	7	20	10	VPG 260-186
G 1/8 m	Hose i.D. 9	32	13	7	20	13	VPG 260-189
G 1/4 m	Hose i.D. 6	34	17	9	20	16	VPG 260-146
G 1/4 m	Hose i.D. 9	34	17	9	20	19	VPG 260-149
G 3/8 m	Hose i.D. 9	35	19	10	20	24	VPG 260-389
G 3/8 m	Hose i.D. 14	39	19	10	24	29	VPG 260-3814
G 1/2 m	Hose i.D. 14	40	24	10	24	39	VPG 260-1214
G 3/4 m	Hose i.D. 20	47	30	12	28	87	VPG 260-3420

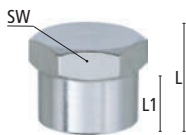
For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133), Thread sealing with PVC sealing ring type HPD (☺ page 212)



Thread stem adapters with parallel female thread

Thread connection	Hose connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	Hose i.D. 6	31	13	9	20	13	VPG 250-186
G 1/4 f	Hose i.D. 6	34	17	11	20	20	VPG 250-146
G 1/4 f	Hose i.D. 9	34	17	11	20	23	VPG 250-149
G 3/8 f	Hose i.D. 9	35	22	12	20	27	VPG 250-389
G 1/2 f	Hose i.D. 13	41.5	24	14	24	45	VPG 250-1213

For hose clips type ZOS (☺ page 130), type HS (☺ page 131) or crimping ferrules type LPH (☺ page 133)



Hexagon Locking nut with parallel female thread

Thread connection	L	SW	L1	Weight	Type No.
G 1/8 f	12	14	9	11	VE 265-18
G 1/4 f	14	17	10	17	VE 265-14
G 3/8 f	15.5	22	11	27	VE 265-38
G 1/2 f	17	24	12	28	VE 265-12
G 3/4 f	17.5	30	13	47	VE 265-34



Hexagon Locking nut with parallel male thread

Thread connection	L	SW	L1	Weight	Type No.
G 1/8 m	10.5	14	6	8	VE 261-18
G 1/4 m	13	17	8	14	VE 261-14
G 3/8 m	14	19	9	18	VE 261-38
G 1/2 m	15.5	24	10	27	VE 261-12
G 3/4 m	17.5	30	12	53	VE 261-34

Thread sealing ring with PVC washers type HPD (☺ page 212)

Hexagon Ball Valves

- Miniature ball valves made of brass nickel-plated
- For pneumatic or water installations in industry, construction or civil applications

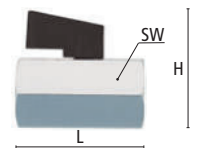
Materials

- Body: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chrome-plated
- Ball sealing: PTFE
- Handle: Plastic

Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	-10°C – +90°C	ISO 228	Air / Water	10

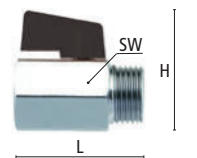
Hexagon Ball Valves with 2 x female thread

Thread connection	L	SW	H	Bore	Weight	Type No.
2 x G 1/4 f	36	19	38	5.5	71	KM 14 TS
2 x G 3/8 f	41	21	38	8	86	KM 38 TS
2 x G 1/2 f	48	25	42	10	137	KM 12 TS



Hexagon Ball Valves with female/male thread

Thread connection	L	SW	H	Bore	Weight	Type No.
G 1/4 a - G 1/4 f	36	19	38	5.5	61	KMZ 14 TS
G 3/8 a - G 3/8 f	41	21	38	8	83	KMZ 38 TS
G 1/2 a - G 1/2 f	48	25	42	10	130	KMZ 12 TS



Double-Ear Hose Clips

- Clips made of special reliable steel zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect, safe and unsolvable
- No risk of injury
- [To assemble hoses and fittings for various media](#)

Materials

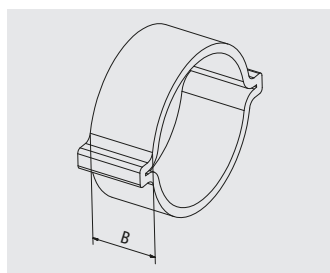
- Clips: Unbreakable special reliable steel, zinc-plated and blue chromated (free of chrome VI)

100

Double-Ear Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5,5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7,5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43

Special assembly pincer	L	H	Weight	Type No.
	220	50	332	ZOSZ



High-Performance Hose Clips

made of Steel W1 (DIN 3017)

- High-performance hose clips made of steel W1, free of chrome VI, zinc-plated and thick layer passivated
- Optimum sealing through high belt tension – maximum strip safety
- Hose-protective through rounded edges and smooth band insides
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of tension over complete hose diameter
- Up to size 90 in boxes, sizes 100-180 in plastic bags, from size 190 individually
- For safe, fast and removable assembly of various hoses and fittings for different media

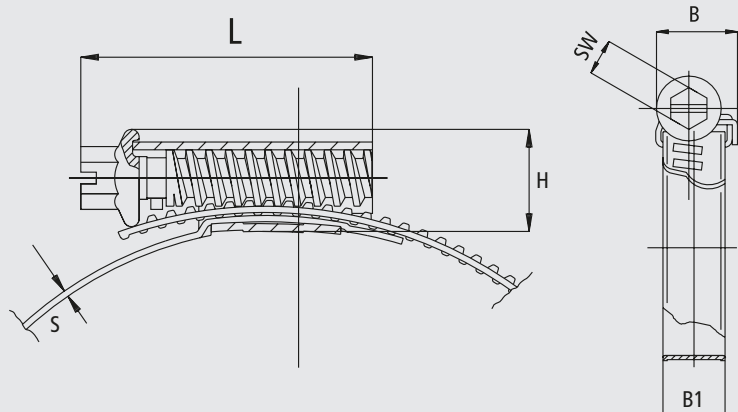
Materials

- Band, body, screw: Steel W1 zinc-plated and thick layer passivated

Norm
DIN 3017

High-Performance Hose Clips, band and lock made of steel W 1 zinc-plated

Range				torque		band-width		band-thickness		Weight	Type No.
				Max.Nm	L	H	B1	S			
mm	inch	B	SW								
8-12	5/18-1/2	14	7	2-2.5	20.5	11.5	9	0.7	100	12	HS 12
10-16	5/18-5/8	14	7	2-2.5	20.5	11.5	9	0.8	100	13	HS 16
12-22	1/2-3/4	14	7	3-3.5	24	11.5	9	0.8	100	16	HS 20
16-27	5/8-1	16	7	5-5.5	31	13	9	0.8	100	17	HS 25
20-32	3/4-1 1/4	16	7	5-5.5	31	13	12	0.8	50	27	HS 32
25-40	1-1 5/8	16	7	5-5.5	31	13	12	1.0	50	32	HS 40
30-45	1 3/8-1 3/4	16	7	5-5.5	31	13	12	1.0	50	33	HS 45
35-50	1 1/4-2	16	7	5-5.5	31	13	12	1.0	50	35	HS 50
40-60	1 5/8-2 3/8	16	7	5-5.5	31	13	12	1.0	25	39	HS 60
50-70	2-2 3/4	16	7	5-5.5	31	13	12	1.0	25	43	HS 70
60-80	2 3/8-3 1/8	16	7	5-5.5	31	13	12	1.0	25	45	HS 80
70-90	2 3/4-3 1/2	16	7	5-5.5	37	13	12	1.0	25	52	HS 90
80-100	3 1/8-4	16	7	5-5.5	37	13	12	1.0	10	53	HS 100
90-110	3 1/2-4 3/8	16	7	5-5.5	37	13	12	1.0	10	53	HS 110
100-120	4-4 3/4	16	7	5-5.5	37	13	12	1.0	10	58	HS 120
110-130	4 3/8-5 1/8	16	7	5-5.5	37	13	12	1.0	10	60	HS 130
120-140	4 3/4-5 1/2	16	7	5-5.5	37	13	12	1.0	10	63	HS 140
130-150	5 1/8-5 7/8	16	7	5-5.5	37	13	12	1.0	5	69	HS 150
140-160	5 1/2-6 1/4	16	7	5-5.5	37	13	12	1.0	5	71	HS 160
150-170	5 7/8-6 5/8	16	7	5-5.5	37	13	12	1.0	5	74	HS 170
160-180	6 1/4-7	16	7	5-5.5	37	13	12	1.0	5	77	HS 180
170-190	6 1/2-7 1/2	16	7	5-5.5	37	13	12	1.0	1	79	HS 190
180-200	7 1/8-8	16	7	5-5.5	37	13	12	1.0	1	81	HS 200
190-210	7 1/2-8 1/4	16	7	5-5.5	37	13	12	1.0	1	86	HS 210
200-220	8-8 3/4	16	7	5-5.5	37	13	12	1.0	1	92	HS 220
210-230	8 1/8-9	16	7	5-5.5	37	13	12	1.0	1	98	HS 230
220-240	8 3/4-9 3/8	16	7	5-5.5	37	13	12	1.0	1	101	HS 240
230-250	9-9 3/4	16	7	5-5.5	37	13	12	1.0	1	105	HS 250
240-260	9 3/8-10 1/4	16	7	5-5.5	37	13	12	1.0	1	108	HS 260
250-270	9 3/4-10 1/2	16	7	5-5.5	37	13	12	1.0	1	112	HS 270
260-280	10 1/4-11	16	7	5-5.5	37	13	12	1.0	1	116	HS 280



High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High-performance hose clips made of stainless steel W5
- Optimum sealing through high belt tension – maximum strip safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable assembly of various hoses and fittings for different media

Materials

- Band, body, screw: Stainless Steel W5

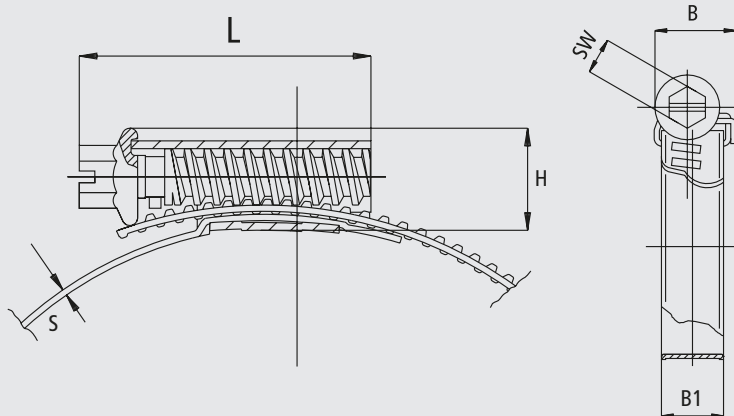
Norm

DIN 3017



High-Performance Hose Clips, band and lock made of stainless steel W 5

Range		torque		band-width		band-thickness					
mm	inch	B	SW	Max. Nm.	L	H	B1	S		Weight	Type No.
8-12	5/18-1/2	10.5	6	1.5	17	9.5	8	0.7	100	6	HSE 12
8-16	5/18-5/8	14	7	2-2.5	21	14	9	0.8	100	11	HSE 16
12-20	1/2-3/4	14	7	2-2.5	24	14	9	0.8	100	13	HSE 20
16-25	5/8-1	14	7	3-3.5	24	14	9	0.8	100	14	HSE 25
20-32	3/4-1 1/4	14	7	3-3.5	24	14	9	0.8	100	15	HSE 32
25-40	1-1 5/8	14	7	3-3.5	26	14	9	0.8	50	18	HSE 40
32-50	1 1/4-2	14	7	3-3.5	26	14	9	0.8	50	18	HSE 50
40-60	1 5/8-2 3/8	14	7	3-3.5	26	14	9	1.0	25	20	HSE 60
50-70	2-2 3/4	14	7	3-3.5	26	14	9	1.0	25	21	HSE 70
60-80	2 3/8-3 1/8	14	7	3-3.5	26	14	9	1.0	25	23	HSE 80
70-90	2 3/4-3 1/2	14	7	3-3.5	26	14	9	1.0	25	25	HSE 90
80-100	3 1/8-4	14	7	3-3.5	26	14	9	1.0	10	28	HSE 100



Ferrules for Low Pressure Hose Lines

- Ferrules made of annealed steel zinc-plated and yellow passivated
- Easy, fast and absolutely safe hose crimping with **LUDECKE** hand-operated assembly machine SPR-333 up to type LPH-23
- No risk of injury, clean and unsolvable connection
- For crimping of various hoses and fittings for different media

Materials

- Body: annealed steel zinc-plated and yellow passivated

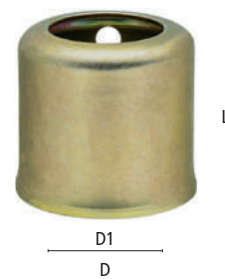
Max. Working Pressure

PN 16 bar

Ferrules for Low Pressure Hose Lines

for hose									
D	DIN 20018	water	PVC	L	D1	Assembly-M.	Weight		Type No.
12.5				17	8.5	SPR 333	3	100	LPH-12.5
13.5			6x3	20	9.3	SPR 333	5	100	LPH-13.5
14.5	6x3.5			17	10	SPR 333	5	100	LPH-14.5
16			8x3	17	11.5	SPR 333	5	100	LPH-16
18	9x3.5		10x3	20	13.5	SPR 333	7	100	LPH-18
19			12x3	20	13.9	SPR 333	9	100	LPH-19
19.5				26	14.5	SPR 333	10	100	LPH-19.5
21				32	16.5	SPR 333	12	100	LPH-21
22				32	17	SPR 333	16	100	LPH-22
23		13x3		32	17	SPR 333	18	100	LPH-23
25	13x5			32	17		19	100	LPH-25
28	15x6			32	20.5		22	100	LPH-28
30.5		19x4		33	24.3		24	100	LPH-30
33	19x6			35	24.8		40	25	LPH-33
38		25x4.5		35	28		47	25	LPH-38
41	25x7			40	30		64	25	LPH-41

For higher working pressure we recommend hydraulic crimping with turned steel-ferrules type PH (☹ page 245) or on request.



Hand-Operated Assembly Machine

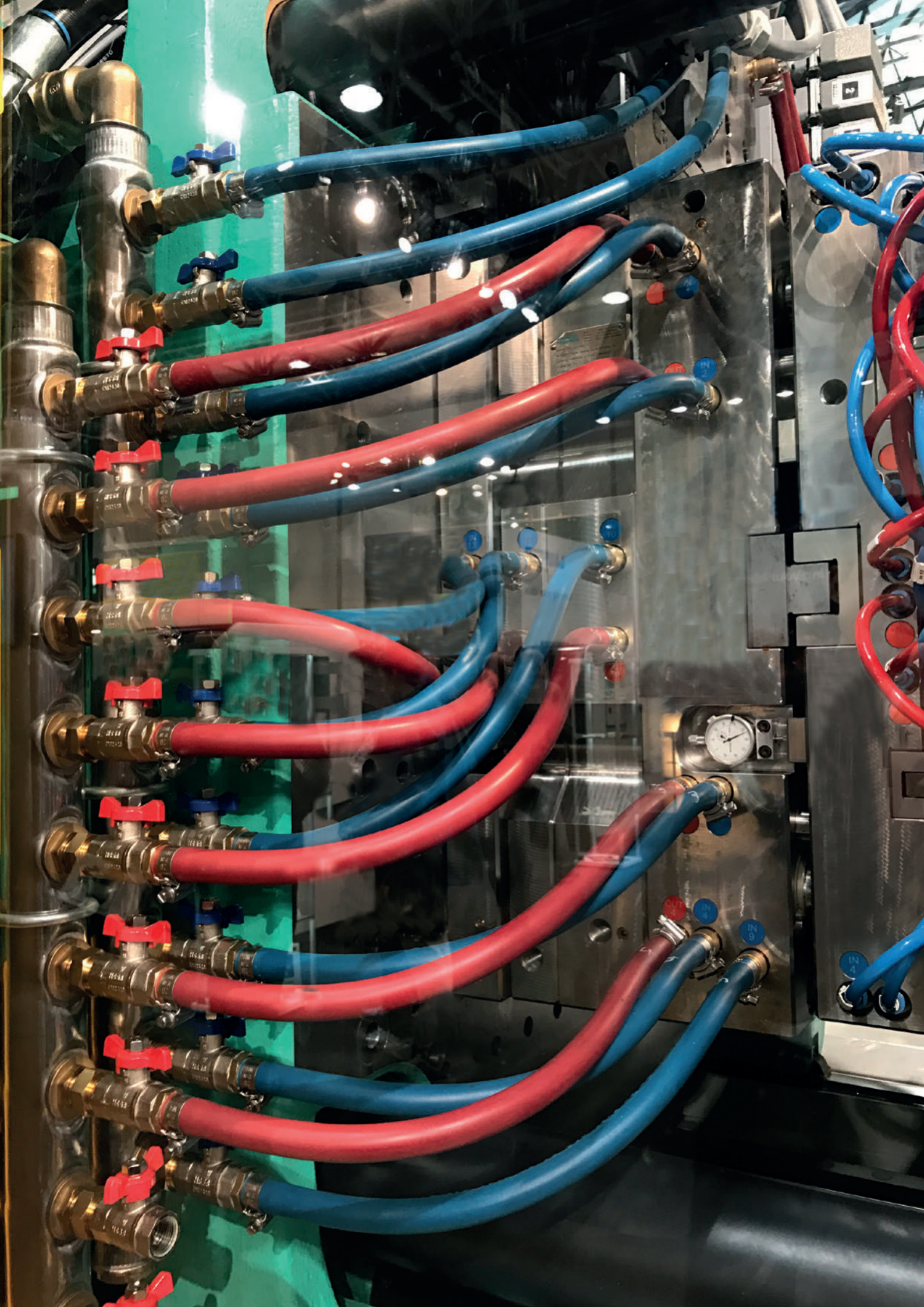
for Low Pressure Ferrules

- Crimping machine for easy and safe assembly of low-pressure hoses from 3 to 16 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Simple:** Fast assembling quick and easy
- **Reliable:** Improved safety through perfect fit
- **Safe:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 9 mm and from 10 to 16 mm
- **Flexible:** For mobile use

Assembly Machine

for hose						
Hose o.D./						
Hose i.D.	Range	suitable ferrule	e.g. for fitting		Weight	Type No.
3-16	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2 kg	SPR-333





Temperature Regulation



Quick Connect Couplings
European Plug Profiles



Quick Connect Couplings
International Plug Profiles



SoftFlow Material Conveying
Quick Connect Couplings



Manifolds and Colour Coding



Screwings and Components



Hose Clamps,
Hose Clips and Ferrules



**Temp[®]
Tec**
by LUDECKE

**Temp[®]
Secure**
by LUDECKE

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High-Performance Hose Clips made of Steel	194	
High-Performance Hose Clips made of Stainless Steel	195	
Double-Ear Hose Clips	196	
Ferrules for Low Pressure Hose Lines	197	
Hand-Operated Assembly Machine	197	

Safety without Compromise for Temperature Regulation Applications



Plastic processing companies rely on particularly robust and sturdy couplings and fittings. The reason: They are used to cool and heat moulding units during injection moulding or pressure casting and have to withstand extreme temperatures.

The sophisticated TempTec by **LUDECKE**® quick connect couplings guarantee first-class quality, full reliability and are easy and fast to operate.

In particular, we would like to point out our TempSecure by **LUDECKE**® series which offers simple and effective protection against unintentional disconnection under pressure.

Advantages:

- High-class material
- Robust, safe and reliable
- Completely leakage-proof and durable
- Easy to couple
- Various sizes, connection and valve types
- Particularly safe and flexible solutions for temperature regulation applications

**Temp
Tec**
by **LUDECKE**

Broad Range

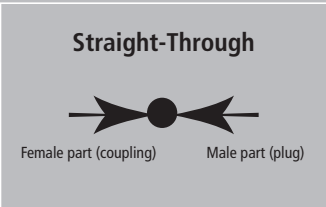
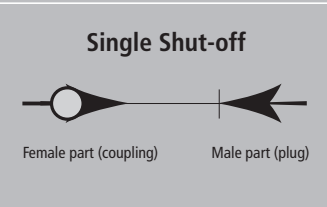
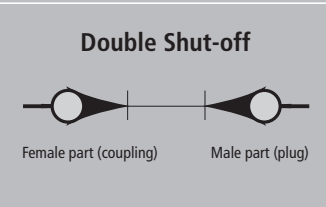
The **LUDECKE** product range contains a large selection of European and International plug profiles. They cover the world's most common plug profiles and ensure high compatibility.



If there is no coupling system in our product range which meets your requirements, we will be pleased to develop an individual solution with you.

Valve Designs

The **LUDECKE** quick connect couplings for temperature regulation applications are available in different valve designs.

Straight-Through	Single Shut-off	Double Shut-off
 <ul style="list-style-type: none"> • No valve - neither within the coupling nor within the plug • Maximum flow rate • During disconnection: media will leak from the coupling and plug line 	 <ul style="list-style-type: none"> • Straight-through plug • Coupling with valve • During disconnection: media might leak from the plug line 	 <ul style="list-style-type: none"> • Valves on both sides (male/female) • During disconnection: media will stay in the hose of both connection lines, constant pressure is maintained

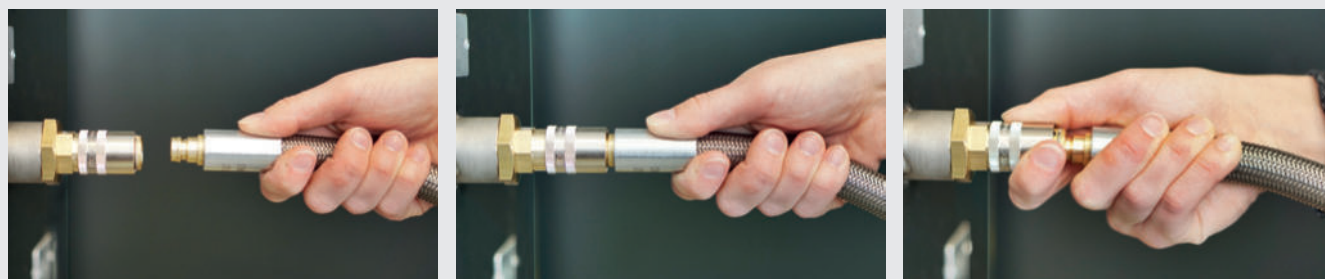
Materials

LUDECKE only works with premium materials which are customised to the application.

<p>Brass (plain/ nickel-plated)</p> <p>Most of the LUDECKE quick connect couplings consist of brass MS 58 (machining brass). It is a very sturdy material which guarantees high durability and is perfectly suited for galvanization (nickel, chrome).</p>	<p>Stainless Steel</p> <p>For clean-room applications or when aggressive media are used to cool down or heat up moulding units, we recommend quick connect couplings made of stainless steel (1.4305). For further information, please refer to our program for the processing industry.</p>
<p>High Resistant Special Brass</p> <p>This innovative material combines the processing features of brass and the solidity of stainless steel. High resistant special brass contains no toxic additives nor lead and maintains its natural shine. This material is mainly used in the TempSecure by LUDECKE® Series.</p>	<p>Seals</p> <p>For temperature regulation applications LUDECKE offers high-performance seals made of FKM. They are characterized by great heat resistance, perfect gliding properties, minimum wear as well as high elasticity and high abrasion resistance which guarantee significantly longer life times of couplings. Depending on the requirement, special high-performance seals made of FKM, EPDM and FFKM are used.</p>

Connecting within Seconds

The **LUDECKE** temperature regulation quick connect couplings are extremely easy to handle.

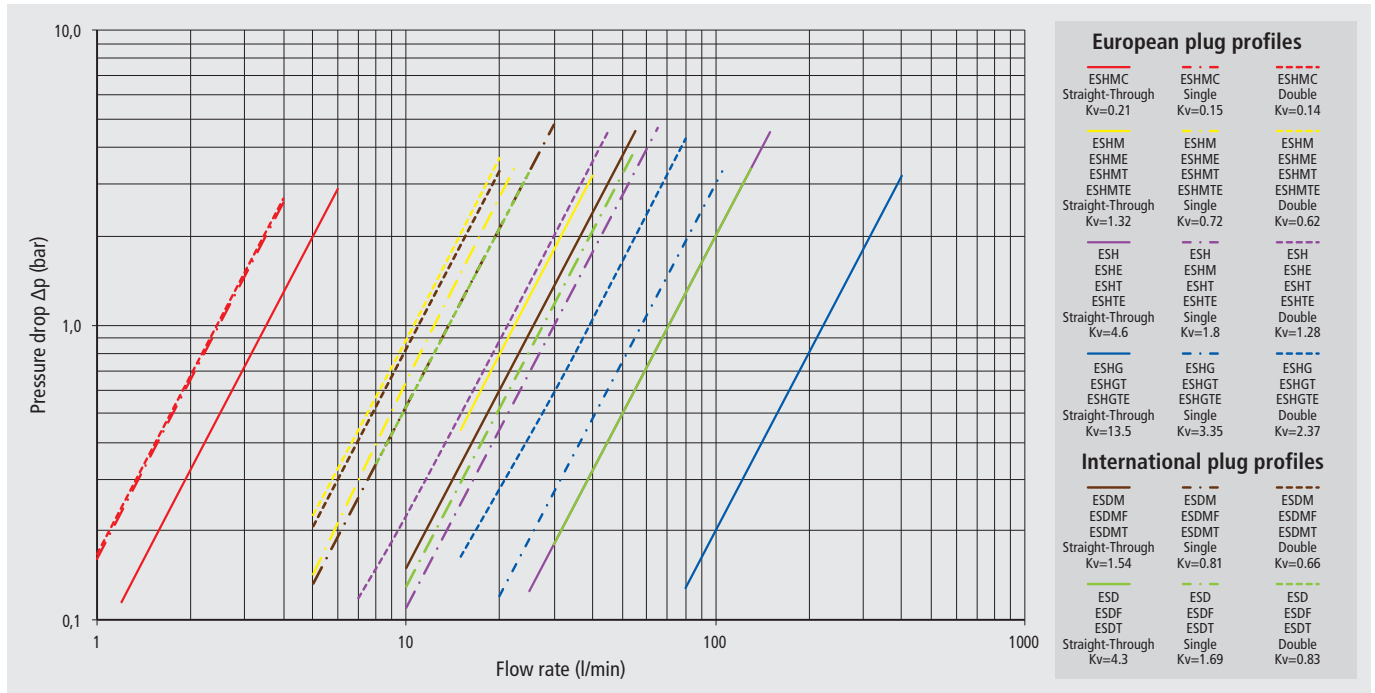


One-hand operation: To connect, simply push the plug into the coupling.

To disconnect, pull back the sleeve from the coupling (comes with automatic locking mechanism in shut-off couplings).

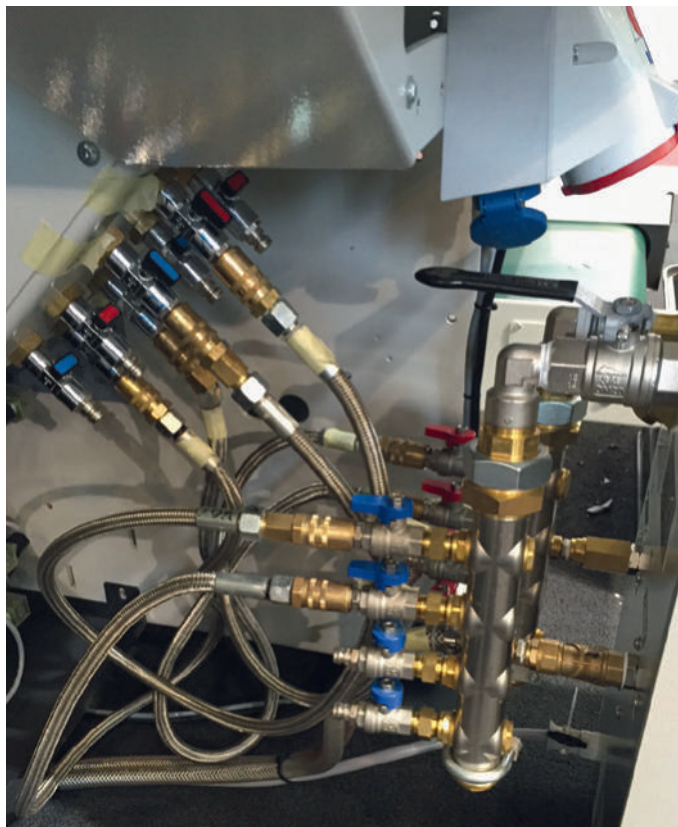
Flow Chart

The flow rates of the different coupling systems are summarized in the following chart.



Recommendations when Selecting a Coupling System

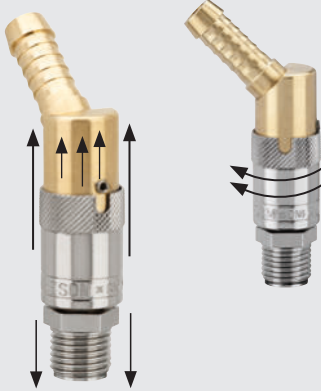
As temperature applications pose a specific safety risk, please adhere to the following:



- For permanent operation with more than 160°C, an exact specification of the coupling should be determined (☺ Seals, page 145)
- The **LUDECKE** temperature regulation quick connect couplings can be differentiated based on some characteristics:
 - Difference between fine metric threads acc. to DIN 13 and threads acc. to ISO 228 is, that all ISO 228 threads have a turned collar
 - The brass plugs with inch threads are made of nickel-plated brass, brass plugs with metric threads are made of plain brass
 - The sleeves of straight-through couplings are made of nickel-plated brass
 - Colour coding system for distinction between flow and return (☺ page 189)
- Couplings with extended sleeves can be easily connected and disconnected with countersunk plugs in the mould
- All shut-off couplings are suitable for connection with shut-off plugs
- All couplings can be used via one-hand operation - The Series ESDMF and ESDF couplers have a flat sealing ring on the front end and can be used via two-hand operation

Flexible Components

The **LUDECKE** temperature regulation product range can be extended with various features and thus be ideally adapted to the respective requirement.



Security Lock

In addition to the TempSecure by **LUDECKE**® series, we offer a simplified security lock.

- Disconnection only possible when safety pin engaged correctly into sleeve notch
- Prevention of fluid or pressure loss in the circulation during operation
- Prevention of human injury and harm to the environment, machine and tool
- Available for the series ESHM, ESHME, ESH, ESHE as well as ESDM and ESD

Just add "S" on Type No. (e.g. ESHM 9 TLS)
Surcharge: 2.19 Euro gross/piece



360° Rotatable Connector

The hose barb and male thread couplings of the series ESHM and ESH are also available with a rotatable connector, consisting of a high-quality ball-and-socket joint with double O-ring sealing*.

- Swivel joint absorbs the pulling and rotary motion when opening and closing the tool in the machine and prevents the fast wearing and abrasion of the O-ring inside the coupling through the permanent turning of the plug
- Prevention of leaks in the temperature regulation circuit
- Reduces the danger of bending hoses on their way to the tool

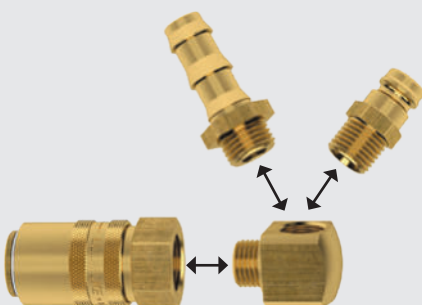
Just add "DR" on Type No. (e.g. ESHM 9 TLABDR), minimum order 20 pieces/type
Surcharge: 5.01 Euro gross/piece



Anchoring Concept

On Request, we offer all couplings with quick-fit hose stem contour to use with quick-fit hoses.

- Safest clamping features (an additional clamp is not necessary). Provides a secure hold in combination with an absolute leakage-free sealing between fitting and hose
- No tools or hose clamps/ clips are necessary to assemble the hose!
- Coloured rings assure an easy and clear marking of unicoloured quick-fit hoses to distinguish the difference between heating or cooling circulations
- Suitable quick-fit hoses are available from various manufacturers and distributors
- Special versions or other sizes/ types on request
- Note the maximum permanent temperature of 100°C!



Modular System

For comprehensive flexibility, 45° and 90° elbow connectors are available which can be connected to threaded couplings and hose stems.

TempSecure by **LUDECKE**®

Temperature Regulation Quick Connect Coupling System with Automatic Safety Locking Mechanism



The patented TempSecure by **LUDECKE**® temperature regulation quick connect coupling system features an automatic safety locking mechanism which prevents unintentional disconnection and unlocking.

As a result, this coupling is especially suited when using aggressive media as well as for temperature regulation applications with hot or cold water and tempered oil between - 20°C and + 200°C*. Superior FKM O-rings make the coupling an ideal media carrier especially in high-temperature applications.

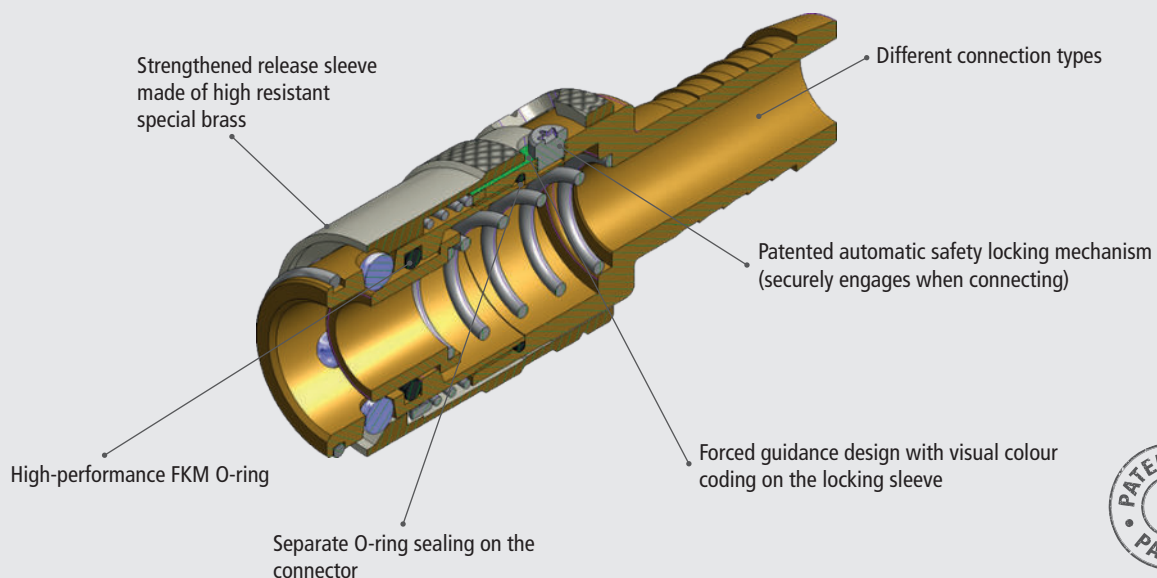
*subject to used media

Advantages:

- Maximum safety against unintended disconnection and unlocking
- Simple and intuitive coupling process
- High-temperature seals for best performance
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications
- Available for almost all **LUDECKE** temperature regulation series in various sizes, materials, connection and valve types

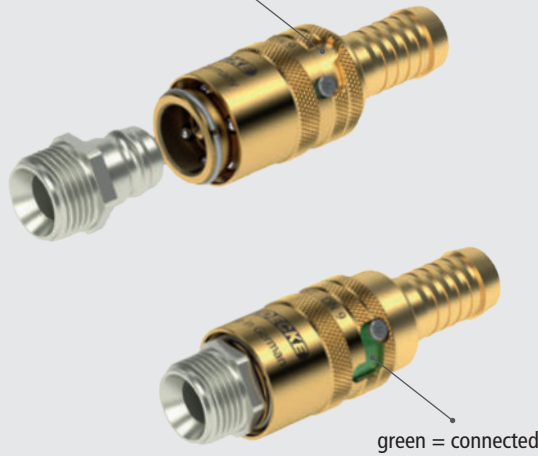
TempSecure®
by **LUDECKE**

High-Quality Materials Guarantee Best Reliability



Easy - Reliable - Quick

Visual colour coding on the locking sleeve
brass plain = disconnected



The TempSecure by **LUDECKE**® temperature regulation quick connect coupling system is characterized by its simple and intuitive connecting process. Even under difficult circumstances and obstructed view, this enables safe operation.

The connection is made via automatic locking. An additional colour coding on the locking sleeve clearly indicates correct and secure connection.

The disconnecting process can be performed blindly due to the forced guidance of the locking sleeve. However, this requires a deliberate manual unlocking effort. An accidental or unintentional disconnection is almost impossible.

Functional Principle:

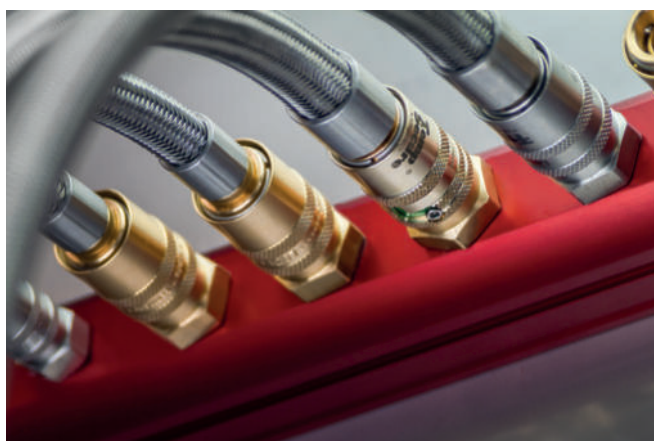


Coupling with one-hand operation - To connect the system, simply push the plug into the safety coupling. The release sleeve automatically slides forward in a twisting motion and engages into the final safety lock position. The coupling is now firmly connected to the plug and secured against unintentional opening.



To release the plug from the safety coupling, the sleeve has to be pulled back manually and with force. The plug can only be removed from the safety coupling by deliberately pulling/ twisting.

The TempSecure coupling is especially suited for applications which require high levels of safety due to the media used and their high temperature.



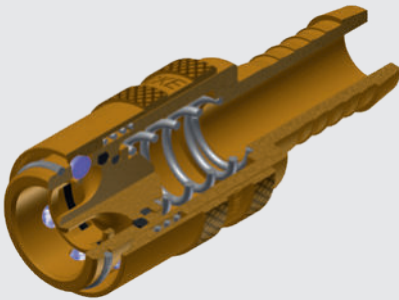
The reliable partner for temperature regulation applications

Accidentally decoupled and unlocked?
Not with the TempSecure by **LUDECKE**® product range:
Effective protection against injuries and production downtimes.



Seals for Temperature Regulation Quick Connect Couplings

FKM:



LUDECKE offers high-resistant seals made of FKM for temperature regulation applications.

Advantages:

- Heat resistant up to 200°C (oil: 200°C, water: 150°C, air: 200°C)
- Highly resistant against all common tempered media
- Significantly better gliding properties and minimum wear (low adhesive tendency)
- High elasticity (no crack formation) according to DIN 53504
- High abrasion resistance of the O-ring
- Significantly increased life times of couplings

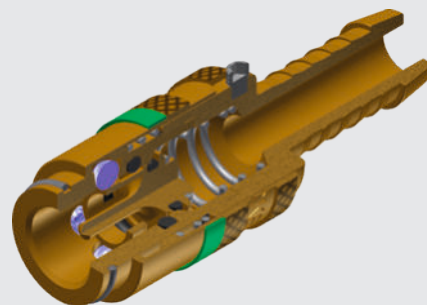
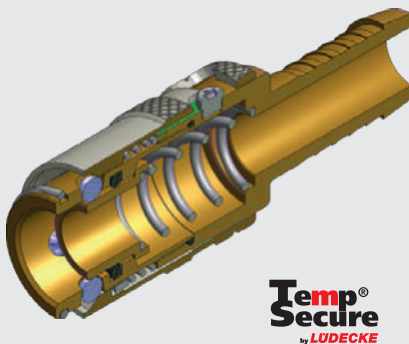
High-Performance FKM

The temperature regulation couplings of the TempSecure by **LUDECKE**® series contain a high-performance FKM sealing ring which has been developed for the special requirements of high-temperature applications.

- Extreme heat resistance up to 220°C continuous temperature (oil: 220°C, water: 180°C, air: 220°C)
- High resistance against synthetic oils used as tempered media
- Very good chemical resistance and high resistance against aliphatic hydrocarbons (fuels)
- Steam/ hot water optimised

On request, the high-performance FKM sealing ring is also available for other temperature regulation couplings (For easy identification, the coupling sleeve is marked with a green anodized aluminium ring).

Surcharge: 3.75 Euro gross/ piece - When ordering, simply add "HV" to the standard article number (e.g. ESHM 9 TLABHV).



Other special seals (e.g. EPDM, FFKM) on request.

Overview of Quick Connect Couplings with



Series

ESHMC
DN 2.7

ESHM
DN 6

ESHMT
DN 6

Plug Profile
(original size)



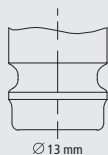
Materials:

Body:	MS 58 plain	MS 58 plain	MS 58 plain
Sleeve*:	MS 58 (plain/ nickel-plated)	MS 58 (plain/ nickel-plated)	Special Brass (plain/ nickel-plated)
Valve Body:	MS 58 plain	MS 58 plain	MS 58 plain
Valve:	MS 58 plain	MS 58 plain	MS 58 plain
Springs, Retaining Ring:	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310
Balls:	Stainless Steel 1.3541	Stainless Steel 1.4034	Stainless Steel 1.4034
Seals:	FKM	FKM	High-Performance FKM
Special seals for other media on request:	EPDM, FFKM	EPDM, FFKM	EPDM, FFKM
Plug:	MS 58 plain	MS 58 (plain/ nickel-plated)	MS 58 (plain/ nickel-plated)
Max. Working Pressure:	PN 15 bar	PN 15 bar	PN 15 bar
Temperature:	-20°C– +200°C**	-20°C– +200°C**	-20°C– +220°C***
Thread Types:	DIN 13/ DIN 158	ISO 228/ DIN 13/ DIN 158	ISO 228/ DIN 13
Flow Rate:	see chart p. 140	see chart p. 140	see chart p. 140
Connection:	straight/ 45°/ 90°	straight/ 45°/ 90°	straight/ 45°/ 90°
Type of Valve:	single/ double/ straight-through	single/ double/ straight-through	single/ double/ straight-through
Operation:	One-Hand	One-Hand	One-Hand
Page:	148	150	154

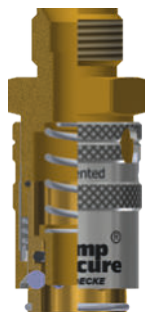
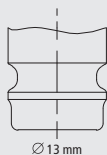
European Plug Profiles

**Temp
Secure**
by LUDECKE

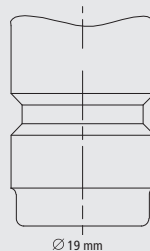
ESH
DN 9



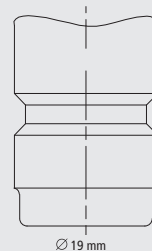
ESHT
DN 9



ESHG
DN 13



**Temp
Secure**
by LUDECKE
NEW!
ESHGT
DN 13



MS 58 plain
MS 58 (plain/ nickel-plated)
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
FKM
EPDM, FFKM
MS 58 (plain/ nickel-plated)
PN 15 bar
-20°C– +200°C**
ISO 228/ DIN 13
see chart p. 140
straight/ 45°/ 90°
single/ double/ straight-through
One-Hand
155

MS 58 plain
Special Brass (plain/ nickel-plated)
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
High-Performance FKM
EPDM, FFKM
MS 58 (plain/ nickel-plated)
PN 15 bar
-20°C– +220°C***
ISO 228/ DIN 13
see chart p. 140
straight/ 45°/ 90°
single/ double/ straight-through
One-Hand
159

MS 58 plain
MS 58 (plain/ nickel-plated)
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
FKM
EPDM, FFKM
MS 58 plain
PN 15 bar
-20°C– +200°C**
ISO 228/ DIN 13
see chart p. 140
straight/ 45°/ 90°
single/ double/ straight-through
One-Hand
160

MS 58 plain
Special Brass (plain/ nickel-plated)
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
High-Performance FKM
EPDM, FFKM
MS 58 (plain/ nickel-plated)
PN 15 bar
-20°C– +220°C***
ISO 228/ DIN 13
see chart p. 140
straight/ 45°/ 90°
single/ double/ straight-through
One-Hand
163

*couplings with shut-off valve: brass plain, couplings with straight-through valve: brass nickel-plated

**subject to media (oil: 200°C, water: 150°C, air: 200°C)

***subject to media (oil: 220°C, water: 180°C, air: 220°C)

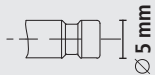
Special Brass: high resistant special brass

Temperature Regulation Quick Connect Couplings

Series ESHMC plug size 5 mm

DN 2.7

Plug Profile (original size)



- One-hand quick connect couplings with smallest dimensions made of brass MS 58
- For temperature regulation applications with hot or cold water as well as tempered oil
- The series DN 2.7 is especially suited for micro-parts production with very small tools in the plastic producing industry to connect cooling lines of moulds
- Optional with straight-through, single or double shut-off valves
- Due to the extended sleeve, plugs counter-sunk in the mould can be easily coupled and decoupled. The angled connections prevent thin-walled hoses from being bent

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- Balls: Stainless steel 1.3541
- Springs, retaining ring: Stainless steel 1.4310
- Seals: FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	2.7	DIN 13, DIN 158	One-hand	single/ double/ straight-thr.	Tempered Media	Coupl. 5 / Plug. 10

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 5	35	10	13.5	5	3.5	10	ESHMC 5 TL	ESHMC 5 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 5	41	10	13.5	5	3.5	8	ESHMC 5 TL-45	ESHMC 5 TL-45AB

Couplings with 90° standard hose stem without/with valve

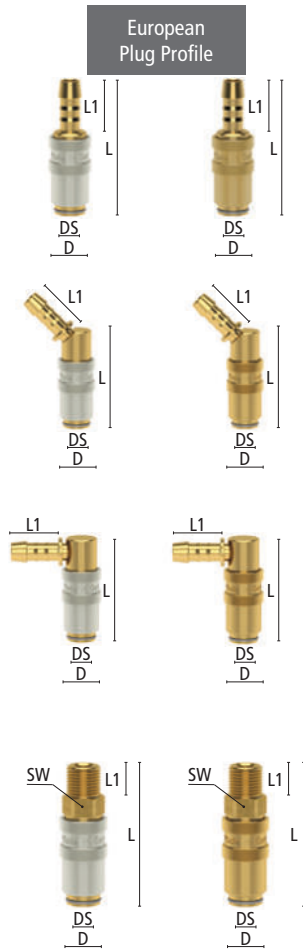
Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 5	29.5	10	13.5	5	3.5	8	ESHMC 5 TL-90	ESHMC 5 TL-90AB

Couplings with straight male thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
M 5x0.5 m	31	9	10	5	5	3.5	9	ESHMC 505 A	ESHMC 505 AAB
M 8x0.75 m	33	9	10	7	5	3.5	10	ESHMC 875 A	ESHMC 875 AAB

Suitable hose clips for hose couplings, double-ear hose clips or crimping ferrules for standard hoses – (© page 194 - 197)

*subject to media (oil: 200°C, water: 150°C, air: 200°C)

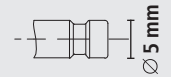


Temperature Regulation Quick Connect Couplings

plug size 5 mm **Series ESHMC**

DN 2.7

Plug Profile (original size)



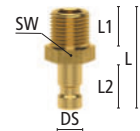
Plugs with straight standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 5	25	9	13.5	10	5	2.7	3	ESHMC 5 SL



Plugs with straight male thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
M 5x0.5 m	18	7	5	10	5	2.7	3	ESHMC 505 NA
M 8x0.75 m	20	9	7	10	5	2.7	4	ESHMC 875 NA



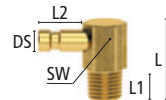
Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
M 5x0.5 m	33	9	5	10	5	2.7	7	ESHMC 505 NAAB
M 8x0.75 m	35	9	7	10	5	2.7	7	ESHMC 875 NAAB



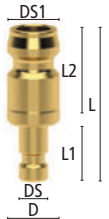
Plugs with 90° male thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
M 5x0.5 m	15.5	9	5	10	5	2.7	9	ESHMC 505 NA-90
M 8x0.75 m	17.5	9	5	10	5	2.7	11	ESHMC 875 NA-90



Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 2.7 - DN 2.7	22	6	10	10	5	5	2.7	3	ESHMC-ESHMC
DN 2.7 - DN 6	26.5	9	10	14	5	9	2.7	9	ESHMC-ESHM

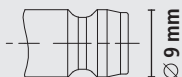


Temperature Regulation Quick Connect Couplings

Series ESHM plug size 9 mm

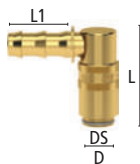
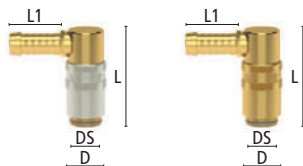
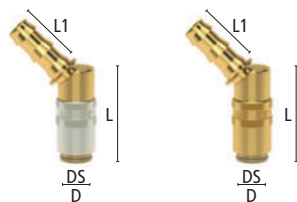
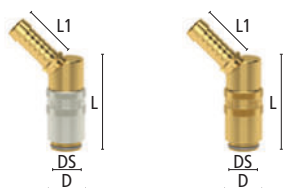
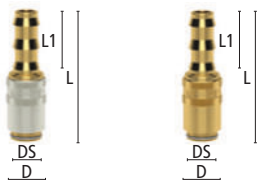
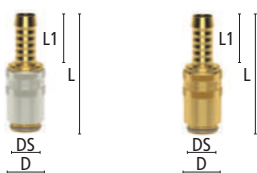
DN 6

Plug Profile (original size)



Also in Stainless Steel
Series ESHME
page 314

European
Plug Profile



- One-hand quick connect couplings with small dimensions made of brass MS 58
- For Temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses
- All couplings available with security lock, just add „S” on Type No. (Surcharge: 2.19 Euro gross)

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	6	ISO228/ DIN13/ DIN158	One-hand	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 6	53	18	22.5	9	5	40	ESHM 6 TL	ESHM 6 TLAB
Hose i.D. 9	53	18	22.5	9	6	45		ESHM 9 TLAB
Hose i.D. 9	53	18	22.5	9	6	45	ESHM 9 TL	
Hose i.D. 13	55	18	22.5	9	6	54	ESHM 13 TL	ESHM 13 TLAB

Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 6	58.5	18	28	9	5	42	ESHM 6 T	ESHM 6 TAB
Hose i.D. 10	58.5	18	28	9	6	49	ESHM 10 T	ESHM 10 TAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 6	42.5	18	22.5	9	5	58	ESHM 6 TL-45	ESHM 6 TL-45AB
Hose i.D. 9	42.5	18	22.5	9	6	62	ESHM 9 TL-45	ESHM 9 TL-45AB

Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 6	42.5	18	33	9	5	59	ESHM 6 T-45	ESHM 6 T-45AB
Hose i.D. 10	42.5	18	33	9	6	68	ESHM 10 T-45	ESHM 10 T-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 6	42.5	18	22.5	9	5	58	ESHM 6 TL-90	ESHM 6 TL-90AB
Hose i.D. 9	42.5	18	22.5	9	6	62	ESHM 9 TL-90	ESHM 9 TL-90AB

Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 6	42.5	18	28	9	5	59	ESHM 6 T-90	ESHM 6 T-90AB
Hose i.D. 10	42.5	18	28	9	6	68	ESHM 10 T-90	ESHM 10 T-90AB

Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 6	14	blue	50	0.3	AR-BL 6
For Hose i.D. 6	14	red	50	0.3	AR-RO 6
For Hose i.D. 6	14	yellow	50	0.3	AR-GE 6
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10

To put on coupling or plug stem before assembling the quick-fit hose!

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses – (© page 194 - 197)

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!

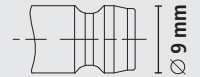
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Temperature Regulation Quick Connect Couplings

plug size 9 mm **Series ESHM**

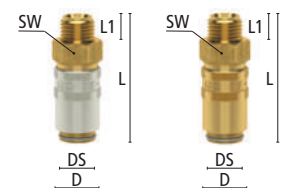
DN 6

Plug Profile (original size)



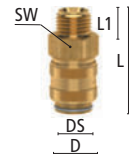
Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
G 1/4 m	48	17	18	9	9	6	60	ESHM 14 A	ESHM 14 AAB
G 3/8 m	48	19	18	9	9	6	70	ESHM 38 A	ESHM 38 AAB
M 10x1 m	46	17	18	7	9	6	60	ESHM 101 A	ESHM 101 AAB
M 14x1.5 m	48	17	18	9	9	6	60	ESHM 1415 A	ESHM 1415 AAB
M 16x1.5 m	48	19	18	9	9	6	70	ESHM 1615 A	ESHM 1615 AAB
G 1/4 m	52	17	18	11	9	6	65	ESHM 14 AL*	ESHM 14 ALAB
G 3/8 m	52	19	18	11	9	6	75	ESHM 38 AL*	ESHM 38 ALAB
M 14x1.5 m	52	17	18	11	9	6	65	ESHM 1415 AL*	ESHM 1415 ALAB



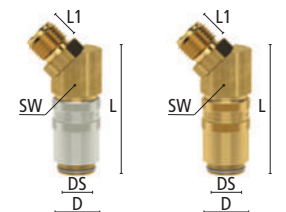
Couplings with straight male thread (short version) with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No.
G 1/4 m	38	17	18	9	9	6	45	ESHM 14 AKAB



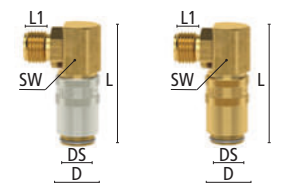
Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
G 1/4 m	47	17	18	9	9	6	65	ESHM 14 A-45	ESHM 14 A-45AB
G 3/8 m	47	19	18	10	9	6	75	ESHM 38 A-45	ESHM 38 A-45AB
M 10x1 m	47	17	18	7	9	6	65	ESHM 101 A-45	ESHM 101 A-45AB
M 14x1.5 m	47	17	18	9	9	6	65	ESHM 1415 A-45	ESHM 1415A-45AB
M 16x1.5 m	47	19	18	9	9	6	75	ESHM 1615 A-45	ESHM 1615A-45AB
G 3/8 m	47	19	18	11	9	6	80	ESHM 38 AL-45*	ESHM 38 AL-45AB*



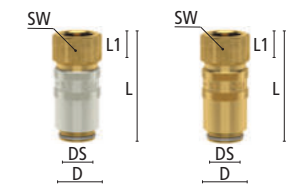
Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
G 1/4 m	47	17	18	9	9	6	75	ESHM 14 A-90	ESHM 14 A-90AB
G 3/8 m	47	19	18	9	9	6	85	ESHM 38 A-90	ESHM 38 A-90AB
M 10x1 m	47	17	18	7	9	6	75	ESHM 101 A-90	ESHM 101 A-90AB
M 14x1.5 m	47	17	18	9	9	6	75	ESHM 1415 A-90	ESHM 1415A-90AB
M 16x1.5 m	47	19	18	9	9	6	85	ESHM 1615 A-90	ESHM 1615A-90AB
G 3/8 m	47	19	18	11	9	6	90	ESHM 38 AL-90*	ESHM 38 AL-90AB*



Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
G 1/4 f	41.5	17	18	9	9	6	50	ESHM 14 I	ESHM 14 IAB
G 3/8 f	42	21	18	9	9	6	60	ESHM 38 I	ESHM 38 IAB
M 10x1 f	41.5	17	18	9	9	6	50	ESHM 101 I	ESHM 101 IAB
M 14x1.5 f	41.5	17	18	9	9	6	50	ESHM 1415 I	ESHM 1415 IAB



Couplings with plug DN 9 - ESH System Adapters and ESHM-ESD System Adapter

Thread connect.	L	D	L1	DS	Passage	Version	Weight	Type No. w/o v.	Type No. w valve
DN 6 - DN 9	44	18	14	9	6	straight	75	ESHMK-ESHS	ESHMK-ESHS-AB
DN 6 - DN 9	49	18	14	9	6	45°	80	ESHMK-ESHS-45	ESHMK-ESHS-45AB
DN 6 - DN 9	47	18	14	9	6	90°	80	ESHMK-ESHS-90	ESHMK-ESHS-90AB
DN 6 - DN 6	47	18	10.5	9	6	straight	70	ESHMK-ESDMS	ESHMK-ESDMS-AB
DN 6 - DN 9	47	18	15.5	9	6	straight	75	ESHMK-ESDS	ESHMK-ESDS-AB

*Version AL with longer male thread mainly used for assembly with Ermeto fittings.

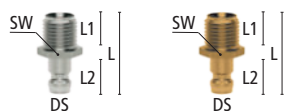
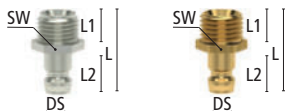
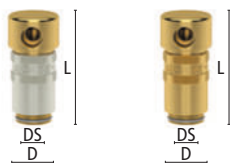
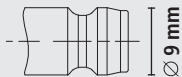


Temperature Regulation Quick Connect Couplings

Series ESHM plug size 9 mm

DN 6

Plug Profile (original size)



Diversion coupling for temperature regulation bridges with 90° tube connection without/with valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 8/6	43	18	9	6	63	ESHM 8-U	ESHM 8-UAB

Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 8/6	250	8	6	45	TR 250-8
Tube 8/6	500	8	6	93	TR 500-8

Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	30	18	9	37	ESHM-B

Plugs with straight standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	39.5	12	22.5	14	9	5	9	ESHM 6 SL
Hose i.D. 9	39.5	12	22.5	14	9	6	13	ESHM 9 SL
Hose i.D. 13	39.5	16	22.5	14	9	6	17	ESHM 13 SL

Plugs with straight quick-fit hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	44	12	28	14	9	5	11	ESHM 6 S
Hose i.D. 10	44	16	28	14	9	6	18	ESHM 10 S

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	24	11	7	14	9	6	10	ESHM 18 NA*
G 1/4 m	26	15	9	14	9	6	14	ESHM 14 NA*
G 3/8 m	27	17	9	14	9	6	18	ESHM 38 NA*
M 8x0.75 m	24	11	7	14	9	4.5	9	ESHM 875 NA
M 10x1 m	24	11	7	14	9	6	8	ESHM 101 NA
M 14x1.5 m	26	15	9	14	9	6	14	ESHM 1415 NA
M 16x1.5 m	26	17	9	14	9	6	18	ESHM 1615 NA

Plugs with straight male thread and inner hexagon without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	System	Type No.
G 1/8 m	24	11	7	14	9	6	10	SW5,19mm depth	ESHM 18 NAIB*
G 1/4 m	26	15	9	14	9	6	14	SW5,19mm depth	ESHM 14 NAIB*
M 10x1 m	24	11	7	14	9	6	8	SW5,19mm depth	ESHM 101 NAIB
M 14x1.5 m	26	15	9	14	9	6	14	SW5,19mm depth	ESHM 1415 NAIB

For easy assembly with Allen key countersunk in the tool

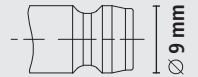
*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

plug size 9 mm **Series ESHM**

DN 6

Plug Profile (original size)



Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 f	27	14	9	14	9	6	15	ESHM 18 NI*
G 1/4 f	27	17	9	14	9	6	19	ESHM 14 NI*
G 3/8 f	27	19	10	14	9	6	25	ESHM 38 NI*

Plugs with 90° male thread without valve (metrical thread DIN 158/R-thread DIN EN 10226)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/8 m	27	15	9	14	9	6	35	ESHM 18 NA-90*
R 1/4 m	29	15	11	14	9	6	40	ESHM 14 NA-90*
R 3/8 m	30	17	12	14	9	6	44	ESHM 38 NA-90*
M 8x0.75 m	27	15	9	14	9	4.5	38	ESHM 875 NA-90
M 10x1 m	27	15	9	14	9	6	38	ESHM 101 NA-90
M 14x1.5 m	29	15	11	14	9	6	40	ESHM 1415 NA-90

Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	40	15	8	14	9	6	13	ESHM 18 NAAB*
G 1/4 m	29	15	12	14	9	6	14	ESHM 14 NAAB*
G 3/8 m	30	17	12	14	9	6	22	ESHM 38 NAAB*
M 14x1.5 m	29	15	12	14	9	6	15	ESHM 1415 NAAB

Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/8 m	100	11	60	14	10	9	6	36	ESHM 18-60 NA
G 1/4 m	100	14	60	14	10	9	6	58	ESHM 14-60 NA
G 3/8 m	100	17	60	14	10	9	6	90	ESHM 38-60 NA
M 10x1 m	100	11	60	14	10	9	6	36	ESHM 101-60 NA
M 14x1.5 m	100	14	60	14	10	9	6	61	ESHM 1415-60 NA

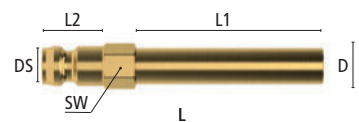
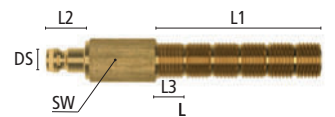
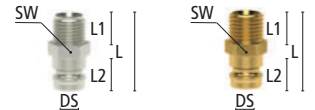
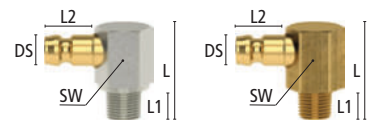
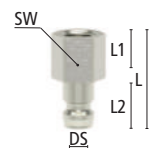
Plug Tubes for countersunk mould threads (for length cutting as needed)

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	9	42	14	9	5	14	ESHM 63 R
8	100	9	79	14	9	5	20	ESHM 100 R
10	63	11	42	14	9	6	20	ESHM 63 R10
10	100	11	79	14	9	6	41	ESHM 100 R10
10	120	11	99	14	9	6	49	ESHM 120 R
10	240	11	219	14	9	6	103	ESHM 240 R
10	360	11	339	14	9	6	157	ESHM 360 R
14	150	15	127	14	9	6	114	ESHM 150 R-14

Plug System Adapters

Connection	L	L1	L2	DS	DS1	Weight	Type No.
DN 6 - DN 6	34	14	14	9	9	14	ESHM-ESHM
DN 9 - DN 6	34	14	14	9	13	18	ESH-ESHM
Protection cap (plastic) for plug profile ESHM					100		ESHM-K

*Plugs with inch thread nickel-plated for simple distinction



Temperature Regulation Quick Connect Couplings

Series ESHMT Plug size 9 mm - with Automatic Locking Mechanism

DN 6

Plug Profile (original size)



Also in Stainless Steel
Series ESHMTE
Page 316

European
Plug Profile

- One-hand quick connect couplings with small dimensions and patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- To be coupled with plug Series ESHM DN 6 (page 152)
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Plug: Brass MS 58 plain/ nickel-plated
- Balls: Stainless steel 1.4034
- Springs, retaining ring: Stainless steel 1.4310
- Seals: High-Performance FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +220°C*	6	ISO 288/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5

Couplings with straight standard hose barb without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No w/o valve	Type No. w valve
Hose i.D. 9	61	18	22.5	9	6	58	ESHMT 9 TL	ESHMT 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No w/o valve	Type No. w valve
Hose i.D. 9	54	18	22.5	9	6	82	ESHMT 9 TL45	ESHMT 9 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No w/o valve	Type No. w valve
Hose i.D. 9	56	18	22.5	9	6	91	ESHMT 9 TL90	ESHMT 9 TL90AB

Couplings with straight male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No w/o valve	Type No. w valve
G 1/4 m	56.5	17	18	11	9	6	73	ESHMT14AL	ESHMT14ALAB
G 3/8 m	56.5	19	18	11	9	6	76	ESHMT38AL	ESHMT38ALAB
M 14x1.5 m	56.5	17	18	11	9	6	76	ESHMT1415AL	ESHMT1415ALAB
M 16x1.5 m	57	19	18	11	9	6	76	ESHMT1615AL	ESHMT1615ALAB

Couplings with 45° male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No w/o valve	Type No. w valve
G 1/4 m	56	17	18	11	9	6	85	ESHMT14AL45	ESHMT14AL45AB
G 3/8 m	56	17	18	11	9	6	101	ESHMT38AL45	ESHMT38AL45AB
M 14x1.5 m	56	17	18	11	9	6	87	ESHMT1415AL45	ESHMT1415AL45AB
M 16x1.5 m	56	17	18	11	9	6	87	ESHMT1615AL45	ESHMT1615AL45AB

Couplings with 90° male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No w/o valve	Type No. w valve
G 1/4 m	56	17	18	11	9	6	94	ESHMT14AL90	ESHMT14AL90AB
G 3/8 m	56	17	18	11	9	6	100	ESHMT38AL90	ESHMT38AL90AB
M 14x1.5 m	56	17	18	11	9	6	96	ESHMT1415AL90	ESHMT1415AL90AB
M 16x1.5 m	56	17	18	11	9	6	96	ESHMT1615AL90	ESHMT1615AL90AB

Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

**Temp[®]
Secure**
by LUDECKE



Temperature Regulation Quick Connect Couplings

Plug size 13 mm **Series ESH**

- One-hand quick connect couplings made of brass MS 58
- **For temperature regulation applications with hot or cold water as well as tempered oil**
- Optional with straight-through, single or double shut-off valves
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses
- All couplings available with security lock, just add „S“ on Type No. (Surcharge: 2.19 Euro gross)

Materials

- Body, valve body: Brass MS 58 plain
- Sleeve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	9	ISO 228 / DIN 13	One-hand	Single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61.5	23.5	25	13	7	72	ESH 9 TL	ESH 9 TLAB
Hose i.D. 13	61.5	23.5	25	13	9	81		ESH 13 TLAB
Hose i.D. 13	61.5	23.5	25	13	9	81	ESH 13 TL	

Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	64.5	23.5	28	13	7	76	ESH 10 T	ESH 10 TAB
Hose i.D. 13	64.5	23.5	28	13	9	84	ESH 13 T	ESH 13 TAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	23.5	30	13	7	103	ESH 9 TL-45	ESH 9 TL-45AB
Hose i.D. 13	51	23.5	30	13	9	109	ESH 13 TL-45	ESH 13 TL-45AB

Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	51	23.5	33	13	7	108	ESH 10 T-45	ESH 10 T-45AB
Hose i.D. 13	51	23.5	33	13	9	111	ESH 13 T-45	ESH 13 T-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	23.5	30	13	7	105	ESH 9 TL-90	ESH 9 TL-90AB
Hose i.D. 13	51	23.5	30	13	9	111	ESH 13 TL-90	ESH 13 TL-90AB

Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	51	23.5	33	13	7	110	ESH 10 T-90	ESH 10 T-90AB
Hose i.D. 13	51	23.5	33	13	9	113	ESH 13 T-90	ESH 13 T-90AB

Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10
For Hose i.D. 13	20	blue	50	0.7	AR-BL 13
For Hose i.D. 13	20	red	50	0.7	AR-RO 13
For Hose i.D. 13	20	yellow	50	0.7	AR-GE 13

To put on coupling or plug stem before assembling the quick-fit hose

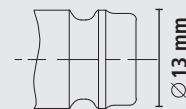
Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 194 - 197)

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!

*subject to media (oil: 200°C, water: 150°C, air: 200°C)

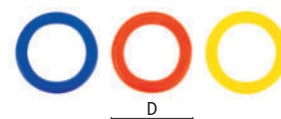
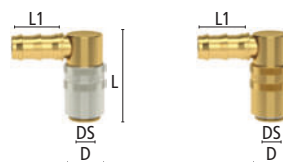
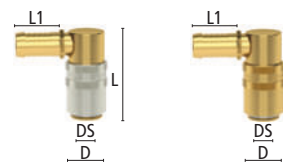
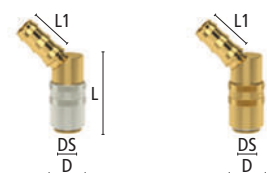
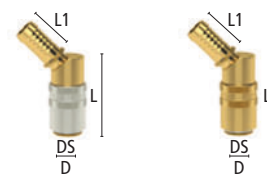
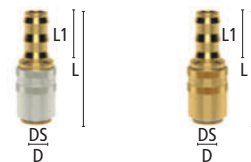
DN 9

Plug Profile (original size)



Also in Stainless Steel
Series ESHE
Page 317

European
Plug Profile

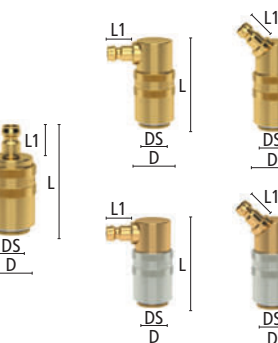
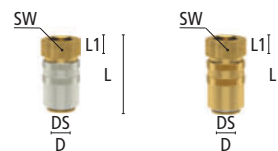
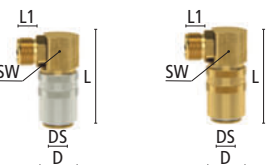
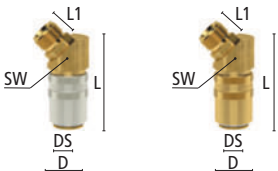
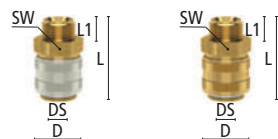
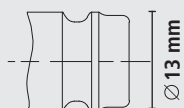


Temperature Regulation Quick Connect Couplings

Series ESH Plug size 13 mm

DN 9

Plug Profile (original size)



Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	22	23.5	9	13	9	90	ESH 14 A	ESH 14 AAB
G 3/8 m	52	22	23.5	9	13	9	94	ESH 38 A	ESH 38 AAB
G 1/2 m	53	24	23.5	10	13	9	95	ESH 12 A	ESH 12 AAB
M 14x1.5 m	56	22	23.5	11	13	9	90	ESH 1415 A	ESH 1415 AAB
M 16x1.5 m	52	22	23.5	9	13	9	93	ESH 1615 A	ESH 1615 AAB
M 18x1.5 m	54	22	23.5	11	13	9	105	ESH 1815 A	ESH 1815 AAB
G 3/8 m	56	22	23.5	11	13	9	105	ESH 38 AL*	ESH 38 ALAB*
G 1/2 m	57	24	23.5	14	13	9	110	ESH 12 AL*	ESH 12 ALAB*
M 16x1.5 m	56	22	23.5	13	13	9	105	ESH 1615 AL*	ESH 1615 ALAB*

Couplings with straight male thread (short version) with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	38	22	23.5	9	13	9	61	ESH 38 AK	ESH 38 AKAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	54	22	23.5	9	13	9	128	ESH 14 A-45	ESH 14 A-45AB
G 3/8 m	54	22	23.5	9	13	9	114	ESH 38 A-45	ESH 38 A-45AB
M 14x1.5 m	56	22	23.5	11	13	9	114	ESH 1415 A-45	ESH 1415 A-45AB
M 16x1.5 m	54	22	23.5	9	13	9	114	ESH 1615 A-45	ESH 1615 A-45AB
G 1/4 m	54	22	23.5	11	13	9	128	ESH 14 AL-45	ESH 14 AL-45 AB
G 3/8 m	58	22	23.5	11	13	9	125	ESH 38 AL-45*	ESH 38 AL-45AB*

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	54	22	23.5	9	13	9	126	ESH 14 A-90	ESH 14 A-90AB
G 3/8 m	54	22	23.5	9	13	9	126	ESH 38 A-90	ESH 38 A-90AB
M 14x1.5 m	56	22	23.5	11	13	8	126	ESH 1415 A-90	ESH 1415 A-90AB
M 16x1.5 m	54	22	23.5	9	13	9	126	ESH 1615 A-90	ESH 1615 A-90AB
G 1/4 m	54	22	23.5	11	13	9	126	ESH 14 AL-90*	ESH 14 AL-90AB
G 3/8 m	58	22	23.5	11	13	9	125	ESH 38 AL-90*	ESH 38 AL-90AB*

Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	23.5	9	13	9	75	ESH 14 I	ESH 14 IAB
G 3/8 f	46	22	23.5	9	13	9	110	ESH 38 I	ESH 38 IAB
G 1/2 f	49	24	23.5	12	13	9	110	ESH 12 I	ESH 12 IAB

Couplings with Plugs DN 6 - ESHM - System Adapter and ESH-ESD System Adapter

Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 9 - DN 6	51	23.5	14	13	6	straight	100	ESHK-ESHMS	ESHK-ESHMS-AB
DN 9 - DN 6	51	23.5	14	13	6	45°	100	ESHK-ESHMS-45	ESHK-ESHMS-45AB
DN 9 - DN 6	51	23.5	14	13	6	90°	100	ESHK-ESHMS-90	ESHK-ESHMS-90AB
DN 9 - DN 6	51	23.5	10.5	13	6	straight	85	ESHK-ESDMS	ESHK-ESDMS-AB
DN 9 - DN 9	51	23.5	15.5	13	9	straight	100	ESHK-ESDS	ESHK-ESDS-AB

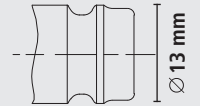
*Version AL with longer male thread mainly used for assembly with Ermeto fittings.

Temperature Regulation Quick Connect Couplings

Plug size 13 mm **Series ESH**

DN 9

Plug Profile (original size)



Diversion coupling for temperature regulation bridges with 90° tube connection without/ with valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 10/8	53	23.5	13	9	118	ESH 10-U	ESH 10-UAB

Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 10/8	250	10	8	60	TR 250-10
Tube 10/8	500	10	8	120	TR 500-10

Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	37	23.5	13	67	ESH-B

Plugs with straight standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 9	39.5	14.5	22.5	14	13	7	23	ESH 9 SL
Hose i.D. 13	42	16	25	14	13	9	25	ESH 13 SL

Plugs with straight quick-fit hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 10	43.5	14.5	28	14	13	7	24	ESH 10 S
Hose i.D. 13	43.5	16	28	14	13	9	26	ESH 13 S

Plugs with straight male thread without valve (inner cone DIN 3863)

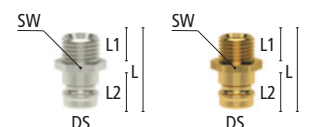
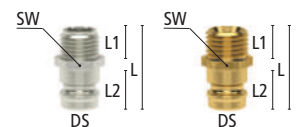
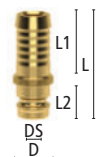
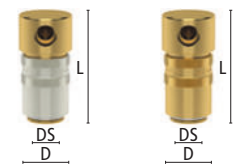
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	24	15	7	14	13	6	16	ESH 18 NA*
G 1/4 m	26	15	9	14	13	9	17	ESH 14 NA*
G 3/8 m	26	17	9	14	13	9	22	ESH 38 NA*
G 1/2 m	31	22	12	14	13	9	42	ESH 12 NA*
G 3/4 m	35	27	16	14	13	9	110	ESH 34 NA*
M 10x1 m	24	15	7	14	13	6.5	14	ESH 101 NA
M 14x1.5 m	26	15	9	14	13	9	16	ESH 1415 NA
M 16x1.5 m	26	17	9	14	13	9	20	ESH 1615 NA
M 18x1.5 m	26	19	9	14	13	9	25	ESH 1815 NA

Plugs with straight male thread with inner Hexagon without valve

Thread	L	SW	L1	L2	DS	Passage	Weight	Version	Type No.
G 1/4 m	26	17	9	14	13	9	17	SW8, 17mm depth	ESH 14 NAIB*
M 14x1.5 m	26	17	9	14	13	9	16	SW8, 17mm depth	ESH 1415 NAIB

For easy assembly with Allen key countersunk in the tool

*Plugs with inch thread nickel-plated for simple distinction

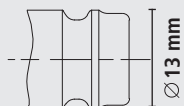


Temperature Regulation Quick Connect Couplings

Series ESH Plug size 13 mm

DN 9

Plug Profile (original size)



Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 3/8 f	26	19	10	14	13	9	42	ESH 38 NI*
G 1/2 f	29	24	10	14	13	9	55	ESH 12 NI*

Plugs with 90° male thread without valve (metrical thread DIN 158/R-thread DIN EN 10226)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/4 m	34	17	11	25	13	9	45	ESH 14 NA-90*
M 14x1.5 m	34	17	11	25	13	9	47	ESH 1415 NA-90
R 3/8 m	35	17	12	25	13	9	45	ESH 38 NA-90*

Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	11	14	13	6	24	ESH 14 NAAB*
G 3/8 m	31	17	12	14	13	9	28	ESH 38 NAAB*
G 1/2 m	31	22	12	14	13	9	48	ESH 12 NAAB*
M 14x1.5 m	30	15	11	14	13	6	26	ESH 1415 NAAB
M 16x1.5 m	31	17	12	14	13	9	28	ESH 1615 NAAB
M 18x1.5 m	30	19	12	14	13	9	30	ESH 1815 NAAB

Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/4 m	100	14	60	14	10	13	9	60	ESH 14-60 NA
G 1/4 m	57	15	34	14	16	13	9	38	ESH 14 NAL18
G 1/4 m	110	15	87	14	16	13	9	75	ESH 14 NAL71
G 3/8 m	100	17	60	14	10	13	9	91	ESH 38-60 NA
M 14x1.5 m	100	14	60	14	10	13	9	55	ESH 1415-60 NA
M 16x1.5 m	100	17	60	14	10	13	9	93	ESH 1615-60 NA

Plug Tubes for countersunk mould threads (for length cutting as needed)

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	14	13	9	114	ESH 150 R
14	300	15	277	14	13	9	210	ESH 300 R
14	450	15	427	14	13	9	344	ESH 450 R
10	150	15	127	14	13	6	65	ESH 150 R-10

Plug System - Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 9 - DN 6	34	14	14	14	9	13	6	18	ESH-ESHM
DN 9 - DN 9	34	14	14	14	13	13	9	24	ESH-ESH

Plugs with counterpart system "ARBURG" – System Adapters

System	Thread	L	SW	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 9 ESH-Arburg	-	64	-	22	14	13	14.8	9	77	ESH-ARB
Arburg	G 1/4 f	50	21	22	14	-	14.8	9	85	ARB 14 NI
Arburg	G 3/8 f	50	21	22	14	-	14.8	9	84	ARB 38 NI

Protection cap (plastic) for plug profile ESH

100

ESH-K

*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Plug size 13 mm – with Automatic Locking Mechanism **Series ESHT**

- One-hand quick connect couplings with patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- **For temperature regulation applications with hot or cold water as well as tempered oil**
- Optional with straight-through, single or double shut-off valves
- To be coupled with plug series ESH DN 9 (page 157)
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: high resistant special brass plain/ nickel-plated
- Plug: Brass MS 58 plain/ nickel-plated
- Balls: Stainless steel 1.4034
- Springs, retaining ring: Stainless steel 1.4310
- Seals: High-Performance FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +220°C*	9	ISO 228 / DIN 13	One-hand	Single/double/straight-through	Tempered media	5

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	63	23.5	25	13	9	81	ESHT 13 TL	ESHT 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55.5	22	23.5	25	13	9	138	ESHT 13 TL45	ESHT 13 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55.5	22	23.5	25	13	9	140	ESHT 13 TL90	ESHT 13 TL90AB

Couplings with straight male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
NEW! G 1/4 m	56	22	23.5	12.5	13	9	98	ESHT14AL	ESHT14ALAB
G 3/8 m	56	22	23.5	12.5	13	9	94	ESHT38AL	ESHT38ALAB
M 16x1.5 m	56	22	23.5	12.5	13	9	93	ESHT1615AL	ESHT1615ALAB
NEW! M 18x1.5 m	56	22	23.5	12.5	13	9	100	ESHT1815AL	ESHT1815ALAB

Couplings with 45° male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
NEW! G 1/4 m	55.5	22	23.5	12	13	9	130	ESHT14AL45	ESHT14AL45AB
G 3/8 m	55.5	22	23.5	12.5	13	9	134	ESHT38AL45	ESHT38AL45AB
M 16x1.5 m	55.5	22	23.5	12	13	9	132	ESHT1615AL45	ESHT1615AL45AB

Couplings with 90° male long thread without/with valve (inner cone DIN 3863)

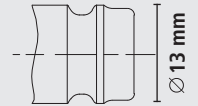
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
NEW! G 1/4 m	55.5	22	23.5	12.5	13	9	130	ESHT14AL90	ESHT14AL90AB
G 3/8 m	55.5	22	23.5	12.5	13	9	134	ESHT38AL90	ESHT38AL90AB
M 16x1.5 m	55.5	22	23.5	12	13	9	132	ESHT1615AL90	ESHT1615AL90AB

Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

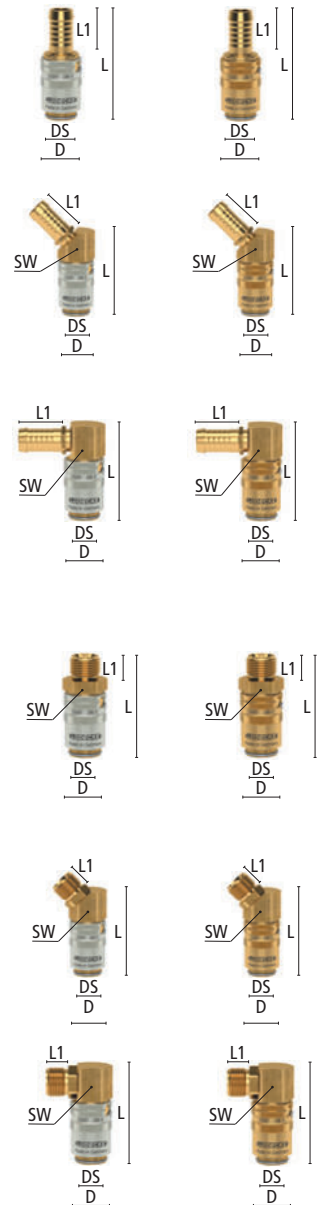
DN 9

Plug Profile (original size)



Also in Stainless steel
Series ESHTe
Page 319

European
Plug Profile



**Temp[®]
Secure**
by LUDECKE

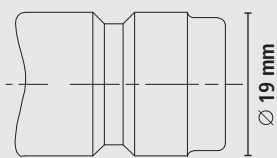


Temperature Regulation Quick Connect Couplings

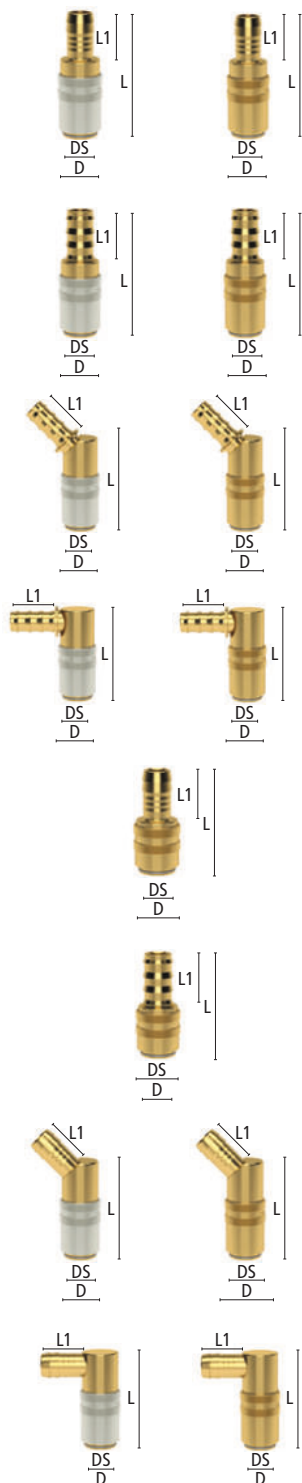
Series ESHG Plug size 19 mm

DN 13

Plug Profile (original size)



European Plug Profile



- One-hand quick connect couplings with high flow rates made of brass MS 58
- **For temperature regulation applications with hot or cold water as well as tempered oil**
- Optional with straight-through, single or double shut-off valves
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses
- All couplings available with security lock, just add "S" on Type No. (Surcharge: 2.19 Euro gross)

Materials:

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	13	ISO 228 / DIN 13	One-hand	Single/double/straight-through	Tempered media	Coupl. 1 / Plug 5

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 13	83	31	25	19	9	200	ESHG 13 TL	ESHG 13 TLAB
Hose i.D. 19	92	31	34	19	13	222	ESHG 19 TL	ESHG 19 TLAB

Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 16	96	31	38	19	13	222	ESHG 16 T	ESHG 16 TAB
Hose i.D. 19	96	31	38	19	13	240	ESHG 19 T	ESHG 19 TAB

Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 16	82	31	38	19	13	320	ESHG 16 T-45	ESHG 16 T-45AB

Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 16	82	31	38	19	13	320	ESHG 16 T-90	ESHG 16 T-90AB

Couplings with straight hose stem – short version without one-hand operation and without valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve
Hose i.D. 19	71	31	34	19	13	170	ESHG 19 TLK

Couplings with straight quick fit hose stem – short version without one-hand operation and without valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve
Hose i.D. 16	75	31	38	19	13	163	ESHG 16 TK
Hose i.D. 19	75	31	38	19	13	180	ESHG 19 TK

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 19	78	31	36	19	13	305	ESHG 19 TL-45	ESHG 19 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Hose i.D. 19	78	31	34	19	13	310	ESHG 19 TL-90	ESHG 19 TL-90AB

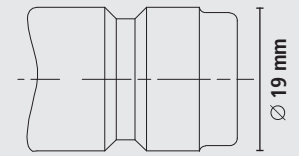
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Temperature Regulation Quick Connect Couplings

Plug size 19 mm **Series ESHG**

DN 13

Plug Profile (original size)



Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
G 1/2 m	74	30	31	12	19	13	228	ESHG 12 A	ESHG 12 AAB
M 24x1.5 m	78	30	31	16	19	13	250	ESHG 2415 A	ESHG 2415 AAB
G 3/4 m	78	30	31	16	19	13	250	ESHG 34 A	ESHG 34 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
G 3/4 m	81	30	31	18	19	13	372	ESHG 34 A-45	ESHG 34 A-45AB
M 24x1.5 m	81	30	31	18	19	13	328	ESHG 2415 A-45	ESHG 2415A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
G 3/4 m	81	30	31	18	19	13	380	ESHG 34 A-90	ESHG 34 A-90AB
M 24x1.5 m	81	30	31	18	19	13	338	ESHG 2415 A-90	ESHG 2415 A90AB

Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
G 3/4 f	78	33	31	16	19	13	270	ESHG 34 I	ESHG 34 IAB

Diversion coupling for temperature regulation bridges with 90° tube connection without/with valve

Connection	L	D	DS	Passage	Weight	Type No. w/o v.	Type No. w valve
Tube 14/12	80	31	19	12	350	ESHG 14-U	ESHG 14-UAB

Tube (chamfered) for diversion couplings (temperature regulation tube) hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 14/12	500	14	12	170	TR 500-14

Marking rings for easy and clear identification of quick-fit hose lines

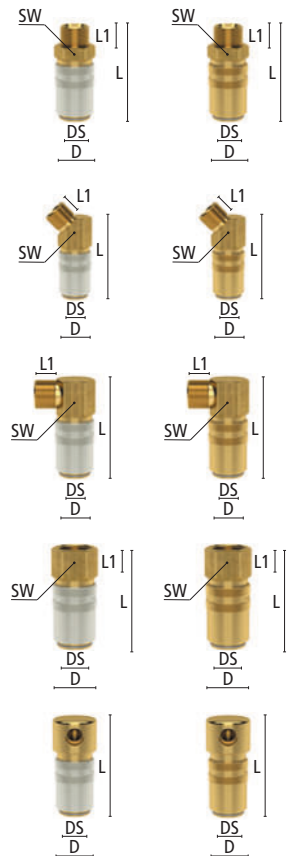
Version	D	Colour	Weight	Type No.
For Hose i.D. 16	25	blue	10	AR-BL 16
For Hose i.D. 16	25	red	10	AR-RO 16
For Hose i.D. 16	25	yellow	10	AR-GE 16

To put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 194 - 197)

Other types/ sizes on request

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!

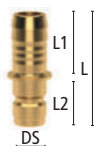
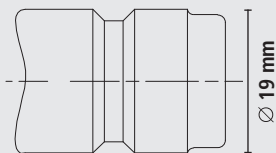


Temperature Regulation Quick Connect Couplings

Series ESHG Plug size 19 mm

DN 13

Plug Profile (original size)



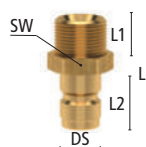
Plugs with straight standard hose stem without valve

Hose connection	L	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 13	54	25	27	19	9	52	ESHG 13 SL
Hose i.D. 19	63	34	27	19	13	81	ESHG 19 SL



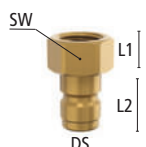
Plugs with straight quick-fit hose stem without valve

Hose connection	L	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 16	67	38	27	19	13	63	ESHG 16 S
Hose i.D. 19	67	38	27	19	13	93	ESHG 19 S



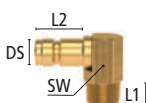
Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/2 m	47	22	12	27	19	13	64	ESHG 12 NA*
G 3/4 m	51	27	16	27	19	13	107	ESHG 34 NA*
M 24x1.5 m	51	27	16	27	19	13	97	ESHG 2415 NA



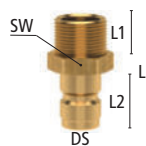
NEW! Plugs with straight female thread without valve

Thread connection	L	L1	L2	DS	Passage	Weight	Type No.
G 1/2 f	42	12	27	19	13	77	ESHG 12 NI
G 3/4 f	42	12	27	19	13	60	ESHG 34 NI



Plugs with 90° male thread without valve (metrical thread DIN 158/ R-thread DIN EN 10226)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/2 m	47	24	16	27	19	13	100	ESHG 12 NA-90*
M 24x1.5 m	47	24	16	27	19	13	105	ESHG 2415 NA-90



Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/2 m	47	22	12	27	19	13	84	ESHG 12 NAAB*
G 3/4 m	51	27	16	27	19	13	90	ESHG 34 NAAB*
M 24x1.5 m	51	27	16	27	19	13	86	ESHG 2415 NAAB

Protection cap (plastic) for plug profile ESHG

100

ESHG-K

*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Plug size 19 mm – with Automatic Locking Mechanism **Series ESHGT**

- One-hand quick connect couplings with patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- To be coupled with plug series ESHG DN 13 (page 162)
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: High-Performance FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +220°C*	13	ISO 228 / DIN 13	One-hand	Single/double/straight-through	Tempered media	5

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	82	32.5	25	19	9	131	ESHGT 13 TL	ESHGT 13 TLAB
Hose i.D. 19	90	32.5	34	19	14	210	ESHGT 19 TL	ESHGT 19 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	82	32.5	25	19	9	131	ESHGT 13 TL45	ESHGT 13 TL45AB
Hose i.D. 19	90	32.5	34	19	14	210	ESHGT 19 TL45	ESHGT 19 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	82	32.5	25	19	9	131	ESHGT 13 TL90	ESHGT 13 TL90AB
Hose i.D. 19	90	32.5	34	19	14	210	ESHGT 19 TL90	ESHGT 19 TL90AB

Couplings with straight male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/2 m	76	30	32.5	15	19	13	226	ESHGT12AL	ESHGT12ALAB
G 3/4 m	77	30	32.5	16	19	13	252	ESHGT34AL	ESHGT34ALAB
M 24x1.5 m	77	30	32.5	16	19	13	242	ESHGT2415AL	ESHGT2415ALAB

Couplings with 45° male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/2 m	81	30	32.5	16	19	13	332	ESHGT12AL45	ESHGT12AL45AB
G 3/4 m	81	30	32.5	16	19	13	357	ESHGT34AL45	ESHGT34AL45AB
M 24x1.5 m	81	30	32.5	17	19	13	348	ESHGT2415AL45	ESHGT2415AL45AB

Couplings with 90° male long thread without/with valve (inner cone DIN 3863)

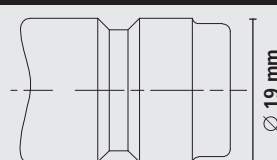
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/2 m	81	30	32.5	16	19	13	334	ESHGT12AL90	ESHGT12AL90AB
G 3/4 m	81	30	32.5	16	19	13	361	ESHGT34AL90	ESHGT34AL90AB
M 24x1.5 m	81	30	32.5	17	19	13	350	ESHGT2415AL90	ESHGT2415AL90AB

Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

DN 13

Plug Profile (original size)



Also in Stainless steel
Series ESHGTE
Page 320

European
Plug Profile



**Temp[®]
Secure**
by LUDECKE



Overview of Quick Connect Couplings with

**Temp[®]
Secure**
by **LUDECKE**

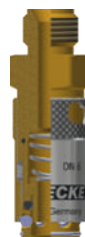
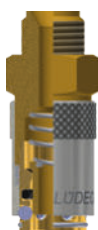
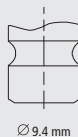
Series

ESDM
DN 6

ESDMT
DN 6

ESDMF
DN 6

Plug profile
(original size)



Materials:

Body:
Sleeve*:
Valve body:
Valve:
Springs, Retaining Ring:
Balls:
Seals:
Special seals for other media on request:
Plug:
Max. Working Pressure:
Temperature:
Thread Types:
Flow rate:
Connection:
Type of Valve:
Operation:
Page:

MS 58 plain
MS 58 (plain/ nickel-plated)
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
FKM
EPDM, FFKM
MS 58 (plain/ nickel-plated)
PN 15 bar
-20°C– +200°C**
ISO 228, DIN 13
see chart p. 140
straight/ 45°/ 90°
single/ double/ straight-through
One-Hand
166

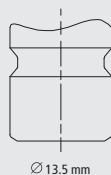
MS 58 plain
Special Brass (plain/ nickel-plated)
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
High-Performance FKM
EPDM, FFKM
MS 58 (plain/ nickel-plated)
PN 15 bar
-20°C– +220°C***
ISO 228, DIN 13
see chart p. 140
straight/ 45°/ 90°
single/ double/ straight-through
One-Hand
170

MS 58 plain
MS 58 (plain/ nickel-plated)
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
FKM (flat sealing)
-
MS 58 (plain/ nickel-plated)
PN 15 bar
-20°C– +200°C**
ISO 228, DIN 13
see chart p. 140
straight/ 45°/ 90°
single/ double/ straight-through
Two-Hands
171

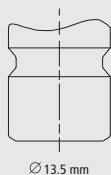
International Plug Profiles



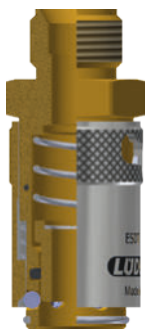
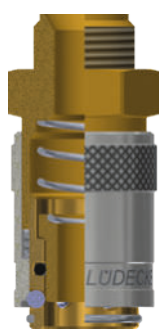
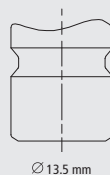
ESD
DN 9



ESDT
DN 9



ESDF
DN 9



MS 58 plain
MS 58 (plain/ nickel-plated)
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
FKM
EPDM, FFKM
MS 58 (plain/ nickel-plated)
PN 15 bar
-20°C– +200°C**
ISO 228, DIN 13
see chart p. 140
straight/ 45°/ 90°
single/ double/ straight-through
One-Hand
175

MS 58 plain
Special Brass (plain/ nickel-plated)
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
High-Performance FKM
EPDM, FFKM
MS 58 (plain/ nickel-plated)
PN 15 bar
-20°C– +220°C***
ISO 228, DIN 13
see chart p. 140
straight/ 45°/ 90°
single/ double/ straight-through
One-Hand
179

MS 58 plain
MS 58 (plain/ nickel-plated)
MS 58 plain
MS 58 plain
Stainless Steel 1.4310
Stainless Steel 1.4034
FKM (flat sealing)
-
MS 58 (plain/ nickel-plated)
PN 15 bar
-20°C– +200°C**
ISO 228, DIN 13
see chart p. 140
straight/ 45°/ 90°
single/ double/ straight-through
Two-Hands
180

*Couplings with shut-off valve:
brass plain, couplings with straight-
through valve: brass nickel-plated

**subject to media (oil: 200°C.,
water: 150°C, air: 200°C)

***subject to media (oil: 220°C,
water: 180°C, air: 220°C)

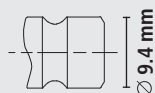
Special Brass: high resistant special
brass

Temperature Regulation Quick Connect Couplings

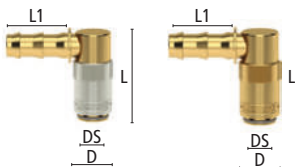
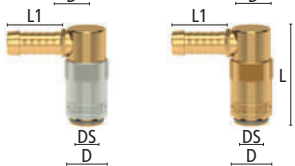
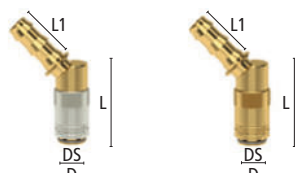
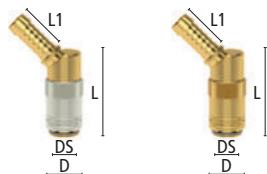
Series ESDM Plug size 9.4 mm

DN 6

Plug Profile (original size)



International Plug Profile



- One-hand quick connect couplings with small dimensions made of Brass MS 58
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses
- All couplings available with security lock, just add "S" on Type No. (Surcharge: 2.19 Euro gross)

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	6	ISO 228 / DIN 13	One-hand	Single/double/straight-through	Tempered media	Coupl. 5 / Plug 10

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	51	18	22.5	9.4	5	40	ESDM 6 TL	ESDM 6 TLAB
Hose i.D. 9	51	18	22.5	9.4	6	45	ESDM 9 TL	
Hose i.D. 9	51	18	22.5	9.4	6	45		ESDM 9 TLAB
Hose i.D. 13	53	18	25	9.4	6	54	ESDM 13 TL	ESDM 13 TLAB

Couplings with straight quick-fit hose stem without/with valve

Hose connect.	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	56.5	18	28	9.4	5	40	ESDM 6 T	ESDM 6 TAB
Hose i.D. 10	56.5	18	28	9.4	6	46	ESDM 10 T	ESDM 10 TAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	18	25.5	9.4	5	58	ESDM 6 TL-45	ESDM 6 TL-45AB
Hose i.D. 9	40.5	18	25.5	9.4	6	62	ESDM 9 TL-45	ESDM 9 TL-45AB

Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	18	28	9.4	5	63	ESDM 6 T-45	ESDM 6 T-45AB
Hose i.D. 10	40.5	18	28	9.4	6	67	ESDM 10 T-45	ESDM 10 T-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	18	25.5	9.4	5	58	ESDM 6 TL-90	ESDM 6 TL-90AB
Hose i.D. 9	40.5	18	25.5	9.4	6	62	ESDM 9 TL-90	ESDM 9 TL-90AB

Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	18	28	9.4	5	63	ESDM 6 T-90	ESDM 6 T-90AB
Hose i.D. 10	40.5	18	28	9.4	6	67	ESDM 10 T-90	ESDM 10 T-90AB

Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 6	14	blue	50	0.3	AR-BL 6
For Hose i.D. 6	14	red	50	0.3	AR-RO 6
For Hose i.D. 6	14	yellow	50	0.3	AR-GE 6
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10

To put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses – (© page 194 - 197)

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!

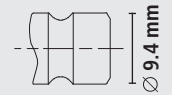
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Temperature Regulation Quick Connect Couplings

Plug size 9.4 mm **Series ESDM**

DN 6

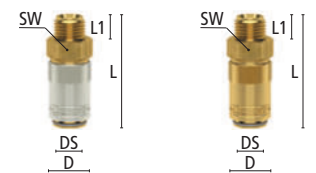
Plug Profile (original size)



Couplings with straight male thread without/with valve (inner cone DIN 3863)

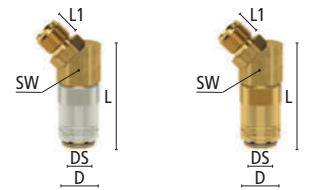
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	46	17	18	9	9.4	6	60	ESDM 14 A	ESDM 14 AAB
G 3/8 m	46	19	18	9	9.4	6	70	ESDM 38 A	ESDM 38 AAB
M 10x1 m	44	17	18	7	9.4	6	60	ESDM 101 A	ESDM 101 AAB
M 14x1.5 m	46	17	18	9	9.4	6	60	ESDM 1415 A	ESDM 1415 AAB
M 16x1.5 m	46	19	18	9	9.4	6	70	ESDM 1615 A	ESDM 1615 AAB
G 1/4 m	50	17	18	13	9.4	6	61	ESDM 14 AL	ESDM 14 ALAB
G 3/8 m	50	19	18	13	9.4	6	75	ESDM 38 AL	ESDM 38 ALAB
M 14x1.5 m	50	17	18	13	9.4	6	65	ESDM 1415 AL	ESDM 1415 ALAB

Version AL with longer male thread mainly used for assembly with Ermeto fittings



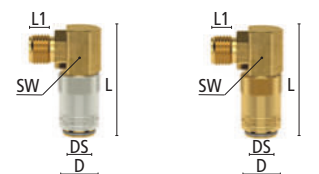
Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	18	9	9.4	6	65	ESDM 14 A-45	ESDM 14 A-45AB
G 3/8 m	45	19	18	9	9.4	6	75	ESDM 38 A-45	ESDM 38 A-45AB
M 10x1 m	45	17	18	7	9.4	6	65	ESDM 101 A-45	ESDM 101 A-45AB
M 14x1.5 m	45	17	18	9	9.4	6	65	ESDM 1415 A-45	ESDM 1415A-45AB
M 16x1.5 m	45	19	18	9	9.4	6	75	ESDM 1615 A-45	ESDM 1615A-45AB



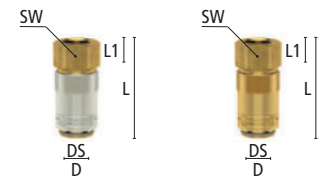
Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	18	9	9.4	6	75	ESDM 14 A-90	ESDM 14 A-90AB
G 3/8 m	45	19	18	9	9.4	6	85	ESDM 38 A-90	ESDM 38 A-90AB
M 10x1 m	45	17	18	7	9.4	6	75	ESDM 101 A-90	ESDM 101 A-90AB
M 14x1.5 m	45	17	18	9	9.4	6	75	ESDM 1415 A-90	ESDM 1415A-90AB
M 16x1.5 m	45	19	18	9	9.4	6	85	ESDM 1615 A-90	ESDM 1615A-90AB



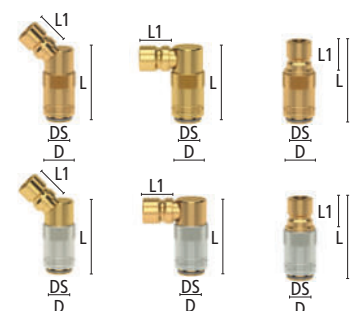
Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	40	17	18	9	9.4	6	50	ESDM 14 I	ESDM 14 IAB
G 3/8 f	40	21	18	9	9.4	6	54	ESDM 38 I	ESDM 38 IAB
M 10x1 f	40	17	18	9	9.4	6	50	ESDM 101 I	ESDM 101 IAB
M 14x1.5 f	40	17	18	9	9.4	6	50	ESDM 1415 I	ESDM 1415 IAB



Couplings with plug DN 9 - ESDM and ESDM-ESHM System Adapters

Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 6 - DN 9	50.5	18	15.5	9.4	6	straight	75	ESDMK-ESDS	ESDMK-ESDS-AB
DN 6 - DN 9	45	18	15.5	9.4	6	45°	80	ESDMK-ESDS-45	ESDMK-ESDS-45AB
DN 6 - DN 9	45	18	15.5	9.4	6	90°	80	ESDMK-ESDS-90	ESDMK-ESDS-90AB
DN 6 - DN 6	50	18	14	9.4	6	straight	70	ESDMK-ESHMS	ESDMK-ESHMS-AB
DN 6 - DN 9	50	18	14	9.4	6	straight	75	ESDMK-ESHS	ESDMK-ESHS-AB

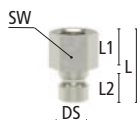
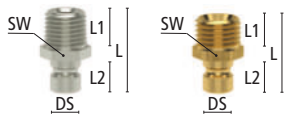


Temperature Regulation Quick Connect Couplings

Series ESDM Plug size 9.4 mm

DN 6

Plug Profile (original size)



Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 8/6	41	18	9.4	6	63	ESDM 8-U	ESDM 8-UAB

Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 8/6	250	8	6	45	TR 250-8
Tube 8/6	500	8	6	93	TR 500-8

Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	30	18	9.4	37	ESDM-B

Plugs with straight standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	39.5	12	22.5	10.5	9.4	5	9	ESDM 6 SL
Hose i.D. 9	39.5	12	22.5	10.5	9.4	6	13	ESDM 9 SL
Hose i.D. 13	39.5	15	22.5	10.5	9.4	6	17	ESDM 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	22	11	8	10.5	9.4	6	10	ESDM 18 NA*
R 1/8 m	25	11	11	10.5	9.4	6	12	ESDM 18 NAR*
G 1/4 m	23	14	9	10.5	9.4	6	14	ESDM 14 NA*
R 1/4 m	26	14	12	10.5	9.4	6	16	ESDM 14 NAR*
G 3/8 m	23.5	17	9	10.5	9.4	6	18	ESDM 38 NA*
M 8x0.75 m	20.5	11	7	10.5	9.4	4.5	9	ESDM 875 NA
M 10x1 m	22	11	7	10.5	9.4	6	8	ESDM 101 NA
M 14x1.5 m	23	14	9	10.5	9.4	6	10	ESDM 1415 NA
M 16x1.5 m	23	17	9	10.5	9.4	6	18	ESDM 1615 NA

Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 f	22	14	9	10.5	9.4	6	15	ESDM 18 NI*
G 1/4 f	23	17	9	10.5	9.4	6	19	ESDM 14 NI*
G 3/8 f	23	19	10	10.5	9.4	6	25	ESDM 38 NI*

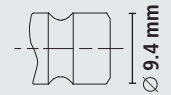
*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Plug size 9.4 mm **Series ESDM**

DN 6

Plug Profile (original size)



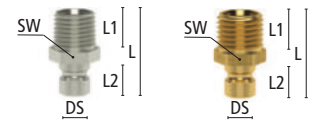
Plugs with 90° male thread without valve (metrical thread DIN 158/ R-thread DIN EN 10226)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/8 m	27	15	9	10.5	9.4	6	35	ESDM 18 NA-90*
R 1/4 m	29	15	11	10.5	9.4	6	35	ESDM 14 NA-90*
R 3/8 m	30	17	12	10.5	9.4	6	35	ESDM 38 NA-90*
M 8x0.75 m	27	15	9	10.5	9.4	4.5	38	ESDM 875 NA-90
M 10x1 m	27	15	9	10.5	9.4	6	38	ESDM 101 NA-90
M 14x1.5 m	29	15	11	10.5	9.4	6	40	ESDM 1415 NA-90



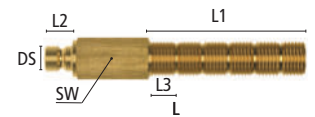
Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	25.5	14	11	10.5	9.4	6	14	ESDM 14 NAAB*
R 1/4 m	28.5	14	14	10.5	9.4	6	18	ESDM 14 NARAB*
G 3/8 m	26.5	17	11	10.5	9.4	6	22	ESDM 38 NAAB*
M 14x1.5 m	25.5	15	11	10.5	9.4	6	15	ESDM 1415 NAAB



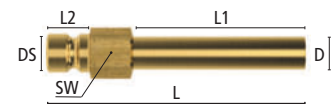
Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/8 m	100	11	60	10.5	10	9.4	6	36	ESDM 18-60 NA
G 1/4 m	100	14	60	10.5	10	9.4	6	58	ESDM 14-60 NA
G 3/8 m	100	17	60	10.5	10	9.4	6	90	ESDM 38-60 NA
M 10x1 m	100	11	60	10.5	10	9.4	6	36	ESDM 101-60 NA
M 14x1.5 m	100	14	60	10.5	10	9.4	6	61	ESDM 1415-60 NA



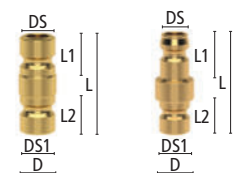
Plug Tubes for countersunk mould threads (for length cutting as needed)

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	11	42	10.5	9.4	6	14	ESDM 68 R
8	100	11	79	10.5	9.4	6	20	ESDM 100 R
10	63	11	42	10.5	9.4	6	20	ESDM 63 R10
10	100	11	79	10.5	9.4	6	38	ESDM 100 R10
10	120	11	102	10.5	9.4	6	49	ESDM 120 R
10	240	11	222	10.5	9.4	6	102	ESDM 240 R
10	360	11	342	10.5	9.4	6	154	ESDM 360 R



Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 6	27	10	10.5	10.5	9.4	9.4	6	14	ESDM-ESDM
DN 9 – DN 6	31	14	15.5	10.5	9.4	13.5	6	18	ESD-ESDM
DN 6 – DN 6	31	12	10.5	14	9	9.4	6	14	ESDM-ESHM
DN 6 – DN 9	31	14	10.5	14	13	9.4	6	18	ESDM-ESH



Protection cap (plastic) for plug profile ESDM

100

ESDM-K

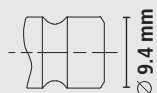
*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Series ESDMT Plug size 9.4 mm – with Automatic Locking Mechanism

DN 6

Plug Profile (original size)



International Plug Profile



- One-hand quick connect couplings with small dimensions and patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- To be coupled with plug series ESDM DN 6 (page 168)
- Versions with additional O-ring sealing at connection port to prevent leakage with high-temperature applications

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310 • Balls: Stainless steel 1.4034 • Seals: High-Performance FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +220°C*	6	ISO 228/ DIN 13	One-hand	Single/double/straight-thr.	Tempered media	5

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	60	18	22.5	9.4	6	55	ESDMT 9 TL	ESDMT 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	18	22.5	9.4	6	78	ESDMT 9 TL45	ESDMT 9 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	55	18	22.5	9.4	6	87	ESDMT 9 TL90	ESDMT 9 TL90AB

Couplings with straight male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	55.5	17	18	11	9.4	6	69	ESDMT14AL	ESDMT14ALAB
M 14x1.5 m	55.5	17	18	11	9.4	6	70	ESDMT1415AL	ESDMT1415ALAB

Couplings with 45° male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	51	17	18	11	9.4	6	81	ESDMT14AL45	ESDMT14AL45AB
M 14x1.5 m	51	17	18	11	9.4	6	82	ESDMT1415AL45	ESDMT1415AL45AB

Couplings with 90° male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	55	17	18	11	9.4	6	90	ESDMT14AL90	ESDMT14AL90AB
M 14x1.5 m	55	17	18	11	9.4	6	91	ESDMT1415AL90	ESDMT1415AL90AB

Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

Temperature Regulation Quick Connect Couplings

Plug size 9.4 mm **Series ESDMF**

- Quick connect couplings with small dimensions made of brass MS 58, flat-sealing with two-hand operation
- **For temperature regulation applications with hot or cold water as well as tempered oil**
- Optional with straight-through, single or double shut-off valves
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM (flat-sealing)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	6	ISO 228 / DIN 13	Two-hands	Single/double/straight-through	Tempered media	Coupl. 5 / Plug 10

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	51	17	22.5	9.4	5	40	ESDMF 6 TL	ESDMF 6 TLAB
Hose i.D. 9	51	17	22.5	9.4	6	45	ESDMF 9 TL	ESDMF 9 TLAB
Hose i.D. 13	53	17	25	9.4	6	54	ESDMF 13 TL	ESDMF 13 TLAB

NEW! Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	57.5	17	28	9.4	5	42	ESDMF 6 T	ESDMF 6 TAB
Hose i.D. 10	57.5	17	28	9.4	7	49	ESDMF 10 T	ESDMF 10 TAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	41.5	17	25.5	9.4	5	58	ESDMF 6 TL-45	ESDMF 6 TL-45AB
Hose i.D. 9	41.5	17	25.5	9.4	6	62	ESDMF 9 TL-45	ESDMF 9 TL-45AB

NEW! Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	41.5	17	28	9.4	5	62	ESDMF 6 T-45	ESDMF 6 T-45AB
Hose i.D. 10	41.5	17	28	9.4	7	66	ESDMF 10 T-45	ESDMF 10 T-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	41.5	17	25.5	9.4	5	58	ESDMF 6 TL-90	ESDMF 6 TL-90AB
Hose i.D. 9	41.5	17	25.5	9.4	6	62	ESDMF 9 TL-90	ESDMF 9 TL-90AB

NEW! Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	41.5	17	28	9.4	5	62	ESDMF 6 T-90	ESDMF 6 T-90AB
Hose i.D. 10	41.5	17	28	9.4	7	66	ESDMF 10 T-90	ESDMF 10 T-90AB

Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 6	14	blue	50	0.3	AR-BL 6
For Hose i.D. 6	14	red	50	0.3	AR-RO 6
For Hose i.D. 6	14	yellow	50	0.3	AR-GE 6
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10

To put on coupling or plug stem before assembling the quick-fit hose

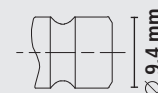
Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses – (© page 194 - 197)

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!

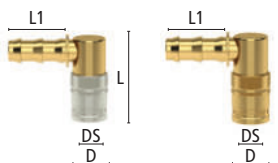
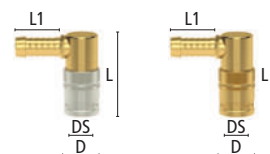
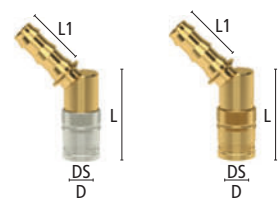
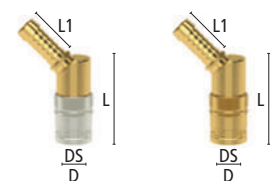
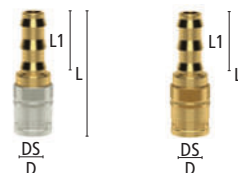
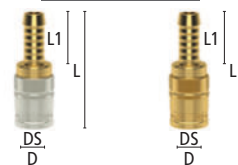
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

DN 6

Plug Profile (original size)



International Plug Profile

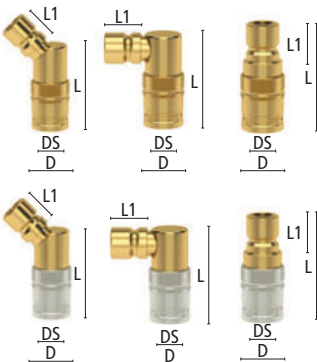
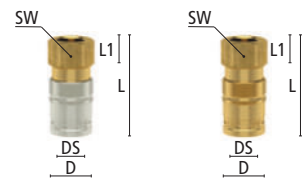
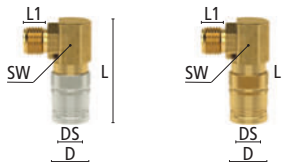
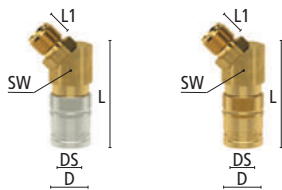
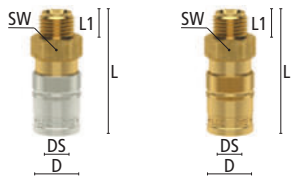


Temperature Regulation Quick Connect Couplings

Series ESDMF Plug size 9.4 mm

DN 6

Plug Profile (original size)



Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	46	17	17	13	9.4	6	60	ESDMF 14 A	ESDMF 14 AAB
G 3/8 m	46	19	17	13	9.4	6	70	ESDMF 38 A	ESDMF 38 AAB
M 10x1 m	44	17	17	7	9.4	6	60	ESDMF 101 A	ESDMF 101 AAB
M 14x1.5 m	46	17	17	13	9.4	6	60	ESDMF 1415 A	ESDMF 1415 AAB
M 16x1.5 m	46	19	17	13	9.4	6	70	ESDMF 1615 A	ESDMF 1615 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	65	ESDMF 14 A-45	ESDMF 14 A-45AB
G 3/8 m	45	19	17	9	9.4	6	75	ESDMF 38 A-45	ESDMF 38 A-45AB
M 10x1 m	45	17	17	7	9.4	6	65	ESDMF 101 A-45	ESDMF 101A-45AB
M 14x1.5 m	45	17	17	9	9.4	6	65	ESDMF 1415 A-45	ESDMF1415A-45AB
M 16x1.5 m	45	19	17	9	9.4	6	75	ESDMF 1615 A-45	ESDMF1615A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	75	ESDMF 14 A-90	ESDMF 14 A-90AB
G 3/8 m	45	19	17	9	9.4	6	85	ESDMF 38 A-90	ESDMF 38 A-90AB
M 10x1 m	45	17	17	7	9.4	6	75	ESDMF 101 A-90	ESDMF 101A-90AB
M 14x1.5 m	45	17	17	9	9.4	6	75	ESDMF 1415 A-90	ESDMF1415A-90AB
M 16x1.5 m	45	19	17	9	9.4	6	85	ESDMF 1615 A-90	ESDMF1615A-90AB

Couplings with straight female thread without/with valve

Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	40	17	17	9	9.4	6	50	ESDMF 14 I	ESDMF 14 IAB
G 3/8 f	40	21	17	9	9.4	6	54	ESDMF 38 I	ESDMF 38 IAB
M 10x1 f	40	17	17	9	9.4	6	50	ESDMF 101 I	ESDMF 101 IAB
M 14x1.5 f	40	17	17	9	9.4	6	50	ESDMF 1415 I	ESDMF 1415 IAB

Couplings with plug DN 6 - ESDMF and ESDMF-ESHM-System Adapters

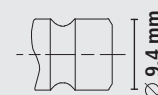
Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 6 - DN 9	50.5	17	15.5	9.4	6	straight	75	ESDMFK-ESDS	ESDMFK-ESDS-AB
DN 6 - DN 9	45	17	15.5	9.4	6	45°	80	ESDMFK-ESDS-45	ESDMFK-ESDS45AB
DN 6 - DN 9	45	17	15.5	9.4	6	90°	80	ESDMFK-ESDS-90	ESDMFK-ESDS90AB
DN 6 - DN 6	50	17	14	9.4	6	straight	70	ESDMFK-ESHMS	ESDMFK-ESHMS-AB
DN 6 - DN 9	50	17	14	9.4	6	straight	75	ESDMFK-ESHS	ESDMFK-ESHS-AB

Temperature Regulation Quick Connect Couplings

Plug size 9.4 mm **Series ESDMF**

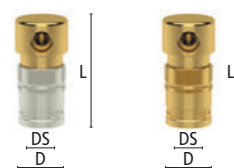
DN 6

Plug Profile (original size)



Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 6/8	42	17	9.4	6	63	ESDMF 8-U	ESDMF 8-UAB



Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 8/6	250	8	6	45	TR 250-8
Tube 8/6	500	8	6	93	TR 500-8



Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	30	17	9.4	37	ESDMF-B



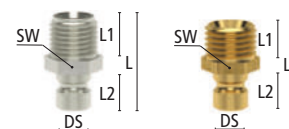
Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	39.5	12	22.5	10.5	9.4	5	9	ESDM 6 SL
Hose i.D. 9	39.5	12	22.5	10.5	9.4	6	13	ESDM 9 SL
Hose i.D. 13	39.5	15	22.5	10.5	9.4	6	17	ESDM 13 SL



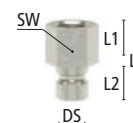
Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	22	11	8	10.5	9.4	6	10	ESDM 18 NA*
R 1/8 m	25	11	11	10.5	9.4	6	12	ESDM 18 NAR*
G 1/4 m	23	14	9	10.5	9.4	6	14	ESDM 14 NA*
R 1/4 m	26	14	12	10.5	9.4	6	16	ESDM 14 NAR*
G 3/8 m	23.5	17	9	10.5	9.4	6	18	ESDM 38 NA*
M 8x0.75 m	20.5	11	7	10.5	9.4	4.5	9	ESDM 875 NA
M 10x1 m	22	11	7	10.5	9.4	6	8	ESDM 101 NA
M 14x1.5 m	23	14	9	10.5	9.4	6	10	ESDM 1415 NA
M 16x1.5 m	23	17	9	10.5	9.4	6	18	ESDM 1615 NA



Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 f	22	14	9	10.5	9.4	6	15	ESDM 18 NI*
G 1/4 f	23	17	9	10.5	9.4	6	19	ESDM 14 NI*
G 3/8 f	23	19	10	10.5	9.4	6	25	ESDM 38 NI*



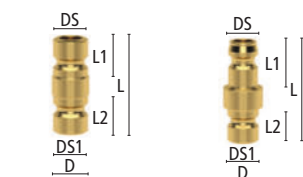
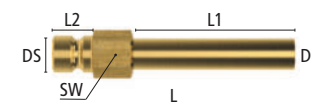
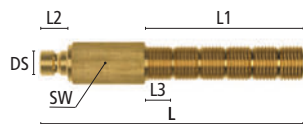
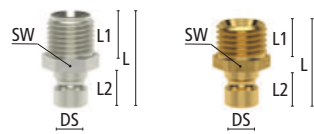
*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Series ESDMF Plug size 9.4 mm

DN 6

Plug Profile (original size)



Plugs with 90° male thread without valve (metrical thread DIN 158/ R-thread DIN EN 10226)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/8 m	27	15	9	10.5	9.4	6	35	ESDM 18 NA-90*
R 1/4 m	29	15	11	10.5	9.4	6	35	ESDM 14 NA-90*
R 3/8 m	30	17	12	10.5	9.4	6	35	ESDM 38 NA-90*
M 8x0.75 m	27	15	9	10.5	9.4	4.5	38	ESDM 875 NA-90
M 10x1 m	27	15	9	10.5	9.4	6	38	ESDM 101 NA-90
M 14x1.5 m	29	15	11	10.5	9.4	6	40	ESDM 1415 NA-90

Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	25.5	14	11	10.5	9.4	6	14	ESDM 14 NAAB*
R 1/4 m	28.5	14	14	10.5	9.4	6	18	ESDM 14 NARAB*
G 3/8 m	26.5	17	11	10.5	9.4	6	22	ESDM 38 NAAB*
M 14x1.5 m	25.5	15	11	10.5	9.4	6	15	ESDM 1415 NAAB

Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/8 m	100	11	60	10.5	9	9.4	6	36	ESDM 18-60 NA
G 1/4 m	100	14	60	10.5	9	9.4	6	58	ESDM 14-60 NA
G 3/8 m	100	17	60	10.5	9	9.4	6	90	ESDM 38-60 NA
M 10x1 m	100	11	60	10.5	9	9.4	6	36	ESDM 101-60 NA
M 14x1.5 m	100	14	60	10.5	9	9.4	6	61	ESDM 1415-60 NA

Plug Tubes for countersunk mould threads (for length cutting as needed)

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	11	42	10.5	9.4	6	14	ESDM 68 R
8	100	11	79	10.5	9.4	6	20	ESDM 100 R
10	63	11	42	10.5	9.4	6	20	ESDM 63 R10
10	100	11	79	10.5	9.4	6	38	ESDM 100 R10
10	120	11	102	10.5	9.4	6	49	ESDM 120 R
10	240	11	222	10.5	9.4	6	102	ESDM 240 R
10	360	11	342	10.5	9.4	6	154	ESDM 360 R

Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 6	27	10	10.5	10.5	9.4	9.4	6	14	ESDM-ESDM
DN 9 – DN 6	31	14	15.5	10.5	9.4	13.5	6	18	ESD-ESDM
DN 6 – DN 6	31	12	10.5	14	9	9.4	6	14	ESDM-ESHM
DN 6 – DN 9	31	14	10.5	14	13	9.4	6	18	ESDM-ESH

Protection cap (plastic) for plug profile ESDM

100

ESDM-K

*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Plug size 13.5 mm **Series ESD**

- One-hand quick connect couplings made of brass MS 58
- **For temperature regulation applications with hot or cold water as well as tempered oil**
- Optional with straight-through, single or double shut-off valves
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses
- All couplings available with security lock with a surcharge, just add "S" on Type No. (Surcharge: 2.19 Euro gross)

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	9	ISO 228 / DIN 13	One-hand	Single/double/straight-through	Tempered media	Coupl. 5 / Plug 10

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61.5	24	25	13.5	7	72	ESD 9 TL	ESD 9 TLAB
Hose i.D. 13	61.5	24	25	13.5	9	81	ESD 13 TL	
Hose i.D. 13	61.5	24	25	13.5	9	81		ESD 13 TLAB

NEW! Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	64.5	24	28	13.5	7	88	ESD 10 T	ESD 10 TAB
Hose i.D. 13	64.5	24	28	13.5	9	90	ESD 13 T	ESD 13 TAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	24	30	13.5	7	103	ESD 9 TL-45	ESD 9 TL-45AB
Hose i.D. 13	51	24	30	13.5	9	109	ESD 13 TL-45	ESD 13 TL-45AB

NEW! Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	51	24	28	13.5	7	112	ESD 10 T-45	ESD 10 T-45AB
Hose i.D. 13	51	24	28	13.5	9	118	ESD 13 T-45	ESD 13 T-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	24	30	13.5	7	105	ESD 9 TL-90	ESD 9 TL-90AB
Hose i.D. 13	51	24	30	13.5	9	111	ESD 13 TL-90	ESD 13 TL-90AB

NEW! Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	51	24	28	13.5	7	115	ESD 10 T-90	ESD 10 T-90AB
Hose i.D. 13	51	24	28	13.5	9	121	ESD 13 T-90	ESD 13 T-90AB

Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10
For Hose i.D. 13	20	blue	50	0.7	AR-BL 13
For Hose i.D. 13	20	red	50	0.7	AR-RO 13
For Hose i.D. 13	20	yellow	50	0.7	AR-GE 13

To put on coupling or plug stem before assembling the quick-fit hose

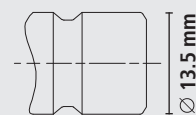
Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses – (© page 194 - 197)

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!

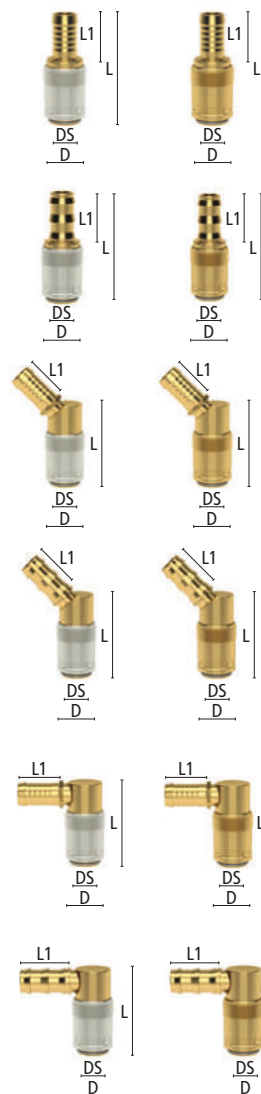
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

DN 9

Plug Profile (original size)



International Plug Profile

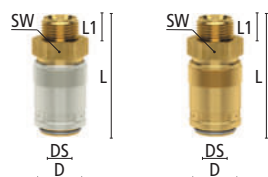
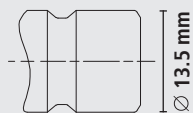


Temperature Regulation Quick Connect Couplings

Series ESD Plug size 13.5 mm

DN 9

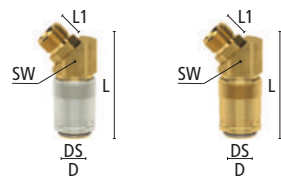
Plug Profile (original size)



Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	22	24	9	13.5	9	90	ESD 14 A	ESD 14 AAB
G 3/8 m	52	22	24	9	13.5	9	94	ESD 38 A	ESD 38 AAB
G 1/2 m	53	24	24	10	13.5	9	95	ESD 12 A	ESD 12 AAB
M 16x1.5 m	52	22	24	9	13.5	9	93	ESD 1615 A	ESD 1615 AAB
G 3/8 m	52	22	24	11	13.5	9	94	ESD 38 AL	ESD 38 ALAB
G 1/2 m	54.5	24	24	12	13.5	9	110	ESD 12 AL	ESD 12 ALAB
M 16x1.5 m	52	22	24	11	13.5	9	105	ESD 1615 AL	ESD 1615 ALAB

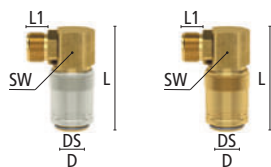
Version AL with long male thread mainly used for assembly with Ermeto fittings.



Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	24	9	13.5	9	114	ESD 38 A-45	ESD 38 A-45AB
M 16x1.5 m	54	22	24	9	13.5	9	114	ESD 1615 A-45	ESD 1615 A-45AB
G 3/8 m	54	22	24	11	13.5	9	125	ESD 38 AL-45	ESD 38 AL-45AB

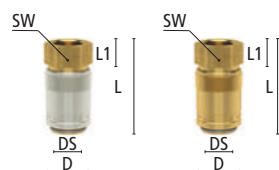
Version AL with long male thread mainly used for assembly with Ermeto fittings.



Couplings with 90° male thread without/with valve (inner cone DIN 3863)

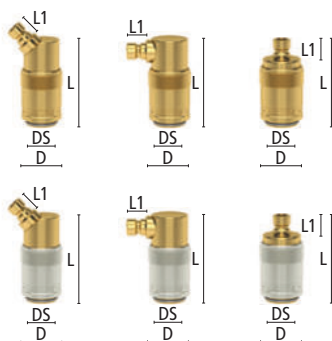
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	24	9	13.5	9	126	ESD 38 A-90	ESD 38 A-90AB
M 16x1.5 m	54	22	24	9	13.5	9	126	ESD 1615 A-90	ESD 1615 A-90AB
G 3/8 m	54	22	24	11	13.5	9	125	ESD 38 AL-90	ESD 38 AL-90AB

Version AL with long male thread mainly used for assembly with Ermeto fittings.



Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	24	9	13.5	9	75	ESD 14 I	ESD 14 IAB
G 3/8 f	46	22	24	9	13.5	9	84	ESD 38 I	ESD 38 IAB
G 1/2 f	49	24	24	12	13.5	9	110	ESD 12 I	ESD 12 IAB



Couplings with plug DN 6 - ESHM - System Adapter and ESH-ESD System Adapter

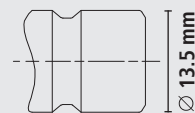
Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 9 - DN 6	48	24	10.5	13.5	6	straight	85	ESDK-ESDMS	ESDK-ESDMS-AB
DN 9 - DN 6	54	24	10.5	13.5	6	45°	100	ESDK-ESDMS-45	ESDK-ESDMS-45AB
DN 9 - DN 6	54	24	10.5	13.5	6	90°	100	ESDK-ESDMS-90	ESDK-ESDMS-90AB
DN 9 - DN 6	51	24	14	13.5	6	straight	85	ESDK-ESHMS	ESDK-ESHMS-AB
DN 9 - DN 9	51	24	14	13.5	9	straight	100	ESDK-ESHS	ESDK-ESHS-AB

Temperature Regulation Quick Connect Couplings

Plug size 13.5 mm **Series ESD**

DN 9

Plug Profile (original size)



Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 10/8	53	24	13.5	8	118	ESD 10-U	ESD 10-UAB



Tube (chamfered) for diversion coupling (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 10/8	250	10	8	60	TR 250-10
Tube 10/8	500	10	8	120	TR 500-10



Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	37	24	13.5	67	ESD-B



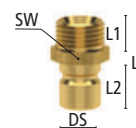
Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	41	14.5	22.5	15.5	13.5	5	20	ESD 6 SL
Hose i.D. 9	41	14.5	22.5	15.5	13.5	7	23	ESD 9 SL
Hose i.D. 13	43.5	16	25	15.5	13.5	9	25	ESD 13 SL



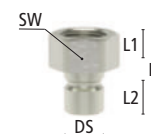
Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	27	15	7	15.5	13.5	6	16	ESD 18 NA*
G 1/4 m	29	15	9	15.5	13.5	9	17	ESD 14 NA*
R 1/4 m	32	15	12	15.5	13.5	9	21	ESD 14 NAR*
G 3/8 m	29	17	9	15.5	13.5	9	22	ESD 38 NA*
R 3/8 m	32	17	12	15.5	13.5	9	26	ESD 38 NAR*
G 1/2 m	32	22	12	15.5	13.5	9	42	ESD 12 NA*
G 3/4 m	36.5	27	16	15.5	13.5	9	77	ESD 34 NA*
M 10x1 m	27	15	7	15.5	13.5	6.5	14	ESD 101 NA
M 14x1.5 m	29	15	9	15.5	13.5	9	16	ESD 1415 NA
M 16x1.5 m	29	17	9	15.5	13.5	9	20	ESD 1615 NA



Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 f	27	17	9	15.5	13.5	9	21	ESD 14 NI*
G 3/8 f	27.5	22	10	15.5	13.5	9	32	ESD 38 NI*
G 1/2 f	29.5	24	12	15.5	13.5	9	55	ESD 12 NI*



Plugs with 90° male thread without valve (metrical thread DIN 158/ R-thread DIN EN 10226)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/4 m	35.5	17	11	15.5	13.5	9	45	ESD 14 NA-90*
R 3/8 m	35.5	17	12	15.5	13.5	9	45	ESD 38 NA-90*
M 14x1.5 m	35.5	17	11	15.5	13.5	9	47	ESD 1415 NA-90



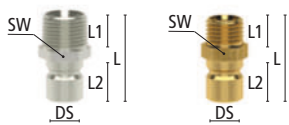
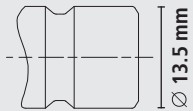
*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Series ESD Plug size 13.5 mm

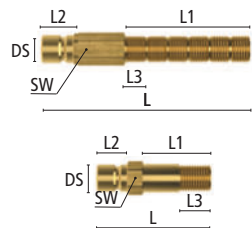
DN 9

Plug Profile (original size)



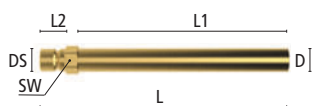
Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	9.5	15.5	13.5	6	24	ESD 14 NAAB*
G 3/8 m	31	17	10.5	15.5	13.5	9	28	ESD 38 NAAB*
R 3/8 m	34	17	13.5	15.5	13.5	9	32	ESD 38 NARAB*
M 14x1.5 m	30	15	9.5	15.5	13.5	6	26	ESD 1415 NAAB
M 16x1.5 m	31	17	10.5	15.5	13.5	9	28	ESD 1615 NAAB



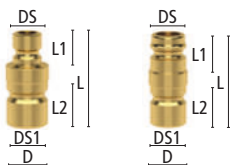
Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/4 m	100	14	60	15.5	10	13.5	9	60	ESD 14-60 NA
G 1/4 m	57	15	34	15.5	16	13.5	9	38	ESD 14 NAL18
G 1/4 m	110	15	87	15.5	16	13.5	9	75	ESD 14 NAL71
G 3/8 m	100	17	60	15.5	10	13.5	9	91	ESD 38-60 NA
M 14x1.5 m	100	14	60	15.5	10	13.5	9	55	ESD 1415-60 NA
M 16x1.5 m	100	17	60	15.5	10	13.5	9	93	ESD 1615-60 NA



Plug Tubes for countersunk mould threads (for length cutting as needed)

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	15.5	13.5	9	114	ESD 150 R
14	300	15	277	15.5	13.5	9	230	ESD 300 R
14	450	15	427	15.5	13.5	9	344	ESD 450 R



Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 9 - DN 6	31	14	15.5	10.5	13.5	9.4	6	18	ESD-ESDM
DN 9 - DN 9	34	14	15.5	15.5	13.5	13.5	9	24	ESD-ESD
DN 9 - DN 9	34	14	15.5	14	13.5	13	9	24	ESD-ESH

Protection cap (plastic) for plug profile ESD

100

ESD-K

*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Plug size 13.5 mm – with Automatic Locking Mechanism **Series ESDT**

- One-hand quick connect couplings with patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- **For temperature regulation applications with hot or cold water as well as tempered oil**
- Optional with straight-through, single or double shut-off valves
- To be coupled with plug series ESD DN 9 (page 177)
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Plug: Brass MS 58 plain/ nickel-plated
- Balls: Stainless steel 1.4034
- Springs, Retaining ring: Stainless steel 1.4310
- Seals: High-Performance FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +220°C*	9	ISO 288/ DIN 13	One-hand	Single/double/straight-through	Tempered media	5

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	64.5	24	25	13.5	9	94	ESDT 13 TL	ESDT 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	57	24	25	13.5	9	147	ESDT 13 TL45	ESDT 13 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	57	24	25	13.5	9	149	ESDT 13 TL90	ESDT 13 TL90AB

Couplings with straight male long thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	57.5	22	24	12.5	13.5	9	108	ESDT38AL	ESDT38ALAB
M 16x1.5 m	57.5	22	24	12.5	13.5	9	107	ESDT1615AL	ESDT1615ALAB

Couplings with 45° male long thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	57	22	24	12.5	13.5	9	144	ESDT38AL45	ESDT38AL45AB
M 16x1.5 m	57	22	24	12.5	13.5	9	140	ESDT1615AL45	ESDT1615AL45AB

Couplings with 90° male long thread without/with valve (inner cone DIN 3863)

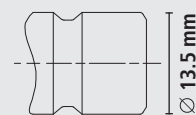
Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	57	22	24	12.5	13.5	9	146	ESDT38AL90	ESDT38AL90AB
M 16x1.5 m	57	22	24	12.5	13.5	9	143	ESDT1615AL90	ESDT1615AL90AB

Other types / sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

DN 9

Plug Profile (original size)



International Plug Profile



Temp[®] Secure
by LUDECKE

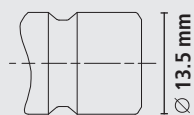


Temperature Regulation Quick Connect Couplings

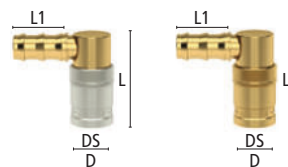
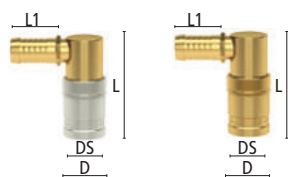
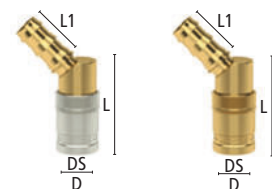
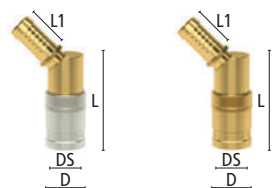
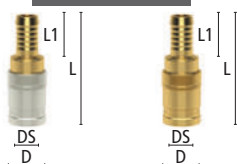
Series ESDF Plug size 13.5 mm

DN 9

Plug Profile (original size)



International Plug Profile



- Quick connect couplings made of brass MS 58, flat-sealing with two-hand operation
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional available with straight-through, single or double shut-off valves
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses

Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM (flat-sealing)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	9	ISO 228 / DIN 13	Two-hands	Single/double/straight-through	Tempered media	Coupl. 5 / Plug 10

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61.5	22	25	13.5	7	72	ESDF 9 TL	ESDF 9 TLAB
Hose i.D. 13	61.5	22	25	13.5	9	81	ESDF 13 TL	ESDF 13 TLAB

NEW! Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	69.5	22	28	13.5	7	97	ESDF 10 T	ESDF 10 TAB
Hose i.D. 13	69.5	22	28	13.5	9	104	ESDF 13 T	ESDF 13 TAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13.5	7	103	ESDF 9 TL-45	ESDF 9 TL-45AB
Hose i.D. 13	51	22	30	13.5	9	109	ESDF 13 TL-45	ESDF 13 TL-45AB

NEW! Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	55.5	22	28	13.5	7	128	ESDF 10 T-45	ESDF 10 T-45AB
Hose i.D. 13	55.5	22	28	13.5	9	134	ESDF 13 T-45	ESDF 13 T-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	55.5	22	30	13.5	7	105	ESDF 9 TL-90	ESDF 9 TL-90AB
Hose i.D. 13	55.5	22	30	13.5	9	111	ESDF 13 TL-90	ESDF 13 TL-90AB

NEW! Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	55.5	22	28	13.5	7	131	ESDF 10 T-90	ESDF 10 T-90AB
Hose i.D. 13	55.5	22	28	13.5	9	137	ESDF 13 T-90	ESDF 13 T-90AB

Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10
For Hose i.D. 13	20	blue	50	0.7	AR-BL 13
For Hose i.D. 13	20	red	50	0.7	AR-RO 13
For Hose i.D. 13	20	yellow	50	0.7	AR-GE 13

To put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 194 - 197)

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!

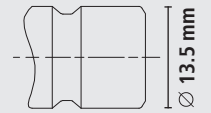
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Temperature Regulation Quick Connect Couplings

Plug size 13.5 mm **Series ESDF**

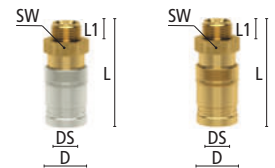
DN 9

Plug Profile (original size)



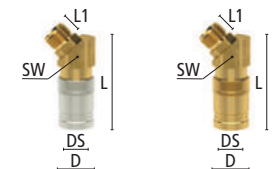
Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	22	22	9	13.5	9	90	ESDF 14 A	ESDF 14 AAB
G 3/8 m	52	22	22	11	13.5	9	94	ESDF 38 A	ESDF 38 AAB
G 1/2 m	53	24	22	12	13.5	9	95	ESDF 12 A	ESDF 12 AAB
M 16x1.5 m	52	22	22	11	13.5	9	93	ESDF 1615 A	ESDF 1615 AAB



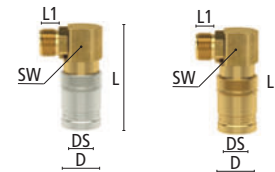
Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	22	11	13.5	9	114	ESDF 38 A-45	ESDF 38 A-45AB
M 16x1.5 m	54	22	22	11	13.5	9	114	ESDF 1615 A-45	ESDF 1615A-45AB



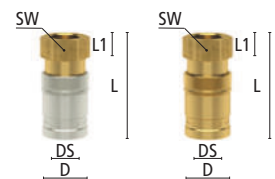
Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	22	11	13.5	9	126	ESDF 38 A-90	ESDF 38 A-90AB
M 16x1.5 m	54	22	22	11	13.5	9	126	ESDF 1615 A-90	ESDF 1615A-90AB



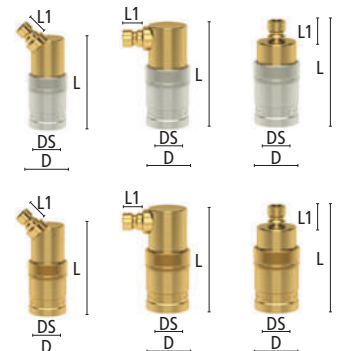
Couplings with straight female thread without/with valve

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	22	9	13.5	9	75	ESDF 14 I	ESDF 14 IAB
G 3/8 f	46	22	22	9	13.5	9	84	ESDF 38 I	ESDF 38 IAB
G 1/2 f	49	24	22	12	13.5	9	110	ESDF 12 I	ESDF 12 IAB



Couplings with plug DN 6 - ESHM - System Adapter and ESH-ESDF System Adapter

Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 9 - DN 6	48	22	10.5	13.5	6	straight	85	ESDFK-ESDMS	ESDFK-ESDMS-AB
DN 9 - DN 6	54	22	10.5	13.5	6	45°	100	ESDFK-ESDMS-45	ESDFK-ESDMS45AB
DN 9 - DN 6	54	22	10.5	13.5	6	90°	100	ESDFK-ESDMS-90	ESDFK-ESDMS90AB
DN 9 - DN 6	51	22	14	13.5	6	straight	85	ESDFK-ESHMS	ESDFK-ESHMS-AB
DN 9 - DN 9	51	22	14	13.5	9	straight	100	ESDFK-ESHS	ESDFK-ESHS-AB

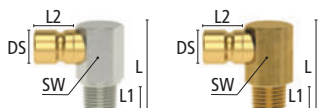
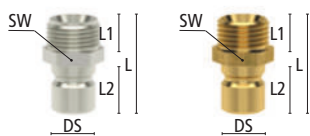
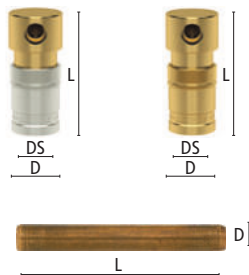
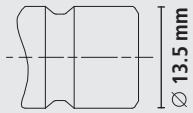


Temperature Regulation Quick Connect Couplings

Series ESDF Plug size 13.5 mm

DN 9

Plug Profile (original size)



Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 10/8	58	22	13.5	8	118	ESDF 10-U	ESDF 10-UAB

Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 10/8	250	10	8	60	TR 250-10
Tube 10/8	500	10	8	120	TR 500-10

Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	37	22	13.5	67	ESDF-B

Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	41	14.5	22.5	15.5	13.5	5	20	ESD 6 SL
Hose i.D. 9	41	14.5	22.5	15.5	13.5	7	23	ESD 9 SL
Hose i.D. 13	43.5	16	25	15.5	13.5	9	25	ESD 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	27	15	7	15.5	13.5	6	16	ESD 18 NA*
G 1/4 m	29	15	9	15.5	13.5	9	17	ESD 14 NA*
R 1/4 m	32	15	12	15.5	13.5	9	21	ESD 14 NAR*
G 3/8 m	29	17	9	15.5	13.5	9	22	ESD 38 NA*
R 3/8 m	32	17	12	15.5	13.5	9	26	ESD 38 NAR*
G 1/2 m	32	22	12	15.5	13.5	9	42	ESD 12 NA*
G 3/4 m	36.5	27	16	15.5	13.5	9	77	ESD 34 NA*
M 10x1 m	27	15	7	15.5	13.5	6.5	14	ESD 101 NA
M 14x1.5 m	29	15	9	15.5	13.5	9	16	ESD 1415 NA
M 16x1.5 m	29	17	9	15.5	13.5	9	20	ESD 1615 NA

Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 f	27	17	9	15.5	13.5	9	21	ESD 14 NI*
G 3/8 f	27.5	22	10	15.5	13.5	9	32	ESD 38 NI*
G 1/2 f	29.5	24	12	15.5	13.5	9	55	ESD 12 NI*

Plugs with 90° male thread without valve (metrical thread DIN 158/ R-Thread DIN EN 10226)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/4 m	35.5	17	11	15.5	13.5	9	45	ESD 14 NA-90*
M 14x1.5 m	35.5	17	11	15.5	13.5	9	47	ESD 1415 NA-90
R 3/8 m	35.5	17	12	15.5	13.5	9	45	ESD 38 NA-90*

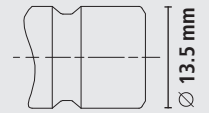
*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

Plug size 13.5 mm **Series ESDF**

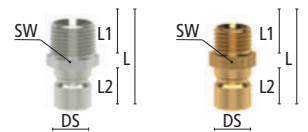
DN 9

Plug Profile (original size)



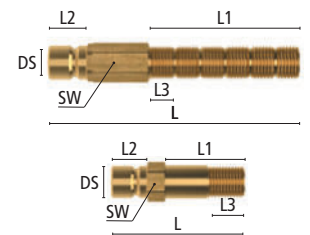
Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	9.5	15.5	13.5	6	24	ESD 14 NAAB*
G 3/8 m	31	17	10.5	15.5	13.5	9	28	ESD 38 NAAB*
R 3/8 m	34	17	13.5	15.5	13.5	9	32	ESD 38 NARAB*
M 14x1.5 m	30	15	9.5	15.5	13.5	6	26	ESD 1415 NAAB
M 16x1.5 m	31	17	10.5	15.5	13.5	9	28	ESD 1615 NAAB



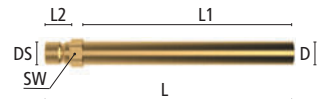
Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/4 m	100	14	60	15.5	10	13.5	9	60	ESD 14-60 NA
G 1/4 m	57	15	34	15.5	16	13.5	9	38	ESD 14 NAL18
G 1/4 m	110	15	87	15.5	16	13.5	9	75	ESD 14 NAL71
G 3/8 m	100	17	60	15.5	10	13.5	9	91	ESD 38-60 NA
M 14x1.5 m	100	14	60	15.5	10	13.5	9	55	ESD 1415-60 NA
M 16x1.5 m	100	17	60	15.5	10	13.5	9	93	ESD 1615-60 NA



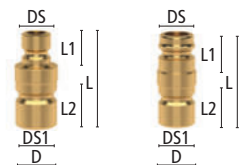
Plug Tubes for countersunk mould threads (for length cutting as needed)

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	15.5	13.5	9	114	ESD 150 R
14	300	15	277	15.5	13.5	9	230	ESD 300 R
14	450	15	427	15.5	13.5	9	344	ESD 450 R



Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 9 - DN 6	31	14	15.5	10.5	13.5	9.4	6	18	ESD-ESDM
DN 9 - DN 9	34	14	15.5	15.5	13.5	13.5	9	24	ESD-ESD
DN 9 - DN 9	34	14	15.5	14	13.5	13	9	24	ESD-ESH



Protection cap (plastic) for plug profile ESD

100

ESD-K

*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Accessories

SoftFlow Material Conveying Quick Connect Couplings



The **LUDECKE** SoftFlow Material Conveying Quick Connect Couplings are a high-quality quick coupling system for pressure or vacuum-conveying bulk materials or liquids (e.g. for vacuum-conveying granulate material in the plastics industry).

The SoftFlow products are easy to handle because of their quick coupling principle with ball shut-off and their light weight. Due to the use of stainless steel for the coupling body, they are very low-wearing.

**Soft
Flow**
by **LUDECKE**

Manifolds for Temperature Regulation Lines



The **LUDECKE** manifolds made of aluminium or stainless steel allow for a clean layout of temperature regulation lines leading to increased work and production safety. The manifold guarantees a central inflow and outflow to the temperature regulation tool and saves energy and hose lines.

Colour Coding



A red or blue anodized aluminium ring for the sleeve can be ordered to easily label and identify flow and return lines of the tempered circuit.

We offer these rings for the series ESHM, ESHME, ESH and ESHE. They are also individually available for self-assembly. To install, simply slide the ring on the coupling sleeve.

Screwings and Components



LUDECKE offers an extensive range of connecting fittings made of brass.

- Connection tubes
- Hose stems
- Connection nipples

Hose Clamps, Hose Clips and Ferrules



To fix hoses to fittings, different assembly methods can be used ranging from robust clamps to light clips to ferrules. The assembly method depends on the application, media, pressure or hose material. Criteria are: safety level of fixation, removability, easiness and devices needed for assembly as well as cleanliness and protection against injury.

- Double-Ear Hose Clips
- High-Performance Hose Clips made of Steel or Stainless Steel
- Ferrules for Low Pressure Hose Lines
- Hand-Operated Assembly Machine

SoftFlow Material Conveying Quick Connect Couplings

made of Stainless Steel 1.4305

DN 41

- High-quality quick coupling system for pressure or vacuum-conveying bulk material or liquids, eg. for vacuum-conveying granulate material in the plastics industry
- Low wearing due to coupling body made of stainless steel
- Coupling sleeve, plug and cap made of aluminium (hard coated)
- Full, straight-through passage without profile narrowing
- Light weight, easy to handle
- Quick coupling principle with ball shut-off for easy operation
- Easy manual replacement of sealing rings
- Perfectly adapted hose stems for PVC or polyurethane spiral hoses
- Plug and coupling for tube connection with double O-ring sealing and fixing with screw

Max. Working Pressure	Temperature	DN	Operation	Type of valve	Vacuum	Media	
PN 10 bar	-15° – +95° C	41	Two-hands	Straight-through	Vacuum	Plastic granulate	1



SoftFlow Coupling with hose stem

Hose connection	L	D	L1	DS	Passage	Weight	Type No.
Hose i.D. 38	82	65	45	49	34	340	GRK 38 T
Hose i.D. 40	82	65	45	49	36	340	GRK 40 T
Hose i.D. 45	82	65	45	49	41	340	GRK 45 T
Hose i.D. 50	82	65	45	49	41	360	GRK 50 T

For hose clips type HS/ HSE (© Page 194 - 195)



SoftFlow Vacuum Coupling for tube connection*

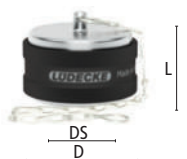
Connection	L	D	L1	DS	Passage	Weight	Type No.
Tube AD 38	70	65	30	49	34	480	GRK 38 R
Tube AD 40	70	65	30	49	36	480	GRK 40 R
Tube AD 45	70	65	30	49	41	520	GRK 45 R
Tube AD 50	70	65	30	49	41	580	GRK 50 R

*Attention: Only suitable for vacuum applications, sealing with O-ring, fixing with screw



SoftFlow Coupling with female thread

Thread connection	SW	L	D	L1	DS	Passage	Weight	Type No.
G 1 1/2 f	55	68	65	19	49	41	560	GRK 15 I
G 2 f	60	68	65	19	49	41	650	GRK 20 I



SoftFlow Cap Coupling with chain

L	D	DS	Chain Length	Weight	Type No.
48	68	49	170	320	GRK-V

Original Sealing Ring for coupling

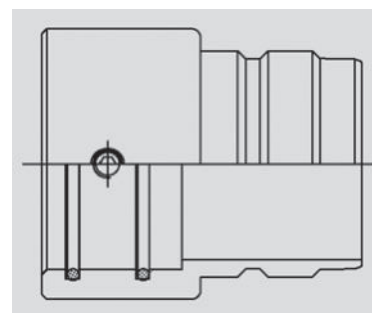
Type	Size	Material		Weight	Type No.
O-ring	45 x 5	NBR	10	6	GRK-D

Adapted hose stems for other hose dimensions/ types on request



Materials

- Sleeve: Aluminium (hard coated)
- Valve body, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4304
- Seals: NBR
- Screw: Stainless steel 1.4301
- Plug: Aluminium (hard coated)



SoftFlow Plug with hose stem

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 38	83	55	45	36	49	34	310	GRS 38 T
Hose i.D. 40	83	55	45	36	49	36	315	GRS 40 T
Hose i.D. 45	83	55	45	36	49	41	330	GRS 45 T
Hose i.D. 50	83	55	45	36	49	41	360	GRS 50 T

For hose clips type HS/ HSE (© Page 194 - 195)



SoftFlow Vacuum Plug for tube connection*

Connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Tube AD 38	68.5	58	30	36	49	34	360	GRS 38 R
Tube AD 40	68.5	58	30	36	49	36	370	GRS 40 R
Tube AD 45	68.5	58	30	36	49	41	385	GRS 45 R
Tube AD 50	68.5	58	30	36	49	41	420	GRS 50 R

*Attention: Only suitable for vacuum applications, sealing with O-ring, fixing with screw



SoftFlow Plug with female thread

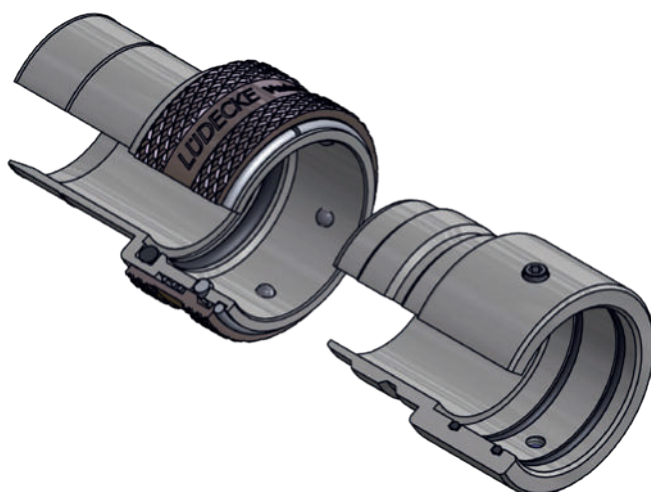
Thread connection	SW	L	D	L1	L2	DS	Passage	Weight	Type No.
G 1 1/2 f	55	65	59	19	36	49	41	350	GRS 15 I
G 2 f	60	65	59	19	36	49	41	380	GRS 20 I



SoftFlow Cap Plug with chain

L	D	L1	DS	Length chain	Weight	Type No.
60	58	36	49	170	195	GRS-V

Special types/versions, i.e. with bulkhead-screwing, plug or colour coding, and other sizes on request



Manifolds for Temperature Regulation Lines

made of Aluminium (Anodised) and Stainless steel 1.4401

- Manifolds made of blue and red anodised aluminium or stainless steel 1.4401, for a clean layout of inflow and outflow to the temperature regulation tool, can be mounted at the machine
- Increases the working and production safety with its clean layout of temperature regulation lines, saves energy and hose lines because of the central inflow of the temperature regulation media to the machine
- A central inflow and outflow to the temperature regulation tool, as many outlets as necessary to the mould tool thanks to the modular construction and different lengths
- Profile can be extended or combined as often as desired due to the bar connector system
- Stainless steel manifolds mainly for applications with aggressive media
- Lateral inlet thread G 3/4 f, top outlet thread G 1/4 f for coupling Series DN 6 and DN 9
- Other types/ versions on request

Materials:

- Manifolds: Aluminium anodised/ Stainless steel 1.4401
- Plain End Plug: Brass MS 58

Max. Working Pressure	Temperature	Thread	Media	
PN 15 bar	-20°C – +200°C	ISO 228	Tempered media	1

Manifolds made of Aluminium

G*	G1**	L	B	L1	L2	L3	L4	ØC	A	D	B1	Colour	Weight	Type No.
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	blue	500	VB 34144-190 B
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	red	500	VB 34144-190 R
2 x G 3/4 f	6 x G 1/4 f	266	43.5	151.6	30	41.5	57.2	4.5	41.3	38	31	blue	700	VB 34146-266 B
2 x G 3/4 f	6 x G 1/4 f	266	43.5	151.6	30	41.5	57.2	4.5	41.3	38	31	red	700	VB 34146-266 R
2 x G 3/4 f	8 x G 1/4 f	342	43.5	227.6	30	41.5	57.2	4.5	41.3	38	31	blue	900	VB 34148-342 B
2 x G 3/4 f	8 x G 1/4 f	342	43.5	227.6	30	41.5	57.2	4.5	41.3	38	31	red	900	VB 34148-342 R
2 x G 3/4 f	10 x G 1/4 f	418	43.5	303.6	30	41.5	57.2	4.5	41.3	38	31	blue	1100	VB 341410-418 B
2 x G 3/4 f	10 x G 1/4 f	418	43.5	303.6	30	41.5	57.2	4.5	41.3	38	31	red	1100	VB 341410-418 R

Manifolds made of Stainless Steel 1.4401

G*	G1**	L	B	L1	L2	L3	L4	ØC	A	D	B1	Weight	Type No.
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	1490	VBE 34144-190

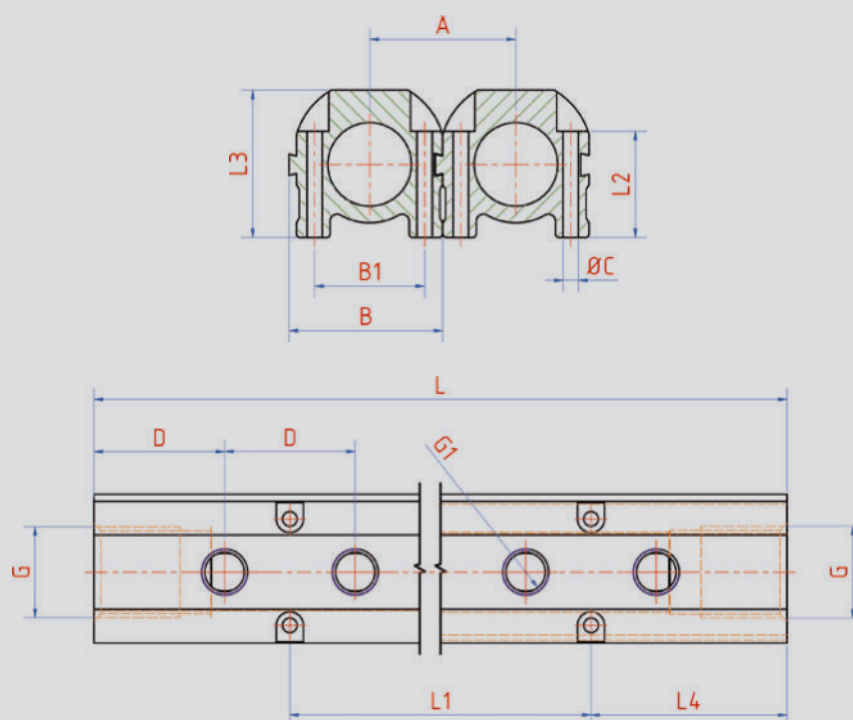
Plain End Plug for Manifolds

Thread	Inner Hexagon		Weight	Type No.
G 3/4 m	SW 12	5	80	VBS-34

*Thread connection on the side

**Thread connection on the top


3- and 4-way Manifolds made of brass (© page 124)



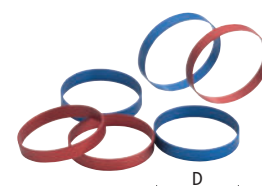
- Easy identification and distinction of inflow and outflow lines of the tempered circuit with red or blue anodised colour coding (for the series ESHM, ESHME, ESH, ESHE)
- The specified series can be ordered with aluminium ring on the sleeve. Minimum order quantity: 20 pieces/ type. When ordering, simply add "R" or "B" to a standard article number, e.g. ESH 13 TLR or ESHM 9 TLABB (Surcharge: 2.19 Euro gross/ piece)
- The rings are also available for self-assembly. To install, simply slide the ring on the coupling sleeve

Materials:

- Colour coding: Aluminium anodised

Marking rings for temperature regulation couplings					
for coupling type	D	Colour		Weight	Type No.
ESHME, ESHM (DN 6)	17	red	50	1	ESHM-CR-R
ESHME, ESHM (DN 6)	17	blue	50	1	ESHM-CR-B
ESHE, ESH (DN 9)	22	red	50	2	ESH-CR-R
ESHE, ESH (DN 9)	22	blue	50	2	ESH-CR-B

Other coupling series available on request.



Screwings and Components

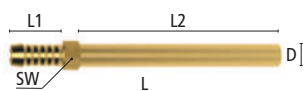
Brass MS 58 plain

- For temperature regulation applications with hot or cold water as well as tempered oil
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses

Materials:

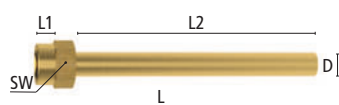
- Screwings, components: Brass MS 58 plain

Max. Working Pressure	Temperature	Thread	Inner Cone	Media
PN 15 bar	-20°C – +200°C	ISO 228 / DIN 13	DIN 3863	Tempered media



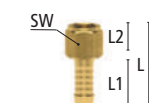
Standard hose stem tubes for counter-sunk mould threads (for length cutting as needed)

Hose connection	L	SW	D	L1	L2	Passage	Weight	Type No.
Hose i.D. 9	120	11	10	22.5	90.5	6	50	ESHM 120 RS
Hose i.D. 13	150	15	14	25	115	9	114	ESH 150 RS



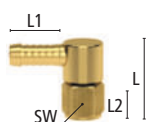
Female thread tubes for counter-sunk mould threads (for length cutting as needed)

Thread connection	L	SW	D	L1	L2	Passage	Weight	Type No.
M 14x1.5 f	120	17	10	12	104.5	6	60	ESHM 120 RI
M 16x1.5 f	150	22	14	12	134.5	9	130	ESH 150 RI



Standard hose stems with outer cone DIN 3863 and hexagon nut (straight, 45° and 90°)

Thread connect.	Hose con.	L	SW	L1	L2	Version	Passage	Weight	Type No.
G 1/4 f	Hose i.D. 9	40	17	23.5	10.5	straight	6	31	ST 149 MHL
G 1/4 f	Hose i.D. 9	52	17	22.5	10.5	45°	6	60	ST 149 MHL-45
G 1/4 f	Hose i.D. 9	34	17	22.5	10.5	90°	6	60	ST 149 MHL-90
G 3/8 f	Hose i.D. 13	41	22	27	10	straight	9	50	ST 3813 MHL
G 3/8 f	Hose i.D. 13	56	22	22.5	10	45°	9	80	ST 3813 MHL-45
G 3/8 f	Hose i.D. 13	40	22	22.5	10	90°	9	80	ST 3813 MHL-90
G 3/4 f	Hose i.D. 19	52	32	32	14	straight	13	130	ST 3419 MHL
M 14x1.5 f	Hose i.D. 9	40	17	23.5	10.5	straight	6	33	ST 14159 MHL
M 14x1.5 f	Hose i.D. 9	52	17	22.5	10.5	45°	6	60	ST 14159 MHL-45
M 14x1.5 f	Hose i.D. 9	34	17	22.5	10.5	90°	6	60	ST 14159 MHL-90
M 16x1.5 f	Hose i.D. 13	41	22	27	10	straight	9	50	ST 161513 MHL
M 16x1.5 f	Hose i.D. 13	56	22	22.5	10	45°	9	80	ST 161513MHL-45
M 16x1.5 f	Hose i.D. 13	40	22	22.5	10	90°	9	80	ST 161513MHL-90
M 24x1.5 f	Hose i.D. 19	52	30	32	14	straight	13	132	ST 241519 MHL



Male thread connection nipples with inner cone DIN 3863 – 60° cone


Thread connection	L	SW	L1	L2	Passage	Weight	Type No.
2 x G 1/4 m	23	17	9	9	6	21	D 14 MH
2 x G 3/8 m	23	19	9	9	9	39	D 38 MH
2 x G 1/2 m	30	22	12	12	13	46	D 12 MH
2 x G 3/4 m	40	27	16	16	13	125	D 34 MH
G 1/4 m - M 14x1.5 m	23	17	9	9	6	23	D 14-1415 MH
G 1/4 m - M 16x1.5 m	23	19	9	9	6	27	D 14-1615 MH
G 3/8 m - M 14x1.5 m	23	19	9	9	8	30	D 38-1415 MH
G 3/8 m - M 16x1.5 m	23	19	9	9	9	39	D 38-1615 MH
G 1/2 m - M 14x1.5 m	30	22	12	9	6	55	D 12-1415 MH
G 1/2 m - M 16x1.5 m	30	22	12	9	9	55	D 12-1615 MH
G 1/2 m - M 24x1.5 m	36	27	12	16	13	114	D 12-2415 MH
G 3/4 m - M 24x1.5 m	40	27	16	16	13	105	D 34-2415 MH
2 x M 14x1.5 m	23	17	9	9	6	30	D 1415 MH
2 x M 16x1.5 m	23	19	9	9	9	26	D 1615 MH
2 x M 24x1.5 m	40	27	16	16	13	25	D 2415 MH
M 14x1.5 m - M 16x1.5 m	23	17	9	9	9	20	D 1415-1615 MH
M 14x1.5 m - M 18x1.5 m	26	19	9	12	9	35	D 1415-1815 MH
M 16x1.5 m - M 18x1.5 m	26	19	9	12	9	37	D 1615-1815 MH

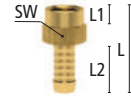


Screwings and Components


Brass MS 58 plain

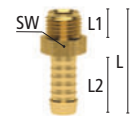
Female thread standard hose stems

Thread connect.	Hose con.	L	SW	L1	L2	Passage		Weight	Type No.
M 14x1.5 f	Hose i.D. 9	37.5	17	12	22.5	6	10	20	TI 14159 MHL
M 16x1.5 f	Hose i.D. 13	40	22	12	25	9	10	45	TI 161513 MHL
M 24x1.5 f	Hose i.D. 19	55	30	18	35	13	10	108	TI 241519 MHL




Male thread standard hose stems with inner cone DIN 3863 – 60° cone

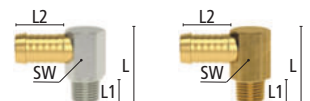
Thread connect.	Hose con.	L	SW	L1	L2	Passage		Weight	Type No.
M 8x0.75 m	Hose i.D. 6	33.5	11	7	22.5	4.5	10	13	G 875-6 THL
M 8x0.75 m	Hose i.D. 9	33.5	11	7	22.5	4.5	10	19	G 875-9 THL
M 10x1 m	Hose i.D. 9	33.5	11	7	22.5	6	10	20	G 101-9 THL
G 1/8 m	Hose i.D. 9	33.5	11	7	22.5	6	10	20	G 18-9 THL
G 1/4 m	Hose i.D. 9	37.5	15	9	22.5	6	10	21	G 14-9 THL
G 1/4 m	Hose i.D. 13	40	15	9	25	8	10	34	G 14-13 THL
M 12x1.5 m	Hose i.D. 13	40	15	9	25	7	10	35	G 1215-13 THL
M 14x1.5 m	Hose i.D. 13	40	15	9	25	9	10	36	G 1415-13 THL
G 3/8 m	Hose i.D. 9	37.5	17	9	22.5	6	10	27	G 38-9 THL
G 3/8 m	Hose i.D. 13	40	17	9	25	9	10	36	G 38-13 THL
M 16x1.5 m	Hose i.D. 13	40	17	9	25	9	10	36	G 1615-13 THL
G 1/2 m	Hose i.D. 19	50	22	12	35	13	10	73	G 12-19 THL
M 24x1.5 m	Hose i.D. 19	56	27	16	35	13	10	114	G 2415-19 THL
G 3/4 m	Hose i.D. 19	56	27	16	35	13	10	125	G 34-19 THL



Male thread standard hose stems 90° (metric threads DIN 158/ R-thread DIN EN 10226)

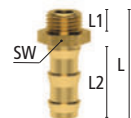
Thread connect.	Hose con.	L	SW	L1	L2	Passage		Weight	Type No.
M 5x0.5 m	Hose i.D. 5	15.5	9	5	18	2.7	10	9	ESHMC505-5SL-90
M 8x0.75 m	Hose i.D. 5	17.5	9	5	20	2.7	10	11	ESHMC875-5SL-90
M 8x0.75 m	Hose i.D. 9	27	15	9	20	4.5	10	35	ESHM 875-9SL-90
M 10x1 m	Hose i.D. 9	27	15	9	20	6	10	38	ESHM 101-9SL-90
R 1/8 m	Hose i.D. 9	27	15	9	20	6	10	38	ESHM 18-9SL-90*
M 14x1.5 m	Hose i.D. 13	34	17	11	24	9	10	47	ESH 1415-13SL90
R 1/4 m	Hose i.D. 13	34	17	11	24	9	10	48	ESH 14-13SL-90*
R 1/2 m	Hose i.D. 19	47	24	16	32	13	10	158	ESHG 12-19SL-90*
M 24x1.5 m	Hose i.D. 19	47	24	16	32	13	10	165	ESHG2415-19SL90

Suitable hose clips, double-ear clips or crimping ferrules for standard hoses (© Page 194 - 197)




Male thread quick-fit hose stems for quick-fit hoses – 60° cone

Thread connect.	Hose con.	L	SW	L1	L2	Passage		Weight	Type No.
M 10x1 m	Hose i.D. 6	41	11	9	28	6	10	20	G 101-6 TH
G 1/8 m	Hose i.D. 6	39	14	7	28	4	10	16	G 18-6 TH
G 1/4 m	Hose i.D. 6	39	17	7	28	4	10	19	G 14-6 TH
G 1/8 m	Hose i.D. 10	39	14	7	28	5	10	21	G 18-10 TH
G 1/4 m	Hose i.D. 10	39	17	7	28	7	10	23	G 14-10 TH
G 1/4 m	Hose i.D. 13	39	17	7	28	9	10	28	G 14-13 TH
M 14x1.5 m	Hose i.D. 10	42	15	9	28	7	10	26	G 1415-10 TH
G 3/8 m	Hose i.D. 10	43	17	10	28	7	10	32	G 38-10 TH
G 3/8 m	Hose i.D. 13	43	17	10	28	9	10	36	G 38-13 TH
G 1/2 m	Hose i.D. 10	43	22	10	28	7	10	41	G 12-10 TH
G 1/2 m	Hose i.D. 13	43	22	10	28	9	10	41.5	G 12-13 TH
G 1/2 m	Hose i.D. 16	58	22	12	38	13	10	70	G 12-16 TH
G 3/4 m	Hose i.D. 16	62	27	16	38	13	10	120	G 34-16 TH
G 3/4 m	Hose i.D. 19	62	27	16	38	14	10	135	G 34-19 TH



Quick-fit hose menders with/without safety collar for quick-fit hoses

Hose connection	L	L1	Passage	Version		Weight	Type No.
Hose i.D. 13	58	28	10	w safety collar	10	24	SV 13 R-TH
Hose i.D. 13	47	22.5	10	w/o safety collar	10	26	SV 13 R-THO
Hose i.D. 16	47	22.5	10	w/o safety collar	10	39	SV 16 R-THO



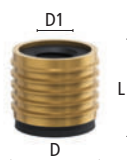
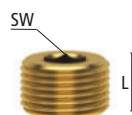
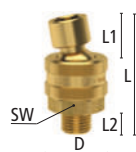
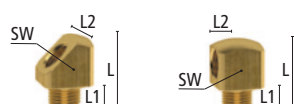
Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses!

Coloured marking rings (© Page 189)

*Hose stems with inch threads are nickel-plated for simple distinction

Screwings and Components

Brass MS 58 plain



Angle screwings for 45° or 90° connections for use as modular system

Thread connection	L	SW	L1	L2	Version	Weight		Type No.
G 1/4 m - G 1/4 f	29	20	8	10	45°	42	5	W 14 IA-45
G 1/4 m - G 1/4 f	29	20	8	13.5	90°	53	5	W 14 IA-90

To be combined with female thread couplings, male thread stems and male plugs G 1/4"

Swivel head screwing for fine adjustments of air nozzles

Thread connection	L	SW	D	L1	L2	Displacement		Weight	Type No.
G 1/4 m - G 1/4 f	53	22	27	9	10	approx. 47°	10	104	KGV 14

(Temperature -20°C/+100°C)

Male thread- / Female thread reducing nipples

Thread connection	L	SW	L1		Weight	Type No.
M 14x1.5 m - M 10x1 f	11	17	7	10	10	R 1415-101 NH
M 18x1.5 m - M 14x15 f	14	22	9	10	15	R 1815-1415 NH
G 1/4 m - G 1/8 f	11	17	7	10	10	R 14-18 NH
G 3/8 m - G 1/4 f	13	19	9	10	15	R 38-14 NH
G 1/2 m - G 3/8 f	18	24	12	10	19	R 12-38 NH
M 24x1.5 m - M 16x1.5 f	24	27	16	10	58	R 2415-1615 NH
G 3/4 m - G 1/2 f	24	27	16	10	55	R 34-12 NH

Locking screws with inner hexagon DIN 906 with tapered male thread

Thread connection	L	SW		Weight	Type No.
M 8x0.75 m	8	4	10	3	VS 875
M 10x1 m	8	5	10	3.5	VS 101
M 12x1.5 m	8	6	10	6	VS 1215
M 14x1.5 m	10	7	10	11	VS 1415
R 1/8 m	8	5	10	7.5	VS 18*
R 1/4 m	10	7	10	11	VS 14*
R 3/8 m	10	8	10	13	VS 38*
R 1/2 m	10	10	10	18	VS 12*

Locking screws with inner hexagon DIN 906 with parallel male thread

Thread connection	L	SW		Weight	Type No.
M 8x0.75 m	8	4	10	3	VS 875 ZY
M 10x1 m	8	5	10	3.5	VS 101 ZY
M 12x1.5 m	8	6	10	6	VS 1215 ZY
M 14x1.5 m	10	7	10	11	VS 1415 ZY
G 1/8 m	8	5	10	7.5	VS 18 ZY*
G 1/4 m	10	7	10	11	VS 14 ZY*
G 3/8 m	10	8	10	13	VS 38 ZY*
G 1/2 m	10	10	10	18	VS 12 ZY*

NEW

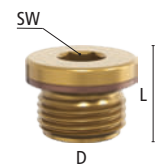
Expanding Mandrel Sealing Plugs

D	L	D1		Weight	Type No.
6	11.8	M 3	10	1	VSSD 6
8	11.8	M 4	10	2.5	VSSD 8
9	11.8	M 4	10	3	VSSD 9
10	14.3	M 6	10	5	VSSD 10
12	14.3	M 6	10	7	VSSD 12
15	16.3	M 8	10	12.5	VSSD 15
16	16.3	M 8	10	15	VSSD 16

*Lockings screws with inch threads are nickel-plated for simple distinction

NEW! Locking screw with collar

Thread	L	SW	D		Weight	Type No.
M 7x1 m	11	3	11	10	5	VSB 71
M 9x1 m	11	4	13	10	7	VSB 91
M 10x1 m	11	5	14	10	8	VSB 101
M 11x1 m	11	5	15	10	9.5	VSB 111
M 12x1.5 m	15	6	17	10	15	VSB 1215
M 14x1.5 m	15	6	19	10	21	VSB 1415
G 1/8 m	11	5	16	10	8	VSB 18
G 1/4 m	15	6	18	10	18	VSB 14
G 3/8 m	15	8	22	10	27	VSB 38
G 1/2 m	18	10	26	10	50	VSB 12
G 3/4 m	20	12	32	10	90	VSB 34




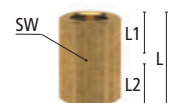
NEW! Screwable sealing plugs (max. 10 bar, temperature: -20°C - +180°C)

Ø	L	Torx		Weight	Type No.
6	9.5	10	10	2	VSO 6
7	9.5	10	10	2.5	VSO 7
8	10	10	10	3.5	VSO 8
10	10.5	20	10	5.5	VSO 10
12	11	20	10	8.5	VSO 12
14	14.5	30	10	14	VSO 14
16	14	30	10	19	VSO 16




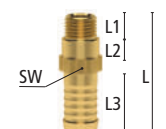
Female thread combination nipples

Thread connection	L	SW	L1	L2		Weight	Type No.
2 x G 1/4 f	26	17	12	12	10	21	U 14 NH
G 1/2 f - M 14x1.5 f	24	27	14	10	10	45	U 12-1415 NH
G 1/2 f - M 16x1.5 f	24	27	14	10	10	46	U 12-1615 NH
G 3/4 f - M 14x1.5 f	28	32	18	10	10	75	U 34-1415 NH
G 3/4 f - M 16x1.5 f	28	32	18	10	10	77	U 34-1615 NH



Male thread standard hose stems with collar

Thread connection	Hose con.	L	SW	L1	L2	L3	Passage		Weight	Type No.
G 1/8 m	Hose i.D. 9	40	11	7	7	22.5	6	10	15	G 189 TA
G 1/4 m	Hose i.D. 13	47	15	9	7	25	9	10	33	G 1413 TA
G 1/2 m	Hose i.D. 19	62	22	12	10	32	13	5	100	G 1219 TA
G 3/4 m	Hose i.D. 19	62	27	12	10	32	13	5	150	G 3419 TA
M 10x1 m	Hose i.D. 9	40	11	7	7	22.5	6	10	15	G 1019 TA
M 12x1.5 m	Hose i.D. 13	47	15	9	7	25	8	10	33	G 121513 TA
M 14x1.5 m	Hose i.D. 13	47	15	9	7	25	9	10	33	G 141513 TA
M 24x1.5 m	Hose i.D. 19	62	27	12	10	32	13	5	140	G 241519 TA



High-Performance Hose Clips

made of Steel W1 (DIN 3017)

- High-performance hose clips made of steel W1, free of chrome VI, zinc-plated and thick layer passivated
- Optimum sealing through high belt tension – maximum strip safety
- Hose-protective through rounded edges and smooth band insides
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of tension over complete hose diameter
- Up to size 90 in boxes, sizes 100-180 in plastic bags, from size 190 individually
- For safe, fast and removable assembly of various hoses and fittings for different media

Materials

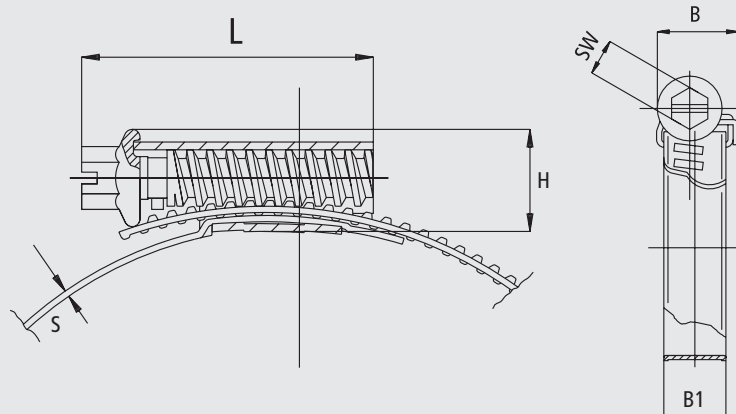
- Band, body, screw: Steel W1 zinc-plated and thick layer passivated

Norm

DIN 3017

High-Performance Hose Clips, band and lock made of steel W 1, zinc-plated

Range		torque		band width		band-thickness					
mm	inch	B	SW	Max.Nm	L	H	B1	S		Weight	Type No.
8-12	5/18-1/2	14	7	2-2.5	20.5	11.5	9	0.7	100	12	HS 12
10-16	5/18-5/8	14	7	2-2.5	20.5	11.5	9	0.8	100	13	HS 16
12-22	1/2-3/4	14	7	3-3.5	24	11.5	9	0.8	100	16	HS 20
16-27	5/8-1	16	7	5-5.5	31	13	9	0.8	100	17	HS 25
20-32	3/4-1 1/4	16	7	5-5.5	31	13	12	0.8	50	27	HS 32
25-40	1-1 5/8	16	7	5-5.5	31	13	12	1.0	50	32	HS 40
30-45	1 3/8-1 3/4	16	7	5-5.5	31	13	12	1.0	50	33	HS 45
35-50	1 1/4-2	16	7	5-5.5	31	13	12	1.0	50	35	HS 50
40-60	1 5/8-2 3/8	16	7	5-5.5	31	13	12	1.0	25	39	HS 60
50-70	2-2 3/4	16	7	5-5.5	31	13	12	1.0	25	43	HS 70
60-80	2 3/8-3 1/8	16	7	5-5.5	31	13	12	1.0	25	45	HS 80
70-90	2 3/4-3 1/2	16	7	5-5.5	37	13	12	1.0	25	52	HS 90
80-100	3 1/8-4	16	7	5-5.5	37	13	12	1.0	10	53	HS 100
90-110	3 1/2-4 3/8	16	7	5-5.5	37	13	12	1.0	10	53	HS 110
100-120	4-4 3/4	16	7	5-5.5	37	13	12	1.0	10	58	HS 120
110-130	4 3/8-5 1/8	16	7	5-5.5	37	13	12	1.0	10	60	HS 130
120-140	4 3/4-5 1/2	16	7	5-5.5	37	13	12	1.0	10	63	HS 140
130-150	5 1/8-5 7/8	16	7	5-5.5	37	13	12	1.0	5	69	HS 150
140-160	5 1/2-6 1/4	16	7	5-5.5	37	13	12	1.0	5	71	HS 160
150-170	5 7/8-6 5/8	16	7	5-5.5	37	13	12	1.0	5	74	HS 170
160-180	6 1/4-7	16	7	5-5.5	37	13	12	1.0	5	77	HS 180
170-190	6 1/2-7 1/2	16	7	5-5.5	37	13	12	1.0	1	79	HS 190
180-200	7 1/8-8	16	7	5-5.5	37	13	12	1.0	1	81	HS 200
190-210	7 1/2-8 1/4	16	7	5-5.5	37	13	12	1.0	1	86	HS 210
200-220	8-8 3/4	16	7	5-5.5	37	13	12	1.0	1	92	HS 220
210-230	8 1/8-9	16	7	5-5.5	37	13	12	1.0	1	98	HS 230
220-240	8 3/4-9 3/8	16	7	5-5.5	37	13	12	1.0	1	101	HS 240
230-250	9-9 3/4	16	7	5-5.5	37	13	12	1.0	1	105	HS 250
240-260	9 3/8-10 1/4	16	7	5-5.5	37	13	12	1.0	1	108	HS 260
250-270	9 3/4-10 1/2	16	7	5-5.5	37	13	12	1.0	1	112	HS 270
260-280	10 1/4-11	16	7	5-5.5	37	13	12	1.0	1	116	HS 280



High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High performance hose clips made of stainless steel W5
- Optimum sealing through high belt tension – maximum strip safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable assembly of various hoses and fittings for different media

Materials

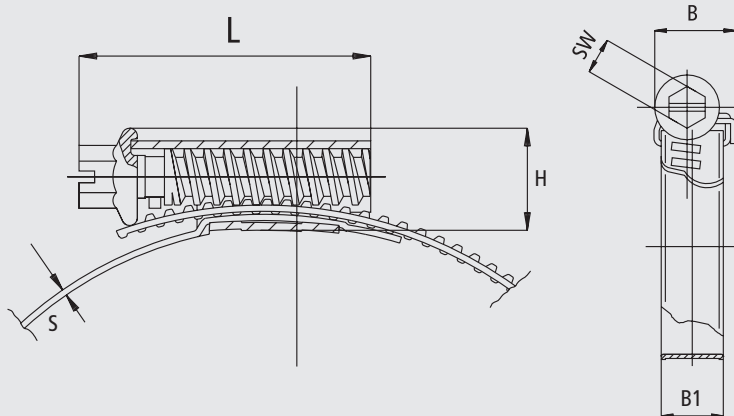
- Band, body, screw: Stainless steel W5

Norm

DIN 3017

High-Performance Hose Clips, band and lock made of stainless steel W 5

Range		torque		band-width		band-thickness					
mm	inch	B	SW	Max. Nm.	L	H	B1	S		Weight	Type No.
8-12	5/18-1/2	10.5	6	1.5	17	9.5	8	0.7	100	6	HSE 12
8-16	5/18-5/8	14	7	2-2.5	21	14	9	0.8	100	11	HSE 16
12-20	1/2-3/4	14	7	2-2.5	24	14	9	0.8	100	13	HSE 20
16-25	5/8-1	14	7	3-3.5	24	14	9	0.8	100	14	HSE 25
20-32	3/4-1 1/4	14	7	3-3.5	24	14	9	0.8	100	15	HSE 32
25-40	1-1 5/8	14	7	3-3.5	26	14	9	0.8	50	18	HSE 40
32-50	1 1/4-2	14	7	3-3.5	26	14	9	0.8	50	18	HSE 50
40-60	1 5/8-2 3/8	14	7	3-3.5	26	14	9	1.0	25	20	HSE 60
50-70	2-2 3/4	14	7	3-3.5	26	14	9	1.0	25	21	HSE 70
60-80	2 3/8-3 1/8	14	7	3-3.5	26	14	9	1.0	25	23	HSE 80
70-90	2 3/4-3 1/2	14	7	3-3.5	26	14	9	1.0	25	25	HSE 90
80-100	3 1/8-4	14	7	3-3.5	26	14	9	1.0	10	28	HSE 100



Double-Ear Hose Clips

- Clips made of special reliable steel zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect, safe and unsolvable
- No risk of injury
- To assemble hoses and fittings for various media

Materials

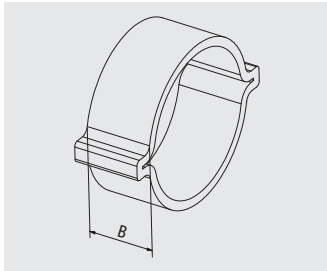
- Clips: Unbreakable special reliable steel, zinc-plated and blue chromated (free of chrome VI)

100

Double-Ear Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43

Special assembly pincer	L	H	Weight	Type No.
	220	50	332	ZOSZ



Ferrules for Low Pressure Hose Lines

- Ferrules made of annealed steel zinc-plated and yellow passivated
- Easy, fast and absolutely safe hose crimping with **LUDECKE** hand-operated assembly machine SPR-333 up to type LPH-23
- No risk of injury, clean and unsolvable connection
- For crimping of various hoses and fittings for different media

Materials

- Body: annealed steel zinc-plated and yellow passivated

Max. Working Pressure

PN 16 bar

Ferrules for Low Pressure Hose Lines

for hose									
D	DIN 20018	water	PVC	L	D1	Assembly-M.	Weight		Type No.
12.5				17	8.5	SPR 333	3	100	LPH-12.5
13.5			6x3	20	9.3	SPR 333	5	100	LPH-13.5
14.5	6x3.5			17	10	SPR 333	5	100	LPH-14.5
16			8x3	17	11.5	SPR 333	5	100	LPH-16
18	9x3.5		10x3	20	13.5	SPR 333	7	100	LPH-18
19			12x3	20	13.9	SPR 333	9	100	LPH-19
19.5				26	14.5	SPR 333	10	100	LPH-19.5
21				32	16.5	SPR 333	12	100	LPH-21
22				32	17	SPR 333	16	100	LPH-22
23		13x3		32	17	SPR 333	18	100	LPH-23
25	13x5			32	17		19	100	LPH-25
28	15x6			32	20.5		22	100	LPH-28
30.5		19x4		33	24.3		24	100	LPH-30
33	19x6			35	24.8		40	25	LPH-33
38		25x4.5		35	28		47	25	LPH-38
41	25x7			40	30		64	25	LPH-41

For higher working pressure we recommend hydraulic crimping with turned steel-ferrules type PH (☹ page 245) or on request.



Hand-Operated Assembly Machine

for Low Pressure Ferrules

- Crimping machine for easy and safe assembly of low-pressure hoses from 3 to 16 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Simple:** Fast assembling quick and easy
- **Reliable:** Improved safety through perfect fit
- **Safe:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 9 mm and from 10 to 16 mm.
- **Flexible:** For mobile use

Assembly Machine

for hose						
Hose o.D./						
Hose i.D.	Range	suitable ferrule	e.g. for fitting		Weight	Type No.
3-16	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2 kg	SPR-333





Construction Industry



Claw Couplings



Complete Screwing Sets, etc.



Mortar Couplings and Plugs



Sandblast Couplings



Hose Clamps and Hose Clips



Ball Valves and Throttle Valves



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Robust Coupling Systems for Outdoor Applications at Construction Sites



Whether in classic construction, mining and tunnelling, ship yards, petrochemical industry, agriculture or in gardening and landscaping: In these areas, reliable coupling systems are required which withstand extreme use and weather conditions.

The **LUDECKE** construction product portfolio offers high-quality and robust products - optimised for a number of challenging applications and different media.

Advantages:

- First-class and especially solid materials
- Safe, reliable and durable
- Simple and intuitive handling
- Different sizes and connection types
- From standard range to individual solutions and customised hose assemblies

Quality and Service



Lifetime-Guarantee: Original **LUDECKE** Claw Couplings and Clamps made of malleable iron from the 60s still used today in pneumatic demolition hammers

Engineered and Made in Germany - with this promise we do not only guarantee excellent products but also a comprehensive customer service.

On the following pages, we will give you an insight on how important it is to choose high-quality couplings and fittings in this area.

Avoid unnecessary safety risks with the **LUDECKE** construction range which has been tested and meets the DIN standards (page 204). Take the chance and have **LUDECKE** customise your products for the hose you want (page 205).

Materials

For all products, **LUDECKE** only uses premium materials which are customised to the application.

Malleable iron

Most of the **LUDECKE** construction fittings are made of malleable cast iron. This material has perfect mechanical properties (e.g. high tensile strength) which prevent brittle fractures when subject to excess strain. As a result, malleable cast iron is perfect for applications in which the components are exposed to strong dynamic stress (e.g. vibrations) and high mechanical forces. **LUDECKE** only works with galvanised and yellow passivated malleable cast iron (free of chrome VI) in accordance with the RoHS guideline.

Steel (Hardened/ Nickel-Plated/ Zinc-Plated)

If products are used under tough conditions (i.e. in foundries), they need to be manufactured out of machining steel (hardened, nickel-plated or zinc-plated). This material has good case-hardening properties and a long lifetime.

Aluminium

Products made of aluminium impress with their very low weight (up to 60% weight reduction). This makes them much easier to handle when in continuous operation. Aluminium is resistant to corrosion as well as chemical media and is ideally suited for machining.

Brass (Plain/ Nickel-Plated)

The material brass MS 58 (machining brass) is a very sturdy material which guarantees high durability and is perfectly suited for galvanisation (nickel, chrome). In the construction sector, this material is applied for complementary products (e.g. locking nuts).

Stainless Steel

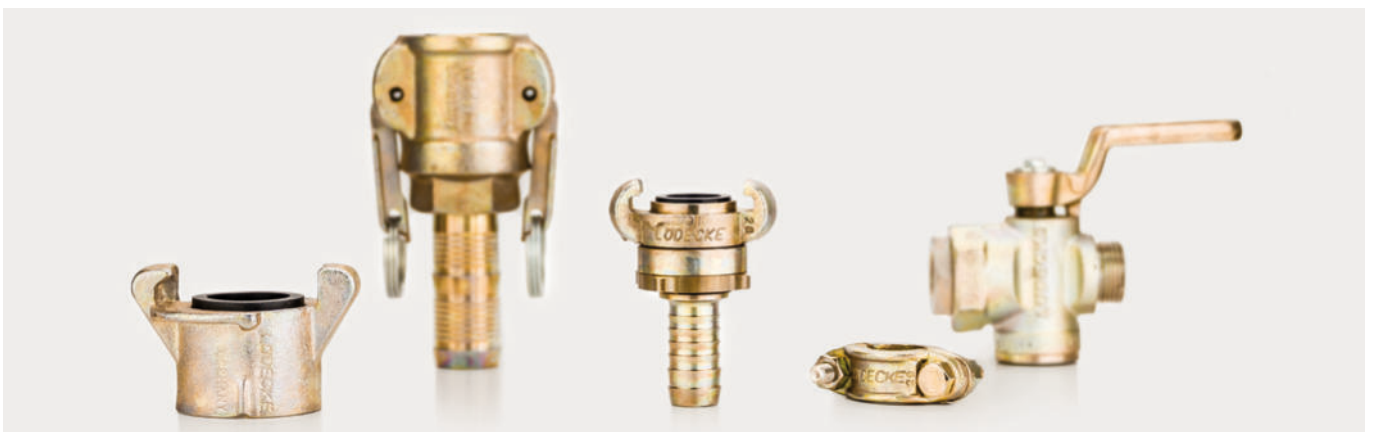
In areas with specific hygiene standards or when conveying various difficult media, quick connect couplings made of stainless steel are required. For further information, please refer to our program for the processing industry.

Seals

Depending on the requirements, **LUDECKE** offers various types of high-quality sealings made of NBR, brass, PTFE and PUR.

Broad Range

From classic claw couplings, mortar couplings and sandblast couplings to hose clamps and throttle valves: At **LUDECKE** you will surely find the right product for a wide range of applications.



Top Quality for Safe Working

High-Risk Potential Caused by Inferior Material



Fracture test - left: **LUDKE** hose clamp (no crack/ fracture), right: hose clamp from the Far East (complete fracture)

Again and again, you will find cheap copies of claw couplings and their matching hose clamps on the market. They are mostly manufactured in the Far East.

Lack of functionality

However, using such products comes with a high-risk potential: On the one hand, many cast components have great tolerances. Often, the couplings can no longer be tightly connected and or lead to leakages. Moreover, due to the improperly casted hose barbs and high tolerances of the clamps, a safe fitting of a hose cannot be guaranteed!

High Potential of Fractures

As these copies are often produced with low-quality and non-approved materials such as chilled cast iron (white iron), the products may easily fracture under high strain (i.e. when installed in strongly vibrating construction machines with compressed air).

Using such unsuitable products poses a high liability risk!

Safety with High-Quality and Standardised Components

To avoid these great safety risks, pay attention to the following:

- White iron and other inferior materials are hard and very brittle due to their high amount of cementite steel. As a result, they are inappropriate materials for high stress applications
- The production of malleable cast iron is more time-consuming and expensive as it undergoes an additional annealing treatment. However, this provides malleable cast iron with enhanced mechanical properties and makes it perfect for extreme conditions.
- Only components should be sold and used which follow the current standards (DIN 3489, DIN 3238, DIN 20039) and show the obligatory manufacturer's branding.



Original **LUDKE** Claw Coupling according to DIN 3489

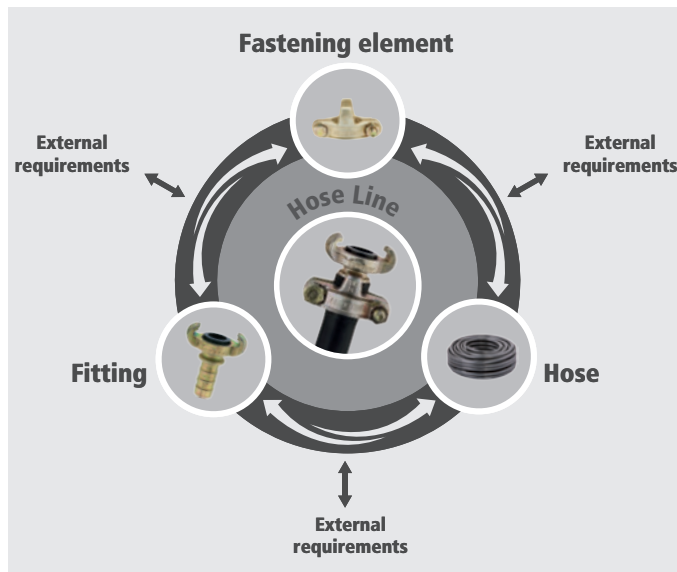


Counterfeit from the Far East (no manufacturer's branding, inferior material)

The products of the **LUDKE** construction range undergo continuous, strict quality tests. In this way, we always guarantee high reliability for permanent use.

Assembly of Hoses and Fittings

It is all about the perfect connection



High-quality couplings and fittings are essential for reliable and safe operation. However, long-term and satisfying results are only achieved, when all components of a hose line interact perfectly.

Problems when assembling fittings on hoses:

There are a number of hose manufacturers which often offer different materials and dimensions for identical hose sizes and purposes due to missing standards.

Then there are the fittings manufacturers. They produce diverse fittings for standard hose sizes and use different assembly methods. These fittings have also dimensional tolerances just as the hoses. This is why barb contours from various manufacturers can vary in form and dimension.

General Statements are not always Possible

Assembled hose lines often act very differently under pressure and temperature. Depending on the application, this will hamper a secure connection between hose and fitting.

Moreover, the requirements hose lines have to meet are continuously increasing with regards to resistance to operating pressures, ambient and operating temperature, chemical substances and external mechanical strain.

Due to the variety of impacting parameters, it is not possible to make a generalised statement about the reliability of hose assemblies based on their individual components.

Professional Hose Assemblies with **LUDECKE**



Based on the desired hose type, **LUDECKE** helps to select the right fitting and assembly method.

All hose assemblies are also tested in our own test centre using a wide range of criteria.

Our specially trained experts (persons qualified to test hose assemblies in accordance to German law § 2 Para. 6 BetrSichV) can make reliable statements about their suitability for the applications and media in question.

If you cannot find a properly sized fitting for your hose, we will be happy to produce a customised solution.

Claw Couplings



The **LUDECKE** claw coupling is the system which is applied world-wide for compressed air supply in construction and industry.

Malleable cast iron is the only material we use in this manufacturing process (exception: stainless steel for critical media). Due to its heat treatment, this cast material guarantees the required elasticity especially for thin walled parts and is the mandatory material according to DIN 3489 and DIN 3238.

The **LUDECKE** claw coupling range consists of different versions and offers numerous application possibilities.

Advantages:

- High-quality materials
- Very robust and durable
- Simple and fast handling
- Identical coupling head: connection versions and sealing systems can be connected with each other
- Maximum bore for maximum flow
- Increased safety with MODY-Safety-Screwing-Couplings and claw couplings with safety collar
- Different connection and thread types

A Reliable Classic

The success story of **LUDECKE** started with the claw coupling. To this day, this product is characterized by reliability, safety and excellent quality.



The Coupling Concept: Simply Brilliant

Push the two couplings together at 180° degrees opposite to each other until the seal faces touch. Afterwards, rotate one coupling half as far as it will go into the opposite direction of the other - the couplings lock into place.

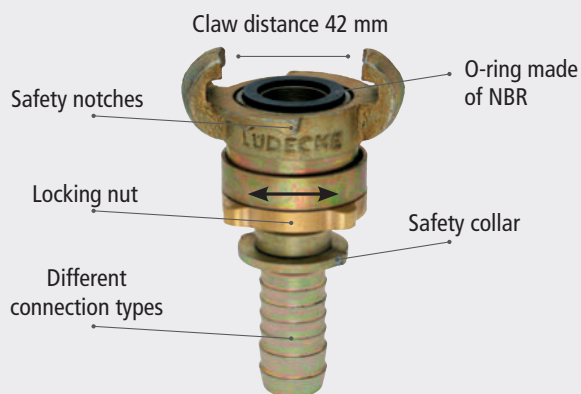


To disconnect, push the coupling and the counterpart together in axial direction. Afterwards, turn one coupling half as far as possible in the opposite direction as you would do when connecting and remove it from the counterpart.

Maximum Safety

Operator and machine safety is always our top priority. This is why we offer our claw couplings with two safety functions.

MODY-Safety-Screwing Coupling DIN 3238



To ensure a perfect connection, we recommend to take the MODY-safety-screwing coupling. It has a locking nut which is tightened manually and prevents the coupling halves from loosening.

In general, we recommend to always choose a classic claw coupling with a MODY-safety-screwing coupling. This connection is absolutely safe, easy to connect and 100 % leakage-proof.

Claw Couplings with Safety Collar



Many **LUDECKE** claw couplings are available with an optional safety collar. Special hose clamps allow for a reliable and technically correct assembly of the hose to the coupling. The hose clamps have safety claws which hook firmly into the safety collar. This prevents unintended slipping or loosening of the hose. The safety claws also ensure that the hose clamps are attached to the hose stems with the correct spacing - incorrect installation can be eliminated.

Overview of Claw Couplings

also in Stainless Steel

Standard

DIN 3489



Swivelling

DIN 3489



also in Stainless Steel

MODY-Safety-Screwing Coupling

DIN 3238



With Brass Seal



Materials

Claw:

Malleable iron
(zinc-plated +
yellow passivated)

Malleable iron
(zinc-plated +
yellow passivated)

Malleable iron
(zinc-plated +
yellow passivated)

Malleable iron
(zinc-plated +
yellow passivated)

Connector:

Malleable iron
(zinc-plated +
yellow passivated)

Steel
(zinc-plated +
yellow passivated)

Steel
(zinc-plated +
yellow passivated)

Malleable iron
(zinc-plated +
yellow passivated)

Locking nut:

-

-

MS 58 plain

-

Screw:

-

-

-

Steel
(zinc-plated +
yellow passivated)

Seals:

NBR

NBR

NBR, Brass

Brass

Special seals
on request:

TFEP, FKM, EPDM

TFEP, FKM, EPDM

TFEP, FKM, EPDM

TFEP, FKM, EPDM

Max. Working Pressure:

PN 10 bar

PN 16 bar

PN 16 bar

PN 10 bar

Temperature:

-40°C - + 95°C

-40°C - + 95°C

-40°C - + 95°C

-40°C - + 95°C

Thread types:

ISO 228, NPT

ISO 228

ISO 228, NPT

ISO 228

Claw distance:

42 mm

42 mm

42 mm

42 mm

Others:

also available in
stainless steel

-

also available in stainless
steel,
also available with colour
coated claw

-

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With Bore for Safety-Clips	Left-Closing	Made of Hardened Steel	Made of Forged Brass	US-Version with Bore for Safety Clips	US-Version with Bore for Safety Clips - MODY
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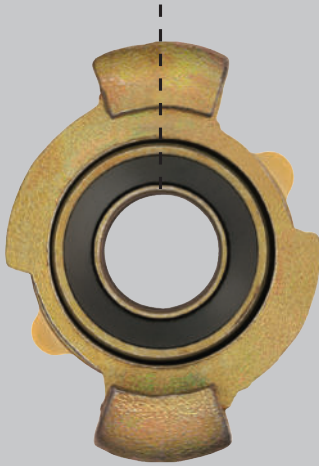


Malleable iron (zinc-plated + yellow passivated)	Malleable iron (zinc-plated + yellow passivated)	Steel (hardened, zinc-plated + yellow passivated)	MS 58 plain	Malleable iron (zinc-plated + yellow passivated)	Malleable iron (zinc-plated + yellow passivated)
Malleable iron (zinc-plated + yellow passivated)	Steel (zinc-plated + yellow passivated)	Steel (hardened, zinc-plated + yellow passivated)	MS 58 plain	Malleable iron (zinc-plated + yellow passivated)	Steel (zinc-plated + yellow passivated)
-	MS 58 plain	MS 58 plain	-	-	MS 58 plain
-	-	-	-	-	-
NBR	NBR/ Brass	NBR	NBR	NBR	NBR
TFEP, FKM, EPDM	TFEP, FKM, EPDM	TFEP, FKM, EPDM	-	-	TFEP, FKM, EPDM
PN 10 bar	PN 16 bar	PN 16 bar	PN 10 bar	PN 10 bar	PN 16 bar
-40°C - + 95°C	-40°C - + 95°C	-40°C - + 95°C	-40°C - + 95°C	-40°C - + 95°C	-40°C - + 95°C
ISO 228, NPT	ISO 228	ISO 228, NPT	ISO 228	ISO 228, NPT	ISO 228, NPT
42 mm	42 mm	42 mm	42 mm	41 mm	41 mm
available incl. safety clips (Steel zinc-plated)	also available with colour coated claw	-	French system (according to Norm NF E 29-573)	US-version, available incl. safety clips (Steel zinc-plated)	US-version, available incl. safety clips (Steel zinc-plated)
217	218	219	220	221	222

Standards for Claw Couplings

Claw Couplings according to DIN 3238

New seal holder embedded in coupling body

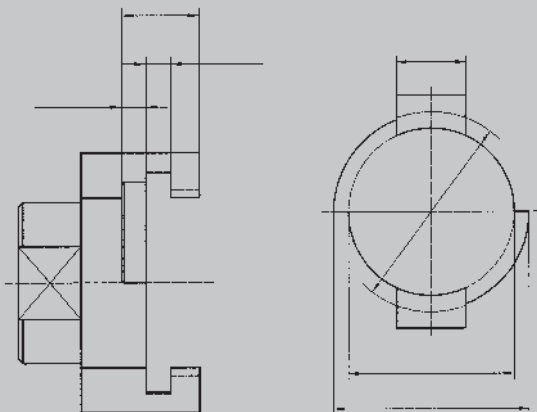


Special requirements

- Threads according to **DIN EN ISO 228-1** and **ANSI/ ASME B 1.20.1**
- Claw couplings and sealing rings corresponding to this standard **must have manufacturer markings!**
- Working pressure **max. 16 bar**
- **100 % sight control**
- **100 % function check with gauge (coupling control)**
- **Approved raw materials used only:**
 - Malleable iron: EN-GJMW-400-5(EN-JM1030) acc. to DIN EN 1562
 - M1-Alloy: Alloy DIN 17660-CuZn39Pb2 (2.0380)
 - Steel: Type to be chosen by manufacturers
 - 11SMnPb30 (1.0718) acc. to DIN EN 10087
 - 11SMnPb30 (1.0718) acc. to DIN EN 10277-3
 - X5CrNi Mo 17-12-2 (1.4401) acc. to DIN EN 10088-1
 - G-X5CrNiMo 19-11-2 (1.4408) acc. to DIN EN 10213-4
 - G-X5CrNiMoNb 19-11-12 (1.4581) acc. to DIN EN 10213-4
- **New seal**
- **New seal holder - 2-way guidance**

Claw Couplings according to DIN 3489

Test gauge for claw couplings



Special requirements

- Threads according to **DIN EN ISO 228-1** and **ANSI/ ASME B 1.20.1**
- Claw couplings and sealing rings corresponding to this standard **must have manufacturer markings!**
- Working pressure **max. 10 bar**
- **100 % sight control required**
- **100 % function check with gauge (coupling control)**
- **Approved raw materials used only:**
 - Malleable iron: EN-GJMW-400-5(EN-JM1030) acc. to DIN EN 1562
 - M1-Alloy: Alloy DIN 17660-CuZn39Pb2 (2.0380)
 - Steel: Type to be chosen by manufacturer
 - 11SMnPb30 (1.0718) acc. to DIN EN 10087
 - 11SMnPb30 (1.0718) acc. to DIN EN 10277-3
 - X5CrNi Mo 17-12-2 (1.4401) acc. to DIN EN 10088-1
 - G-X5CrNiMo 19-11-2 (1.4408) acc. to DIN EN 10213-4
 - G-X5CrNiMoNb 19-11-12 (1.4581) acc. to DIN EN 10213-4

Claw Couplings

Standard Version DIN 3489

- Robust claw couplings made of malleable iron zinc-plated and yellow passivated (free of chrome VI), with safety notches
- 100 % function check and sight control
- With oil-resistant rubber ring GOER, on request with steam resistant rubber ring GDOR made of TFEP (up to +200°C), surcharge: 6.72 Euro
- Universal coupling, worldwide used system for compressed air supply in construction and industry

Materials

- Claw, connector: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

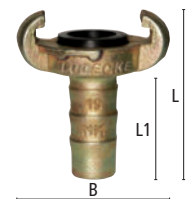
Max. Working Pressure	Temperature	Thread	Norm	Claw distance	Media	
PN 10 bar	-40°C – +95°C	ISO 228, NPT	DIN 3489	42 mm	Compressed Air	10

Also in Stainless steel
Page 330

Claw Couplings with hose barb (formerly DIN 3483)

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 6	70	63	25	5	157	SKG 6
Hose i.D. 10	76	63	45	7	150	SKG 10
Hose i.D. 13	69	63	45	8.5	141	SKG 13
Hose i.D. 15	69	63	45	11	142	SKG 15
Hose i.D. 19	69	63	45	15	155	SKG 19
Hose i.D. 25	70	63	46	19	176	SKG 25
Hose i.D. 32	90	63	64	20	244	SKG 32

For hose clamps DIN 20039 A, type SL (© page 253) or crimping ferrules type LPH (© page 401)

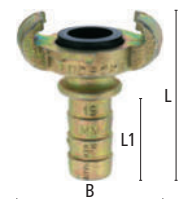


Claw Couplings with hose barb and safety collar

Hose connection	L	B	L1	Ø Collar	Passage	Weight	Type No.
Hose i.D. 13	75	63	35.5	25	8.5	174	SKB 13
Hose i.D. 15	75	63	35.5	26	11	175	SKB 15
Hose i.D. 19	75	63	40.5	28.5	15	182	SKB 19
Hose i.D. 19	73.5	63	41	24	15	160	SKB 19 FL*
Hose i.D. 25	75	63	40.5	40	20	240	SKB 25
Hose i.D. 25	75	63	40.5	30	20	190	SKB 25 FL*

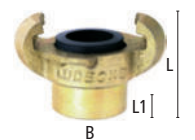
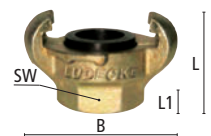
For hose clamps DIN 20039 B, type SK (© page 253), safe hose assembly.

*Flat hose version, assembly with hose clamps SK..FL



Claw Couplings with female thread (formerly DIN 3482)

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/4 f	36	22	63	12	11	138	KIG 14
G 3/8 f	36	22	63	12	15	135	KIG 38
G 1/2 f	38	27	63	12	19	150	KIG 12
G 1/2 f	41	-	63	14.5	19	180	KIGO 12**
G 3/4 f	40	32	63	14.5	20	155	KIG 34
NPT 3/4 f	38	32	63	17	20	160	KIG 34 NPT
G 3/4 f	41	-	63	14.5	20	155	KIGO 34**
G 1 f	40	41	63	18	20	184	KIG 10
NPT 1 f	40	40	63	18	20	180	KIG 10 NPT
G 1 1/4 f	55	50	63	18	20	297	KIG 54



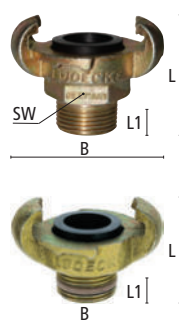
Claw Couplings with blank ends (formerly DIN 3484)

Version	L	B		Weight	Type No.
without chain	43	63	10	130	VKO
with chain	43	63	10	140	VKM
chain, spare part (steel zinc-plated)	200	-	25	7	VKM-K



Claw Couplings

Standard Version DIN 3489




Claw Couplings with male thread (formerly DIN 3481)							
Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/4 m	50	22	63	9	6	157	KAG 14
G 3/8 m	52	27	63	14	9	170	KAG 38
G 1/2 m	47	27	63	14	13	162	KAG 12
NPT 1/2 m	49	27	63	16	13	166	KAG 12 NPT
G 3/4 m	50	32	63	14,5	17	175	KAG 34
NPT 3/4 m	49	32	63	17	18	176	KAG 34 NPT
G 3/4 m	41	-	63	15	17	150	KAGO 34**
G 1 m	47	40	63	15	20	174	KAG 10
NPT 1 m	48	40	63	15	20	196	KAG 10 NPT
G 1 m	41	-	63	15	20	165	KAGO 10**
G 1 1/4 m	52	46	63	18	20	230	KAG 54


Male thread sealing with PVC sealing ring type HPD (☉ below)

**without Hexagon, with LÜDSY-sealing ring


Max. Working Pressure	Temperature	Thread	Claw distance	Media
PN 10 bar	-40°C – +95°C	ISO 228/ DIN EN 10226	42 mm	Air

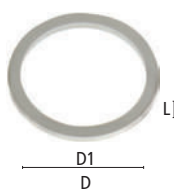


Three-way connections with thread connection or claw couplings (rubber seal)								
Connection	L	B	Material	Seal	Passage		Weight	Type No.
3 x R 3/4 f	68	68	Malleable iron	-	24	1	255	DWS 34
3 x KAGO 34	120	120	Malleable iron	NBR	17	1	708	DWSG 34
3 x R 1 f	85	85	Malleable iron	-	30	1	413	DWS 10
3 x KAGO 10	135	130	Malleable iron	NBR	21	1	905	DWSG 10

Original Rubber Rings for Standard Claw Couplings DIN 3489											
Resistance	L	D	D1	Material	Temp°C	Media	Colour	Shore A		Weight	Type No.
Oil	11	34	20	NBR	-40 – +95	Compr. Air	black	65°	100	6	GOER
Steam	10	33	20	TFEP	-15 – +200	Steam	red	65°	10	6	GDOR
Chemicals	10.5	34	20	FKM	-40 – +200	Chemical	green	50°	10	9	GVOR



Hard PVC Sealing Rings for fast, easy and tight sealing of male threads						
For male thread	L	D	D1		Weight	Type No.
G 1/8 m	1.5	13	10	100	0.13	HPD 18
G 1/4 m	2	17.5	13.5	100	0.31	HPD 14
G 3/8 m	2	20.8	16.9	100	0.37	HPD 38
G 1/2 m	2	25.5	21.2	100	0.53	HPD 12
G 3/4 m	2	31.5	26.4	100	0.73	HPD 34
G 1 m	2	40	33.5	100	1.15	HPD 10



Claw Couplings

Swivelling, DIN 3489

- High-quality claw couplings, head made of malleable iron, thread connections and hose stem made of turned steel with special profile, zinc-plated and yellow passivated (free of chrome VI) with safety notches
- Easy 360° turning under pressure, therefore no hose twist
- Sealed by two O-rings, mounted on 2 teflon washers, safe and protected
- 100 % leakage-proof through machined seal holder, standard sealing can be used (GOER)
- Maximum bore for maximum flow rate
- On request with steam resistant sealing GDOR made of TFEP (surcharge: 6.72 euros)
- 100 % function check and sight control
- For flexible compressed air supply in construction and industry, if used as thread coupling assembled at the tool up to 10 times higher durability compared to rigid standard couplings! The swivel principle absorbs all vibrations!



Materials

- Claw: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Connector: Steel zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Norm	Claw distance	Media	
PN 16 bar	-40°C – +95°C	ISO 228	DIN 3489	42 mm	Air a.o.	5

Claw Couplings with hose barb

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	87	63	41	10	221	SKG 13-DR
Hose i.D. 19	87	63	41	15	230	SKG 19-DR
Hose i.D. 25	87	63	41	19	260	SKG 25-DR

For hose clamps DIN 20039 A type SL (☺ page 253) or crimping ferrules type LPH (☺ page 401)

Claw Couplings with hose barb and safety collar

Hose connection	L	B	L1	ØCollar	Passage	Weight	Type No.
Hose i.D. 13	96	63	41	24	10	236	SKB 13-DR
Hose i.D. 19	98	63	41	34	15	250	SKB 19-DR
Hose i.D. 25	98	63	41	39	19	290	SKB 25-DR

For hose clamps DIN 20039 B type SK (☺ page 413)

Claw Couplings with female thread

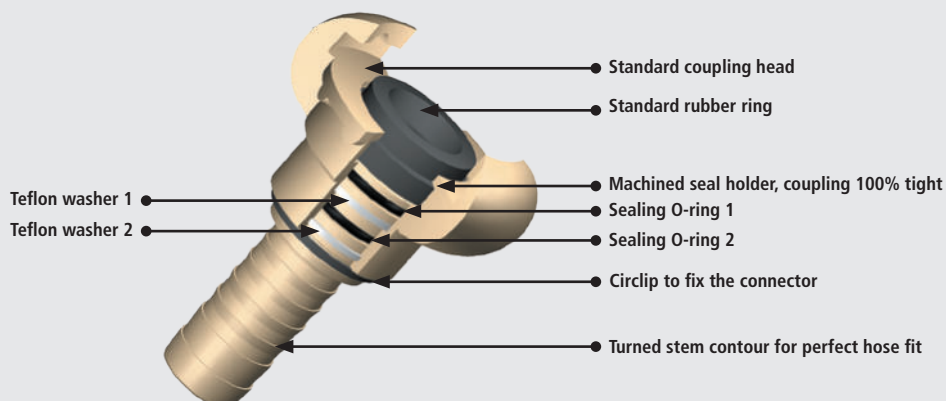
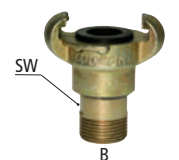
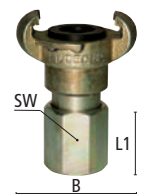
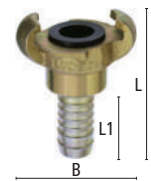
Thread connection	L	B	SW	L1	Passage	Weight	Type No.
G 1/2 f	61	63	24	15	17	240	KIG 12-DR
G 3/4 f	85	63	32	15	17	330	KIG 34-DR
G 1 f	90	63	41	15	17	430	KIG 10-DR

Claw Couplings with male thread

Thread connection	L	B	SW	L1	Passage	Weight	Type No.
G 1/2 m	67	63	24	14	13	240	KAG 12-DR
G 3/4 m	68	63	24	15	17	236	KAG 34-DR
G 1 m	83	63	36	15	19	315	KAG 10-DR

Original Rubber Rings

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Oil	11	34	20	NBR	-40 – +95	Compr. Air	black	65°	100	6	GOER
Steam	10	33	20	TFEP	-40 – +200	Steam	red	65°	10	6	GDOR



Claw Couplings

MODY-Safety-Screwing Couplings DIN 3238

100 %

- Easy handling
- Safe
- Leakage-proof

- High-quality safety-screwing couplings, claw made of malleable iron with safety notches, hose stem made of turned steel with special contour, zinc-plated and yellow passivated (free of chrome VI)
- Reinforced thread protection ring and new sealing ring, holder embedded in coupling body
- With oil resistant rubber ring, on request with steam resistant rubber ring made of TFEP (up to +200°C)
- 100 % leakage-proof, reduces expensive air consumption
- Easy to couple, secured against accidental opening through tightening the locking nut
- Maximum bore for maximum flow rate
- **For absolutely safe compressed air supply in construction and industry**

Materials

- Claw: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Locking nut, safety clamps: Brass MS 58 plain
- Connector: Steel zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

Also in Stainless steel
Page 331

Max. Working Pressure	Temperature	Thread	Norm	Claw distance	Media	
PN 16 bar	-40°C – +95°C	ISO 228	DIN 3238, NPT	42 mm	Compressed Air	5

MODY-Safety-Screwing Couplings with hose barb

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 10	100	63	41	6.5	309	SSG 10
Hose i.D. 13	100	63	41	10	309	SSG 13
Hose i.D. 15	100	63	41	11	316	SSG 15
Hose i.D. 19	100	63	41	15	319	SSG 19
Hose i.D. 25	100	63	41	18	346	SSG 25
Hose i.D. 32	135	63	48	18	464	SSG 32

For hose clamps DIN 20039 A type SL (☺ page 253) or crimping ferrules type LPH (☺ page 401)

MODY-Safety-Screwing Couplings with hose barb and safety collar

Hose connection	L	B	L1	ØCollar	Passage	Weight	Type No.
Hose i.D. 10	103	63	41	21	6.5	323	SSG 10 S
Hose i.D. 13	110	63	41	24	10	321	SSG 13 S
Hose i.D. 15	112	63	41	27	11	343	SSG 15 S
Hose i.D. 19	112	63	40.5	32	15	350	SSG 19 S
Hose i.D. 25	112	63	40.5	39	18	386	SSG 25 S

For hose clamps DIN 20039 B type SK (☺ page 413)

MODY-Safety-Screwing Couplings with hose barb for crimping ferrules (hydraulic crimping)

Hose connection	L	B	L1	ØCollar	Passage	Weight	Type No.
Hose i.D. 19	108	63	40	24	15	359	SSG 19 PH

Crimping with crimping ferrule PH-19 (☺ page 245)

Other sizes on request

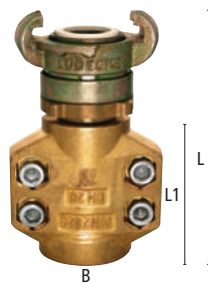
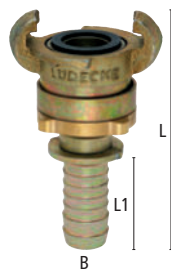
MODY-Safety-Screwing Couplings with hose barb for safety clamps

Hose connection	L	B	L1	ØCollar	Passage	Weight	Type No.
Hose i.D. 19	110	63	35	26	15	340	SSG 19-KSA

For safety clamps VG 85 328 Type KSA 30-33 (☺ page 344)

MODY-Safety-Screwing Couplings with brass safety clamp for steam applications

Hose connection	L	B	L1	Passage	Seal	Weight	Type No.
Hose 19x7	113	63	52	15	TFEP (SDOR-N)	920	SSG 19 KSM
Hose 25x7.5	113	63	52	18	TFEP (SDOR-N)	1120	SSG 25 KSM

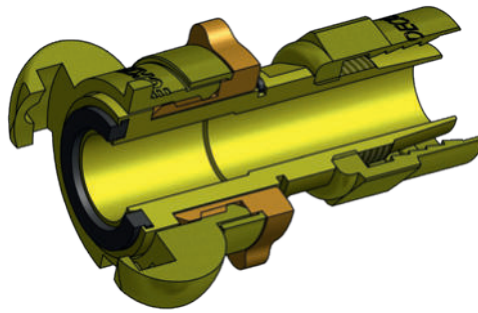


Claw Couplings

MODY-Safety-Screwing Couplings DIN 3238

Thread ferrule according to DIN EN 14 424 as perfect hose connection for optimum safety; can be unlocked and reused at any time

Please pay attention to details for essential hose wall thickness!

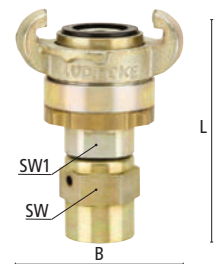


MODY-Safety-Screwing Couplings with thread ferrule (according to DIN EN 14 424)

Hose connection	L	SW	B	SW1	Passage	Weight	Type No.
Hose 13x3	92	27	63	24	11	400	SSG 133 TQ
Hose 13x5	92	27	63	24	11	405	SSG 135 TQ
Hose 15x5	95	32	63	24	13	415	SSG 155 TQ
Hose 19x5	95	32	63	24	16	435	SSG 195 TQ
Hose 19x6	95	36	63	24	16	440	SSG 196 TQ
Hose 25x5	105	41	63	24	22	510	SSG 255 TQ
Hose 25x7	105	46	63	24	22	520	SSG 257 TQ

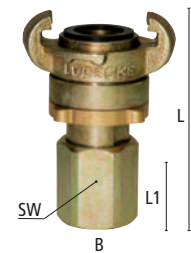
(Size 1" two parts screwed together)

Assembly instructions for thread ferrules (www.luedecke.com)



MODY-Safety-Screwing Couplings with female thread

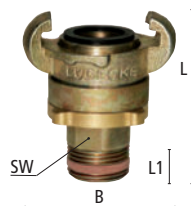
Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 3/8 f	68	24	63	13	13	347	SSGI 38
G 1/2 f	70	24	63	15	17	329	SSGI 12
G 3/4 f	93	32	63	20	17	419	SSGI 34
NPT 3/4 f	93	32	63	21.5	17	388	SSGI 34 NPT
G 1 f	95	41	63	22	17	516	SSGI 10
NPT 1 f	97	41	63	22	17	473	SSGI 10 NPT



MODY-Safety-Screwing Couplings with male thread and LÜDSY-sealing system

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 3/8 m	72	24	63	13	10	320	SSGA 38
G 1/2 m	73	24	63	14	13	351	SSGA 12
G 3/4 m	73	24	63	15	17	345	SSGA 34
NPT 3/4 m	73	24	63	18	17	345	SSGA 34 NPT*
R 1 m	85	36	63	18	17	401	SSGA 10
NPT 1 m	83	36	63	19	17	401	SSGA 10 NPT*

*without LÜDSY-thread sealing




Original MODY-Rubber Rings – Standard Version

Resist.	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Oil	4	30	21	NBR	-40 – +95	Compr. Air	black	75°	50	1.7	SGOR-N
Steam	4	30	21	TFEP	-15 – +200	Steam	red	65°	10	1.7	SDOR-N



Original MODY-Rubber Rings – Old Version (Only suitable for MODY-Couplings with old seal holder!)

Resist.	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Oil	7	33	21	NBR	-40 – +95	Compr. Air	black	60°	50	4	SGOR



All types also available coloured (powder-coated)! Surcharge 3.96 Euro/ piece



RAL 5010



RAL 6029



RAL 1004



RAL 2002

Ⓢ Minimum quantity per type: 100 piece!

Claw Couplings

with Brass Seal

- Robust claw couplings made of malleable iron zinc-plated and yellow passivated (free of chrome VI) with safety notches
- 100 % function check and sight control
- With brass seal, oil-resistant hose ring and zinc-plated screw
- Easy to couple, no loosening or sticking of the seal by itself when coupled
- Always needs to be coupled with a standard claw coupling with rubber seal!
- **Universal couplings for compressed air supply in construction and industry, mainly used at the compressor or air tool**

Materials

- Claw, connector: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Screw: Steel zinc-plated and yellow passivated (free of chrome VI)
- Seals: Brass

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 10 bar	-40°C – +95°C	ISO 228	42 mm	Compressed Air	10

Claw Couplings with hose barb and brass seal

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	78	63	39	8.5	212	SKM 13*
Hose i.D. 15	88	63	39	11	226	SKM 15*
Hose i.D. 19	84	63	46	15	211	SKM 19
Hose i.D. 25	84	63	46	19	225	SKM 25

For hose clamps type SL DIN 20039 A (© page 253)

*two parts with thread stem made of steel

Claw Couplings with female thread and brass seal

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/2 f	50	32	63	14	17	220	KIM 12
G 3/4 f	50	32	63	14.5	17	200	KIM 34
G 1 f	52	41	63	17	17	260	KIM 10

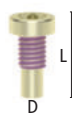
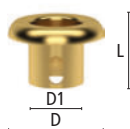
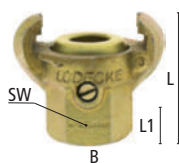
Claw Couplings with male thread and brass seal

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/2 m	55	27	63	14	11	193	KAM 12
G 3/4 m	51	32	63	14	17	206	KAM 34
G 1 m	48	40	63	15	17	213	KAM 10

Male thread sealing with PVC sealing ring type HPD (© page 212)

Original spare parts for claw couplings with brass seal

Type	L	D	D1	Material		Weight	Type No.
Brass sleeve	21	32	17	Brass	10	12.5	MOOH
Hose ring	12	28	23	NBR	100	3.2	SOOR
Steel screw M5	14	7	-	Steel zinc-pl. + yellow pass.	100	2	HOOS



Claw Couplings

with Bore for Safety-Clips

- Robust claw couplings made of malleable iron zinc-plated and yellow passivated (free of chrome VI)
- 100 % function check and sight control
- With oil-resistant rubber ring GOER, on request with steam resistant rubber ring GDOR (up to +200°C), surcharge: 6.72 Euro
- When coupled, can be secured against accidental opening through safety-clips DIN 11024
- Universal coupling, used worldwide mainly in mining or tunnelling

Materials

- Claw, connector: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 10 bar	-40°C – +95°C	ISO 228, NPT	42 mm	Compressed Air	10

Claw Couplings with hose barb and safety collar

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	74	63	40	8.5	167	SKSS 13
Hose i.D. 19	75	63	40	15	196	SKSS 19
Hose i.D. 25	75	63	40	19	222	SKSS 25

For hose clamps DIN 20039 B, type SK (☹ page 253) safe hose assembly

Claw Couplings with female thread

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/2 f	37	27	63	14	18.5	141	KISS 12
G 3/4 f	39	32	63	14.5	20	145	KISS 34
G 1 f	41	41	63	18	20	182	KISS 10
NPT 1 f	41	41	63	18	20	180	KISS 10 NPT

Claw Couplings with male thread

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/2 m	49	27	63	14	13	170	KASS 12
G 3/4 m	49	32	63	15	17	182	KASS 34
G 1 m	53	39	63	15.5	20	199	KASS 10

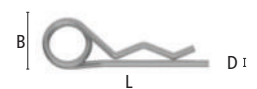
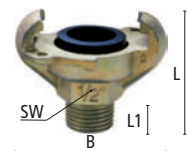
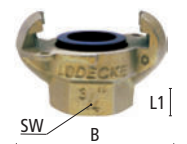
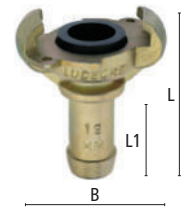
Male thread sealing with PVC sealing ring type HPD (☹ page 212)

Original Rubber Rings

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Oil	11	34	20	NBR	-40 – +95	Compr. Air	black	65°	100	6	GOER
Steam	10	33	20	TFEP	-15 – +200	Steam	red	65°	10	6	GDOR

Universal Safety-Clips DIN 11024

L	B	D	Material		Weight	Type No.
63	27	3	Steel zinc-plated	50	10	USC-1



Claw Couplings

Left-Closing and Coloured

100 %

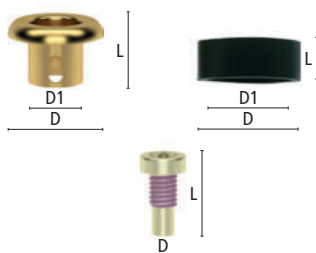
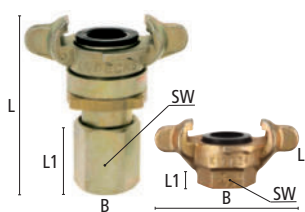
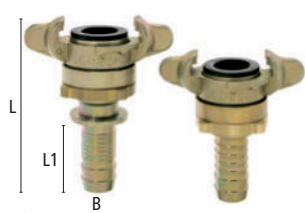
- Easy handling
- Safe
- Leakage-proof

- Robust claw couplings made of malleable iron/ steel zinc-plated and yellow passivated (free of chrome VI) with safety notches and locking nut on female claw couplings left-closing
- 100 % function check and sight control
- With oil-resistant rubber ring SGOR-N, on request with steam resistant rubber ring SDOR-N (up to +200°C), with brass seal and standard seal
- Due to left-closing mechanism, the couplings cannot be connected with standard claw couplings (right-closing), additional warning through flaps at the claws or colour coding
- **Mainly used in chemical and petrochemical industry to make false coupling impossible when using different media, e.g. compressed air, steam, gas, nitrogen**

Materials

- Claw: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Connector: Steel zinc-plated and yellow passivated (free of chrome VI)
- Locking nut: Brass MS 58 plain
- Seals: NBR/ Brass

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 16 bar	-40°C – +95°C	ISO 228	42 mm	various	1



Claw Couplings left-closing with hose barb

Hose connection	L	B	L1	Passage	Typ	Version	Seal	Weight	Type No.
Hose i.D. 19	100	85	41	16	MODY	w/o safety collar	NBR	340	SSGL 19
Hose i.D. 19	112	85	40.5	16	MODY	w safety collar	NBR	367	SSGL 19 S
Hose i.D. 19	84	85	49	16	MS-Seal	w/o safety collar	Brass	240	SKML 19

Other sizes on request.

For hose clamps DIN 20039 A or B (☺ page 253)

Claw Couplings left-closing with female thread

Thread connection	L	SW	B	L1	Passage	Typ	Seal	Weight	Type No.
G 3/4 f	38	40	85	16	20	Standard	NBR	210	KIGL 34
G 3/4 f	93	32	85	20	19	MODY	NBR	434	SSGIL 34
G 1 f	39	40	85	18	20	Standard	NBR	180	KIGL 10

Other sizes on request.

Couplings left-closing with male thread

Thread connection	L	SW	B	L1	Passage	Typ	Seal	Weight	Type No.
G 3/4 m	73	24	85	15	19	MODY	NBR	339	SSGAL 34

Other sizes on request.

Original Standard-Rubber Rings

(☺ page 212)

Original MODY-Rubber Rings - Standard Version

(☺ page 215)

Original MODY-Rubber Rings - Old Version

(☺ page 215)

Original Spare Parts for Claw Couplings with Brass Seal

Type	L	D	D1	Material		Weight	Type No.
Brass sleeve	21	32	17	Brass	10	12.5	MOOH
Hose ring	12	28	23	NBR	100	3.2	SOOR
Steel screw M5	14	7	-	Steel zinc-pl. + yellow pass.	100	2	HOOS

All types also available coloured (powder-coated)! Surcharge 3.96 Euro/ piece



RAL 5010



RAL 6029



RAL 1004



RAL 2002

...others on request.

Ⓜ Minimum quantity per type: 100 pieces!

Claw Couplings

made of Hardened Steel, Interchangeable with Type „Atlas Copco“

- Durable, extremely robust claw coupling made of steel, additionally hardened, zinc-plated and yellow passivated (free of chrome VI), equivalent to type Atlas Copco
- With oil-resistant rubber ring GOER, on request with steam resistant rubber ring GDOR (up to +200°C), surcharge: 6,72 Euro
- Maximum bore for maximum flow rate to reach best tool performance
- Turned stem profile for perfect hose fit - Turned gasket seat, therefore 100 % leakage-proof
- High-quality coupling for compressed air supply in construction and industry

Materials

- Claw, connector: Steel hardened, zinc-plated and yellow passivated (free of chrome VI)
- Locking nut: Brass MS 58 plain
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 16 bar	-40°C – +95°C	ISO 228, NPT	42 mm	Compressed Air	10

Claw Couplings with hose barb

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 10	63	62	35	8	141	ACK 38 T
Hose i.D. 12.5	63	62	35	10.5	136	ACK 12 T
Hose i.D. 20	70	62	45	17	165	ACK 34 T
Hose i.D. 25	73	62	46	20	173	ACK 10 T

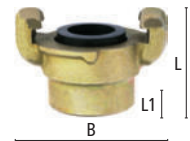
For hose clamps DIN 20039 A, type SL (☺ page 253)

Swivelling version on request.



Claw Couplings with female thread

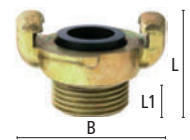
Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 f	40	62	16	15	182	ACK 38 I
G 1/2 f	40	62	16	19	203	ACK 12 I
G 3/4 f	40	62	16	20	176	ACK 34 I
NPT 3/4 f	40	62	16	20	176	ACK 34 I-NPT
G 1 f	40	62	17	20	160	ACK 10 I
NPT 1 f	40	62	17	20	155	ACK 10 I-NPT



Claw Couplings with male thread

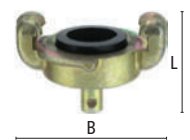
Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 m	40	62	14	11	142	ACK 38 A
G 1/2 m	40	62	14	15	152	ACK 12 A
G 3/4 m	40	62	15	19	148	ACK 34 A
NPT 3/4 m	41	62	16	19	150	ACK 34 A-NPT
G 1 m	40	62	15	20	152	ACK 10 A

Male thread sealing with PVC sealing ring type HPD and original rubber rings (☺ page 212)



Blank Ends

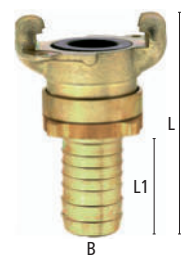
Version	L	B		Weight	Type No.
without chain	40	62	10	140	ACKO
with chain	40	62	10	150	ACKM
chain (spare part)	200	-	25	7	VKM-K



MODY-Safety-Screwing Couplings with hose barb and thread-protective ring and new sealing-ring, on both sides guided in seal holder

Hose connection	L	B	L1	Passage		Weight	Type No.
Hose i.D. 12.5	92	62	41	10	5	321	ACS 13
Hose i.D. 19	92	62	41	17	5	331	ACS 19
Hose i.D. 25	92	62	41	19	5	356	ACS 25

For hose clamps DIN 20039 A, type SL (☺ page 253)



Original MODY-Rubber Rings – Standard and Old Version

(☺ page 215)

Claw Couplings

made of Forged Brass MS 58

- "French System" with a claw distance of 42 mm
- Universal couplings made of brass MS 58
- With oil-resistant rubber ring MK 42 ER
- Turned gasket seat, therefore 100 % leakage-proof
- According to NF E 29-573
- For compressed air and water supply in construction, agriculture and industry

Materials

- Claw, connector: Brass MS 58 plain
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 10 bar	-40°C – +95°C	ISO 228	42 mm	Compressed Air, Water	10

Claw Couplings with hose barb

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 6	76	57	39.5	6	115	MKS 42-6
Hose i.D. 10	69	57	36.5	8	120	MKS 42-10
Hose i.D. 13	69	57	36.5	10	130	MKS 42-13
Hose i.D. 16	69	57	36.5	12	131	MKS 42-15
Hose i.D. 19	69	57	36.5	15	155	MKS 42-19
Hose i.D. 25	69	57	40	21	180	MKS 42-25

For hose clamps/clips type SL, type HS, ZOS, LPH (© page 397 - 401)

Claw Couplings with female thread

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/4 f	38	17	57	13.5	8	93	MKI 42-14
G 3/8 f	33	21	57	10.5	12	97	MKI 42-38
G 1/2 f	33	26	57	11.5	15	101	MKI 42-12
G 3/4 f	36	32	57	14	21	119	MKI 42-34
G 1 f	38	39	57	15	21	124	MKI 42-10
G 1 1/4 f	43	47	57	15	21	166	MKI 42-54

Claw Couplings with male thread


Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1/4 m	43	17	57	10.5	7	104	MKA 42-14
G 3/8 m	45	21	57	11	10	102	MKA 42-38
G 1/2 m	42	24	57	10	14	112	MKA 42-12
G 3/4 m	43	30	57	11	19	135	MKA 42-34
G 1 m	43	34	57	11	21	140	MKA 42-10
G 1 1/4 m	46	44	57	13	21	193	MKA 42-54

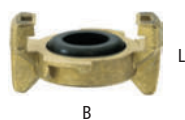
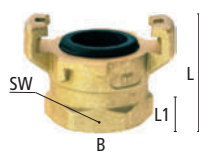
Male thread sealing with PVC sealing ring type HPD (© page 212)

Claw Couplings with blank ends

Version	L	B	Weight	Type No.
without chain	29	57	93	MKO 42

Original Rubber Ring

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Oil	10	34.5	21	NBR	-40 – +95	Air/Water	black	55°	10	5	MK 42 ER



Claw Couplings

US-Version with Bore for Safety-Clips

- Robust claw couplings made of malleable iron, US-Version, zinc-plated and yellow passivated (free of chrome VI)
- 100 % function check and sight control
- With oil-resistant rubber ring GOOR
- When coupled, can be secured against accidental opening through safety-clips DIN 11024
- US-universal coupling, common used system for compressed air supply in construction and industry

Materials

- Claw, connector: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 10 bar	-40°C – +95°C	ISO 228, NPT	41 mm	Air a.o.	10

US-Claw Couplings with hose barb and safety collar

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 10	75	62	32	6	162	SKA 11*
Hose i.D. 13	88	62	42	9	182	SKA 13
Hose i.D. 19	105	62	56	14	244	SKA 19
Hose i.D. 25	107	62	59	20	286	SKA 25

For US-hose clamps (© page 254)

*SKA 11 two parts with thread stem made of steel

US-Claw Couplings with female thread

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 3/8 f	57	27	62	13.5	15	180	KIA 38 BSP
NPT 3/8 f	57	27	62	13.5	15	187	KIA 38
G 1/2 f	57	27	62	13.5	18	173	KIA 12 BSP
NPT 1/2 f	57	27	62	13.5	18	181	KIA 12
G 3/4 f	57	36	62	15	20	195	KIA 34 BSP
NPT 3/4 f	57	36	62	15	20	201	KIA 34
G 1 f	57	42	62	15	20	208	KIA 10 BSP
NPT 1 f	57	42	62	15	20	218	KIA 10

US-Claw Couplings with male thread

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 3/8 m	56	29	62	14	9	200	KAA 38 BSP
NPT 3/8 m	64	29	62	15	9	180	KAA 38
G 1/2 m	56	29	62	14	12	210	KAA 12 BSP
NPT 1/2 m	64	29	62	20	12	190	KAA 12
G 3/4 m	64	34	62	16	17	225	KAA 34 BSP
NPT 3/4 m	70	34	62	20	17	224	KAA 34
G 1 m	68	38	62	18	20	250	KAA 10 BSP
NPT 1 m	72	38	62	23	20	260	KAA 10

US-Claw Couplings with blank end

Version	L	B	Weight	Type No.
without chain	55	62	215	UDM

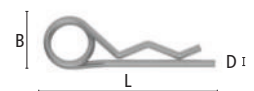
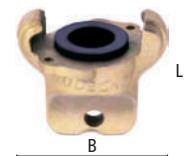
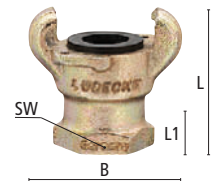
Original Rubber Ring

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Oil	10.5	34	20	NBR	-40 / +95	Compr. Air	black	50 °	100	6	GOOR

Universal Safety Clips DIN 11024

L	B	D	Material		Weight	Type No.
27	63	3	Steel zinc-plated	50	10	USC-1

Coupling not possible with claw distance of 42 mm



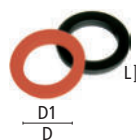
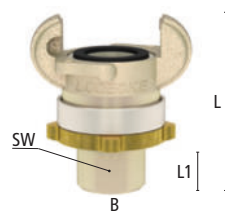
Claw Couplings

US-Version with Bore for Safety-Clips MODY-Safety-Screwing Couplings

100 %

- Easy handling
- Safe
- Leakage-proof

Coupling not possible with claw distance of 42 mm



- High-quality MODY-safety-screwing couplings, hose stem with special contour
- Reinforced thread protection ring and new sealing ring, holder embedded in coupling body
- With oil resistant rubber ring, on request with steam resistant rubber ring made of TFEP (up to +200°C)
- 100 % leakage-proof, reduces expensive air consumption
- 100 % function check and sight control
- Easy to couple, secured against accidental opening through tightening the locking nut, additional safety with safety-clips DIN 11024
- Maximum bore for maximum flow rate
- For absolutely safe compressed air supply in construction and industry

Materials

- Claw: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Connector: Steel zinc-plated and yellow passivated (free of chrome VI)
- Locking nut: Brass MS 58 plain
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 16 bar	-40°C – +95°C	ISO 228, NPT	41 mm	Compressed Air	5

US-MODY-Safety-Screwing Couplings with hose barb and safety collar

Hose connection	L	B	L1	ØCollar	Passage	Weight	Type No.
Hose i.D. 10	111	62	41	21	6.5	320	SSC 10
Hose i.D. 13	118	62	41	24	10	360	SSC 13
Hose i.D. 19	120	62	40.5	34	15	385	SSC 19
Hose i.D. 25	120	62	40.5	39	18	420	SSC 25

For US-hose clamps (© page 254)

US-MODY-Safety-Screwing Couplings with female thread


Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 3/8 f	64	24	62	13	13	250	SSCI 38
NPT 3/8 f	64	24	62	13	13	252	SSCI 38 NPT
G 1/2 f	65	24	62	15	17	280	SSCI 12
NPT 1/2 f	65	24	62	15	17	290	SSCI 12 NPT
G 3/4 f	92	32	62	20	17	420	SSCI 34
NPT 3/4 f	92	32	62	20	17	420	SSCI 34 NPT

US-MODY-Safety-Screwing Couplings with male thread

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 3/8 m	72	24	62	13	10	260	SSCA 38*
NPT 3/8 m	72	24	62	13	10	270	SSCA 38 NPT
G 1/2 m	74	24	62	14	13	260	SSCA 12*
NPT 1/2 m	74	24	62	14	13	270	SSCA 12 NPT
G 3/4 m	75	24	62	15	17	270	SSCA 34*
NPT 3/4 m	75	24	62	15	17	280	SSCA 34 NPT

*with LÜDSY- Thread sealing

Original MODY-Rubber Rings – Standard Version

Standard version											
Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Oil	4	30	21	NBR	-40 – +95	Compr. Air	black	75°	50	1.7	SGOR-N
Steam	4	30	21	TFEP	-15 – +200	Steam	red	65°	10	1.7	SDOR-N



Complete Screwing Sets, FlatLock Flat Hose Screwings, Connecting Nipples, Hose Connections



For media supply (especially for compressed air and water) in construction as well as in mining and tunnelling, the **LUDECKE** product portfolio comprises a broad range of different screwings, assembly types and matching accessories.

The screwings and fittings are extremely robust and resistant to dirt or damages. They also offer highest safety and optimum ease of use when assembling various hoses.

The appropriate version is always adjusted to the specific hose and customised.

Advantages:

- High-quality materials
- Robust, reliable, absolutely leakage-proof and durable
- Quick and easy handling
- Different sizes, versions and connection types
- Individual adjustment of the respective execution

Multifunctional Use

The different versions of this product range can be utilized in various areas and are a tidy alternative to conventional classic fittings and assembly methods.



Note: In general, the distributor of a hose line can be held liable for possible recourse claims due to personal injury and/or damage to property as well as production downtime! For this reason, we are happy to help you select the right solution for your application. Various product and safety data sheets are always available free of charge on the **LUDECKE** homepage (→ www.ludecke.com/support).

Complete Screwing Sets



Complete Screwing Sets are extremely robust fittings for construction and mining.

They are easy to use: A tapered stem with connecting nut is screwed with a nipple with cone. Taper and cone are sealing against each other without further sealing material.

Flat sealed versions can be combined with versions, that have no cone ("Atlas Copco" system).

FlatLock Flat Hose Screwings



Customers looking for a secure way to assemble flat hoses, will find the right solution with the FlatLock flat hose screwings. These fittings are characterised by easy installation and perfect ergonomics when assembling thin walled flat hoses. They can be loosened and reused at any time.

This extremely safe and reliable hose connection is available for the following coupling systems:

- MODY-Safety-Screwing Couplings DIN 3238
- Female and male thread screwings
- Complete Screwing Sets DIN 20 033

In addition to the standard range, we also manufacture flat hose screwings according to certain specifications or hose samples including assembly recommendations for crimping ferrule, safety clamp, wire or steel band.

Hot Tar Screwings



The **LUDECKE** hot tar screwings are made of steel/ malleable iron zinc-plated and yellow passivated (free of chrome VI) and are used to connect hoses to tar spraying equipment, lances, etc.

They are operated by a wing nut and a tapered stem with a safety collar.

Thread Stems and Hose Connections



Thread stems and hose connections are applied in different areas to connect or extend hose lines.

Overview of Screwings

Complete Screwing Sets

DIN 8537/ 20 033



Flat Hose Screwings

DIN 3238/ 20 033



Flat
Lock
by LÜDECKE

Hot Tar Screwings



Materials	
Tapered stem:	Steel/ Malleable iron (zinc-plated + yellow passivated)
Connecting nut:	Malleable iron (zinc-plated + yellow passivated)
Seals:	NBR
Max. Working Pressure:	PN 16/ 25 bar*
Temperature:	-40°C - + 95°C
Thread types:	ISO 228/ DIN 405
Page:	227

Materials	
Connecting nut:	Malleable iron (zinc-plated + yellow passivated)
Hose connections, squeeze ring, squeeze nut:	Steel (zinc-plated + yellow passivated)
Locking nut:	MS 58 plain
Seals:	NBR
Max. Working Pressure:	PN 16/ 25 bar*
Temperature:	-40°C - + 100°C
Thread types:	ISO 228/ DIN 405
Page:	232

Materials	
Tapered stem:	Steel (zinc-plated + yellow passivated)
Wing nut:	Malleable iron (zinc-plated + yellow passivated)
Nipple:	Steel (zinc-plated + yellow passivated)
Max. Working Pressure:	PN 25 bar
Temperature:	up to +200°C
Thread types:	ISO 228
Page:	235

*subject to temperature and assembly method

Double Nipples

Connecting Nipples

Thread Stems

Hose Connections

Thread Ferrule Screwings



Materials		Materials		Materials		Materials		Materials	
Body:	Steel (zinc-plated + yellow passivated)	Steel/ Malleable iron (zinc-plated + yellow passivated)	Steel (zinc-plated + yellow passivated)	Steel (zinc-plated + yellow passivated)	Steel (zinc-plated + yellow passivated)	Steel (zinc-plated + yellow passivated)	Steel (zinc-plated + yellow passivated)	Steel (zinc-plated + yellow passivated)	Steel (zinc-plated + yellow passivated)
Max. Working Pressure:	PN 25 bar	PN 25 bar	PN 16/ 25 bar	PN 16/ 25 bar	PN 16/ 25 bar	PN 16/ 25 bar	PN 16/ 25 bar	PN 16/ 25 bar	PN 16/ 25 bar
Thread types:	ISO 228/ DIN 405	ISO 228/ DIN 405	ISO 228/ DIN 405	-	-	-	-	ISO 228	ISO 228
Page:	234	234	236	237	237	237	237	237	237

Complete Screwing Sets

DIN 8537/20 033 with Hose Stem


- Complete screwing sets made of steel/ malleable iron zinc-plated and yellow passivated (free of chrome VI), consisting of connecting nut and tapered stem
- Complete screwing sets with safety collar and turned stem profile for perfect hose fit
- Tapered stems with cone 1:3 always with additional O-ring sealing
- Suitable for connecting nipples (☺ page 234/ 235)
- Worldwide used system for compressed air supply water, etc. in construction, mining or tunnelling

Materials

- Tapered stem: Steel/ malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Connecting nut: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Norm	Media
PN 16 / 25 bar	- 40°C – + 95°C	ISO 228 / DIN 405	DIN 8537 / 20 033	Compressed Air / Water

Complete Screwing Sets with safety collar

Hose connect.	Thread connect.	L	B	Cone	Ø Collar	Passage		Weight	Type No.
Hose i.D. 13	G 3/4 f	79	58	1:4	21	10	10	166	34/13 S
Hose i.D. 15	G 3/4 f	79	58	1:4	26	12	10	175	34/15 S
Hose i.D. 19	G 3/4 f	80	58	1:4	33	13	10	200	34/19 S
Hose i.D. 19	G 1 f	85	65	1:3	33	15	10	244	10/19 S
Hose i.D. 25	G 1 f	90	65	1:3	38	16	10	290	10/25 S
Hose i.D. 13	Rd 32x1/8 f	83	65	1:3	22	10	10	249	32/13 S
Hose i.D. 15	Rd 32x1/8 f	85	65	1:3	26	12	10	229	32/15 S
Hose i.D. 19	Rd 32x1/8 f	85	65	1:3	33	15	10	251	32/19 S
Hose i.D. 25	Rd 32x1/8 f	90	65	1:3	38	16	10	310	32/25 S
Hose i.D. 25	Rd 38x1/8 f	98	76	1:3	38	19	5	426	38/25 S
Hose i.D. 32	Rd 46x1/6 f	124	86	1:3	50	25	1	685	46/32 S
Hose i.D. 35	Rd 55x1/6 f	131	95	1:3	55	30	1	829	55/35 S
Hose i.D. 38	Rd 55x1/6 f	131	95	1:3	55	31	1	864	55/38 S
Hose i.D. 42	Rd 62x1/6 f	139	105	1:3	63	35	1	1216	62/42 S
Hose i.D. 38	Rd 75x1/6 f	140	137	1:3	55	31	1	1420	75/38 S
Hose i.D. 50	Rd 75x1/6 f	149	137	1:3	77	45	1	1725	75/50 S
Hose i.D. 53	Rd 75x1/6 f	149	137	1:3	77	45	1	1848	75/53 S
Hose i.D. 75	Rd 105x1/4 f	206	158	1:3	110	67	1	3974	105/75 S

For hose clamps DIN 20039 B, type SK (☺ page 253)

For higher temperatures and pressure we recommend steam screwings DIN EN 14423 (☺ page 340)

FlatLock Flat Hose Screwings (☺ page 232)

We also manufacture flat hose screwings according to certain specifications or hose samples including assembly recommendations for crimping ferrule, safety clamp, wire or steel band. Various types on stock!

NEW!

High pressure applications:

For products that require 40 bar to 100 bar operating pressure, please contact our expert sales team.




Connecting Nuts and Tapered Stems

DIN 8537/20 033

- Screwings with cone made of steel/ malleable iron zinc-plated and yellow passivated (free of chrome VI), consisting of connecting nut and tapered stem without safety collar
- Turned stem profile for perfect hose fit
- Tapered stems with cone 1:3 always with additional O-ring sealing
- Suitable for connecting nipples (☺ page 234/ 235)
- Worldwide used system for compressed air supply, water, etc. in construction, mining or tunnelling

Max. Working Pressure	Temperature	Media
PN 16 / 25 bar	- 40°C – + 95°C	Compressed Air / Water

Connecting Nuts made of malleable iron corresponding to →


Thread connection	L	B	Passage		Weight	Type No.
G 3/4 f	23	58	21.5	10	92	UM 34
G 1 f	28	65	23	10	133	UM 10
Rd 32x1/8 f	28	65	23	10	139	UM 32
Rd 32x1/8 f	28	65	27,5	10	129	UM 32/2
G 1 f	28	65	27,5	10	124	UM 10/2
Rd 38x1/8 f	33	76	29	10	234	UM 38 UM 38-L
Rd 46x1/6 f	36	86	35	1	301	UM 46
Rd 55x1/6 f	38	95	43	1	378	UM 55
Rd 62x1/6 f	44	105	49	1	555	UM 62
Rd 75x1/6 f	50	137	61	1	797	UM 75
Rd 105x1/4 f	60	158	89	1	1545	UM 105



Materials

- Connecting nut: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Tapered stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

Tapered stems made of steel

Hose connection	L	B	Cone		Weight	Type No.
Hose i.D. 13	79	24	1:4	10	74	T 13 B
Hose i.D. 15	79	24	1:4	10	72	T 15 B
Hose i.D. 19	80	24	1:4	10	94	T 19 B
Hose i.D. 13	80	28	1:3	10	104	ST 13 B
Hose i.D. 15	80	28	1:3	10	83	ST 15 B
Hose i.D. 19	80	28	1:3	10	100	ST 19 B
Hose i.D. 19	80	28	1:3	10	105	ST 19 B-PH*
Hose i.D. 13	80	28	1:3	10	104	ST 13 B
Hose i.D. 15	80	28	1:3	10	83	ST 15 B
Hose i.D. 19	80	28	1:3	10	100	ST 19 B
Hose i.D. 19	80	28	1:3	10	109	ST 19 B-PH*
Hose i.D. 25	85	29	1:3	10	163	ST 25 B/3
Hose i.D. 25	85	30	1:3	10	148	ST 25 B/2
Hose i.D. 25	90	33	1:3	10	164	ST 25 B
Hose i.D. 25	88,5	33	1:3	10	200	ST 25 B-PH*
Hose i.D. 32	120	40	1:3	1	355	ST 32 B
Hose i.D. 38	125	48	1:3	1	465	ST 38 B
Hose i.D. 38	110	48	1:3	1	420	ST 38 B-PH*
Hose i.D. 42	130	57	1:3	1	558	ST 42 B
Hose i.D. 50	140	68	1:3	1	896	ST 50 B
Hose i.D. 53	140	68	1:3	1	947	ST 53 B
Hose i.D. 75	189	98	1:3	1	1990	ST 75 B



For hose clamps DIN 20039 A, type SL (© page 253)

*for hydraulic crimping with ferrule (© page 245)

other types also available on request!

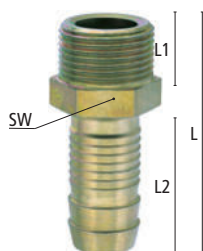
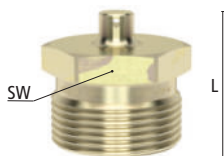
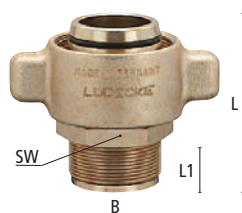
Complete Screwing Sets

DIN 20 033 with Male Thread

- Screwings with cone made of steel/ malleable iron zinc-plated and yellow passivated (free of chrome VI), consisting of connecting nut and tapered nipple
- Complete screwing set to connect with thread at machine/ tool
- Tapered nipple with cone 1:3 always with additional O-ring sealing
- Worldwide used system for compressed air supply in construction, mining and tunnelling

Materials

- Tapered stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Connecting nut: Malleable iron zinc-plated and yellow passivated
- Seals: NBR



Max. Working Pressure	Temperature	Thread	Norm	Cone	Media	
PN 16 / 25 bar	- 40°C – + 95°C	ISO 228 / DIN 405	DIN 20 033	1:3	Compressed Air	1

Complete Screwing Sets with male thread

Thread connection	L	SW	B	L1	Passage	Weight	Type No.
G 1 1/4 m - RD 55x1/6 f	87	50	95	20	32	890	55/54 A
G 2 m - RD 75x1/6 f	115	65	137	30	45	1850	75/20 A

Other dimensions on request.

Screw Caps for Complete Screwing Sets DIN 20 033

Thread connection	L	SW		Weight	Type No.
Rd 75 x 1/6 f	65	75	5	950	VS 75

With hexagon to facilitate the assembly.

Other dimensions on request.

Male thread stems with cone

Hose connect.	Thread connect.	L	SW	L1	L2	Passage		Weight	Type No.
Hose i.D. 25	Rd 38x1/8 m	75	41	23	41	20	10	210	G 38-25 T
Hose i.D. 38	Rd 55x1/6 m	108	55	32	51	33	1	650	G 55-38 T*
Hose i.D. 50	Rd 75x1/6 m	137	75	40	72	45	1	1400	G 75-50 T*
Hose i.D. 53	Rd 75x1/6 m	137	75	40	72	47	1	1450	G 75-53 T*

*with safety collar

Suitable for Complete Screwing Sets

For hose clamps DIN 20039 A, type SL (☺ page 253)

Other dimensions on request.

Complete Screwing Sets

Flat Sealing, Interchangeable with Type „Atlas Copco“

- Screwings made of steel/ malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Consisting of connecting nut and flat sealing hose stem with O-ring sealing
- Complete screwing sets with turned stem profile for perfect hose fit
- Further assembly methods, for example with crimping ferrules or safety clamps, and other dimensions on request
- Common screwing system for compressed air supply in mining and tunnelling
- Interchangeable with screwing system type "Atlas Copco"

Materials

- Hose stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Connecting nut: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

Max. Working Pressure	Temperature	Media	Thread	
PN 16 / 25 bar	- 40°C – + 95°C	Compressed Air, Water	DIN 405	1

Complete Screwing Sets flat sealing

Hose connection	Thread connection	L	B	Passage	Weight	Type No.
Hose i.D. 50	Rd 65x1/6 f	166	105	45	1300	65/50 FL
Hose i.D. 53	Rd 65x1/6 f	166	105	47	1320	65/53 FL

For hose clamps DIN 20 039 A, Typ SL (© page 253)



Single Connecting Nuts

Thread connection	L	B	Passage	Weight	Type No.
Rd 65 x 1/6 f	36	105	56.5	555	UM 65

Single Hose stems, flat sealing

Hose connection	L	Passage	Weight	Type No.
Hose i.D. 50	166	45	745	FT 50 L
Hose i.D. 53	166	48	765	FT 53 L

For hose clamps DIN 20039 A, type SL (© page 253)



Rubber rings for flat sealing hose stems

Resistance	L	D	Material	Temp. °C	Media	Shore A	Weight	Type No.
Oil	3	55	NBR	-40°C - +95°C	Compr. Air	65 °	2	ED 50 L

Double Nipples

Flat Sealing

- Nipples made of steel zinc-plated and yellow passivated (free of chrome VI)
- Suitable for complete screwings sets flat sealing (© above)
- To connect with machine/ tool for compressed air supply in mining and tunnelling

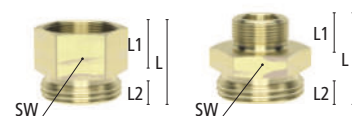
Materials

- Double Nipples: Steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	Thread	Media	
PN 25 bar	- 40°C – + 95°C	ISO 228 / DIN 405	Compressed Air	1

Double nipples, flat sealing, with male/ male thread or rather male/ female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1 1/4 m - Rd 65x1/6 m	58	65	22	20	665	N 6554 A
G 1 1/2 m - Rd 65x1/6 m	58	65	22	20	675	N 6515 A
G 2 m - Rd 65x1/6 m	58	65	22	20	680	N 6520 A
G 2 f - Rd 65x1/6 m	55	65	25	20	650	N 6520 I
Rd 75x1/6 m - Rd 65x1/6 m	77	75	41	20	1192	N 6575 A



Flat Hose Screwings

100 %

- Safe
- Ergonomic
- Fast
- Reusable

- MODY-Safety-Screwing-Couplings, thread screwings and complete screwing sets with squeeze ring screwing for an absolute safe assembly of flat hoses for compressed air 3/4 to 1 1/2 inch
- The respective version (size of squeeze ring) always has to be adapted for the flat hose used
- Please indicate exact dimensions or samples of the hose before ordering
- Can be used for compressed air supply in construction, mining and tunnelling

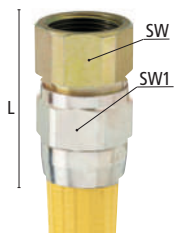
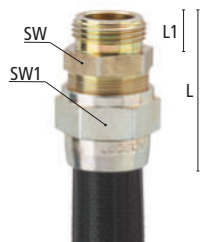
Materials

- Claw, connecting nut: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Hose connections, squeeze ring, squeeze nut: Steel zinc-plated and yellow passivated (free of chrome VI)
- Locking nut: Brass MS 58 plain
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Norm	Media
PN 16/25 bar	-40°C – +100°C*	ISO 228/DIN 405	DIN 3238/20033	Air a.o.

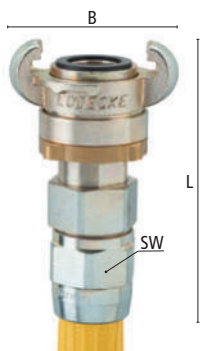
FlatLock Squeeze Ring Screwings with male thread connection

Hose connect.	Thread connect.	L	SW	L1	SW1	Passage		Weight	Type No.
Hose i.D. 19	G 3/4 m	65	32	13	32	17	5	205	G 34-19...FLTQ
Hose i.D. 25	G 1 m	65	36	14	41	22	5	290	G 10-25...FLTQ



FlatLock Squeeze Ring Screwings with female thread connection

Hose connect.	Thread connect.	L	SW	SW1	Passage		Weight	Type No.
Hose i.D. 19	G 3/4 f	60	32	32	17	5	195	GI 34-19...FLTQ
Hose i.D. 25	G 1 f	61	36	41	22	5	265	GI 10-25...FLTQ



FlatLock Squeeze Ring Screwings with MODY-Safety-Screwing Coupling DIN 3238

Hose connection	L	SW	B	Passage		Weight	Type No.
Hose i.D. 19	118	32	63	17	5	550	SSG 19...FLTQ
Hose i.D. 25	129	41	63	17	5	630	SSG 25...FLTQ



FlatLock Squeeze Ring Screwing with complete screwing Set DIN 20033

Hose connect.	Thread connect.	L	SW	B	Cone	Passage		Weight	Type No.
Hose i.D. 38	RD 55x1/6 f	150	55	95	1:3	31	1	1500	55/38...FLTQ

Can be screwed with connecting nipples (☺ page 234/ 235)

Further fittings and hose dimensions on request.

*Subject to temperature and assembly method

This hose connection is available for the following coupling systems:

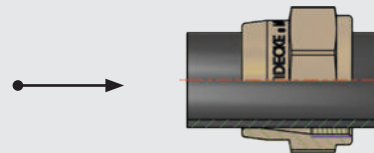
- MODY-Safety-Screwing Couplings DIN 3238
- Female and male thread screwings
- Complete Screwing Sets DIN 20 033

Attention:

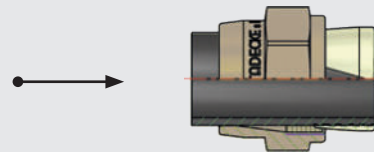
Before you start, the inner diameter as well as the wall thickness of the flat hose always have to be adjusted to guarantee an exact and safe fit of the assembly. A size chart for this purpose is available on demand.

Hose connection manual:

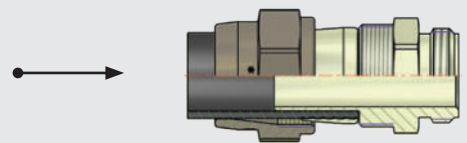
Push the squeeze nut approximately 10 cm over the hose. The part bearing the **LUDECKE** logo must be up front.



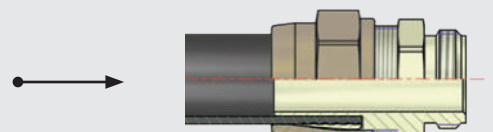
Also push the slotted squeeze ring over the straightly-cut hose with the cone up front. Make sure that the edge of the ring is flush with the hose end (labelled with the corresponding hose dimension).



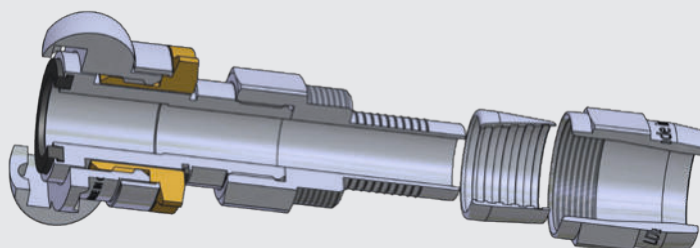
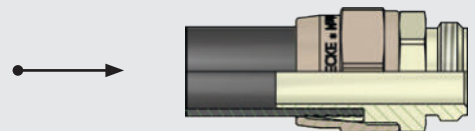
Push the screwing fitting with the stem up front into the hose until the connection thread matches the hose and squeeze ring end. The correct hose fit can be controlled at the squeeze ring slot.



Pull the squeeze nut over the squeeze ring and the hose stem, then screw the squeeze nut manually in two turns onto the fitting.



Afterwards secure the squeeze nut in a vice and screw the threaded joint with a spanner. The squeeze ring fixes the hose automatically due to the conical fit between squeeze nut and hose stem.



The FlatLock hose fittings are easy to assemble and offer a maximum of safety and ergonomics for the connection of thin-walled flat hoses - it is unlockable and reusable at any time.

Connecting Nipples

- Nipples made of steel or malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Suitable for screwings (☉ page 230 - 232) DIN 8537/20033
- Worldwide used system for compressed air supply, water etc. in construction, mining and tunnelling

Materials

- Connecting nipples: Steel or malleable iron zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Thread	Media
PN 25 bar	ISO 228 / DIN 405	Compressed Air / Water

Double Nipples DIN 8537/ 20036

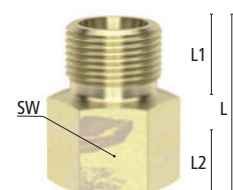
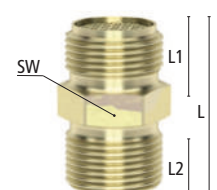
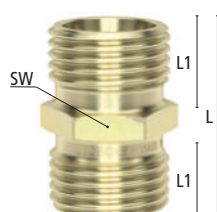
Thread connection	L	SW	L1	Cone		Weight	Type No.
2 x G 3/4 m	47	27	19	2 x 1:4	10	107	V 34 N
2 x G 3/4 m	47	32	19	2 x 1:4	10	125	V 34-32 N
2 x G 1 m	55	36	23	2 x 1:3	10	197	V 10 N
2 x Rd 32x1/8 m	55	32	23	2 x 1:3	10	163	V 32 N
2 x Rd 38x1/8 m	62	41	26	2 x 1:3	10	283	V 38 N
2 x Rd 46x1/6 m	70	46	30	2 x 1:3	1	410	V 46 N
2 x Rd 55x1/6 m	78	55	32	2 x 1:3	1	648	V 55 N
2 x Rd 62x1/6 m	88	65	36	2 x 1:3	1	869	V 62 N
2 x Rd 75x1/6 m	100	75	41	2 x 1:3	1	1490	V 75 N
2 x Rd 105x1/6 m	122	105	51	2 x 1:3	1	2990	V 105 N

Sieve Nipples and Connecting Nipples DIN 20037

Thread connection	L	SW	L1	L2	Cone	Sieve		Weight	Type No.
G 3/8 m - G 3/4 m	38	27	10	19	1:4	inner	10	84	N 38 IS
G 1/2 m - G 3/4 m	40	27	12.5	19	1:4	inner	10	85	N 23 IS
G 1/2 m - Rd 32x1/8 m	44	32	12.5	23	1:3	inner	10	126	N 82 IS
G 3/4 m - G 3/4 m	44	27	16	19	1:4	inner	10	104	N 34 IS
G 3/4 m - G 3/4 m	44	32	16	19	1:4	inner	10	120	N 34-32 IS
G 3/4 m - Rd 32x1/8 m	48	32	16	23	1:3	inner	10	135	N 32 IS
G 3/4 m - G 1 m	48	36	16	22	1:3	inner	10	173	N 341 IS
G 3/4 m - G 3/4 m	44	27	16.5	19	1:4	outer	10	100	N 34 AS
G 3/4 m - G 3/4 m	44	32	16.5	19	1:4	outer	10	120	N 34-32 AS
G 3/4 m - Rd 32x1/8 m	48	32	16.5	23	1:3	outer	10	130	N 32 AS
G 3/4 m - Rd 32x1/8 m	48	32	16	22	1:3	without	10	142	N 32 OS
G 1 m - Rd 32x1/8 m	49	36	16	23	1:3	inner	10	193	N 132 IS
G 1 m - Rd 38x1/8 m	54	41	18	26	1:3	without	10	252	N 18 OS
G 1 m - Rd 46x1/6 m	58	46	18	30	1:3	without	1	345	N 46-10 OS
G 1/4 m - Rd 46x1/6 m	58	46	18	30	1:3	without	1	331	N 46-54 OS
G 1 1/2 m - Rd 46x1/6 m	63	50	23	30	1:3	without	1	445	N 46 OS
G 1 1/4 m - Rd 55x1/6 m	63	55	18	32	1:3	without	1	536	N 55-54 OS
G 1 1/2 m - Rd 55x1/6 m	68	55	23	32	1:3	without	1	529	N 55 OS
G 2 m - Rd 55x1/6 m	70	65	25	32	1:3	without	1	860	N 55-20 OS
G 1 1/2 m - Rd 62x1/6 m	75	65	23	36	1:3	without	1	764	N 62 OS
G 2 m - Rd 62x1/6 m	75	65	25	36	1:3	without	1	820	N 62-20 OS
G 1 1/2 m - Rd 75x1/6 m	80	75	23	41	1:3	without	1	1220	N 75-15 OS
G 2 m - Rd 75x1/6 m	85	75	28	41	1:3	without	1	1196	N 75 OS
G 2 1/2 m - Rd 75x1/6 m	85	75	28	41	1:3	without	1	1387	N 75-25 OS
G 3 m - Rd 105x1/4 m	100	105	29	51	1:3	without	1	2290	N 105 OS


Connecting Nipples

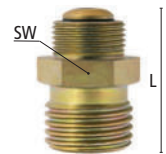
Thread connection	L	SW	L1	L2	Cone		Weight	Type No.
G 3/4 i - G 3/4 m	44	32	19	19	1:4	10	126	A 34 N
G 3/4 i - G 1 m	48	36	23	19	1:3	10	200	A 3410 N
G 3/4 i - Rd 32x1/8 m	47	32	21.5	19	1:3	10	136	A 32 N
G 3/4 i - Rd 38x1/8 m	48	41	25	19	1:3	10	270	A 38 N
G 1 i - Rd 32x1/8 m	50	41	23	22	1:3	10	206	A 1032 N
G 1 i - Rd 38x1/8 m	52	41	25	22	1:3	10	239	A 10 N



Connecting Nipples

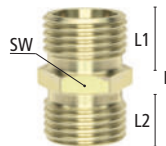
Self-locking Nipple with brass valve

Thread connection	L	SW	Cone		Weight	Type No.
G 3/4 m - Rd 32x1/8 m	49	32	1:3	10	153	SN 32 ST



Combination Nipple

Thread connection	L	SW	L1	L2	Cone		Weight	Type No.
G 1 m - G 3/4 m	51	36	23	19	1:4	10	179	V 1034 N



Hot Tar Screwings

- Hot tar screwing made of steel/ malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Easy to operate by wing nut and a tapered stem with safety collar
- For hose connection on hot tar spraying devices, hot tar lances a.o.

Materials

- Tapered stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Wing nut: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Nipple: Steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Temperature	Thread	Media	
PN 25 bar	up to +200°C	ISO 228	hot tar	1

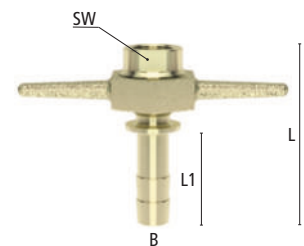
Hot Tar Screwing

Type	Connection	L	B	SW	L1	Passage	Weight	Type No.
Hot tar screwing complete	Hose i.D. 19 x G 3/4 f	112	165	32	60	15	506	HTV-SB*
Tapered stem	Hose i.D. 19, Cone 1:3					15	200	HTVT-SB*
Wing nut	G 1 1/4 f					-	207	HTVM
Nipple	G 3/4 f x G 1 1/4 m, Cone 1:3					-	99	HTVET

For hose clamps DIN 20039 B, Type SK 34 (© page 253)

Other sizes on request.

*with safety collar



Thread Stems

- Thread stems made of steel zinc-plated and yellow passivated (free of chrome VI)
- Turned stem profile for perfect hose fit
- Maximum bore for maximum flow rate
- Suitable for compressed air supply and other media in construction, industry or plant engineering

Materials

- Thread stem: Steel zinc-plated and yellow passivated (free of chrome VI)

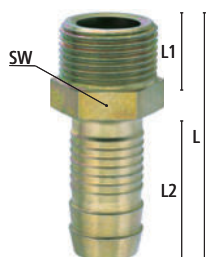
Max. Working Pressure	Thread	Media
PN 16 / 25 bar	ISO 228 / DIN 405	Compressed Air

Male thread stems without safety collar*

Hose connect.	Thread connect.	L	SW	L1	L2	Passage		Weight	Type No.	Euro
Hose i.D. 9	G 1/4 m	44	14	9	28	6	10	22	G 14-9 T	1.57
Hose i.D. 10	G 3/8 m	45	19	10	28	7	10	31	G 38-10 T	2.15
Hose i.D. 13	G 1/4 m	44	17	9	28	8.5	10	35	G 14-13 T	1.57
Hose i.D. 13	G 3/8 m	45	19	10	28	10	10	35	G 38-13 T	2.00
Hose i.D. 13	G 1/2 m	65	22	15	41	10	10	60	G 12-13 T	4.22
Hose i.D. 13	G 3/4 m	65	27	16	41	10	10	85	G 34-13 T	4.94
Hose i.D. 15	G 3/8 m	48	22	10	41	10	10	45	G 38-15 T	4.44
Hose i.D. 15	G 1/2 m	65	22	15	41	12	10	62	G 12-15 T	4.22
Hose i.D. 15	G 3/4 m	65	27	16	41	12	10	92	G 34-15 T	5.01
Hose i.D. 19	G 1/2 m	65	22	15	41	14	10	82	G 12-19 T	3.88
Hose i.D. 19	G 3/4 m	65	27	16	41	15	10	99	G 34-19 T	4.64
Hose i.D. 25	G 3/4 m	65	27	16	39	19	10	118	G 34-25 T	5.01

*PN 16 bar

For hose clamps DIN 20039 A, type SL (☹ page 253)

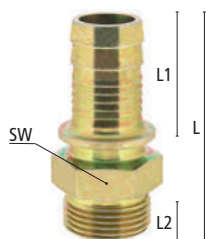


Male thread stems with safety collar**

Hose connect.	Thread connect.	L	SW	L1	L2	ØCollar	Passage		Weight	Type No.	Euro
Hose i.D. 13	G 1/2 m	73	22	40	15	22	10	10	75	G 12-13 TB	5.87
Hose i.D. 19	G 3/4 m	72	32	40	15	32	15	10	142	G 34-19 TB	6.01
Hose i.D. 19	G 1 m	74	36	40	17	32	15	10	175	G 10-19 T	7.39
Hose i.D. 25	G 1 m	80	36	41	17	36	20	10	220	G 10-25 T	7.39
Hose i.D. 25	G 1 1/4 m	90	46	48	18	39	20	5	321	G 54-25 T	14.92
Hose i.D. 32	G 1 1/4 m	92	46	48	20	45	25	5	406	G 54-32 T	14.92
Hose i.D. 38	G 1 1/2 m	100	55	51	22	53	33	1	532	G 15-38 T	16.64
Hose i.D. 42	G 1 1/2 m	100	55	51	22	54	35	1	571	G 15-42 T	17.36
Hose i.D. 50	G 2 m	125	65	72	25	64	42	1	943	G 20-50 T	38.14
Hose i.D. 53	G 2 m	125	75	72	25	74	44	1	1123	G 20-53 T	49.18
Hose i.D. 75	G 3 m	185	90	120	30	95	68	1	2033	G 30-75 T	112.57

**PN 25 bar

For hose clamps DIN 20039 B, type SK (☹ page 253)

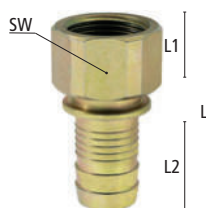


Female thread stems with safety collar**

Hose connect.	Thread connect.	L	SW	L1	L2	ØCollar	Passage		Weight	Type No.	Euro
Hose i.D. 19	G 3/4 f	71	32	19	40	32	15	10	134	G 34-19 TI	6.60
Hose i.D. 19	G 1 f	73	41	20	40	32	15	10	197	G 10-19 TI	9.04
Hose i.D. 25	G 1 f	75	41	20	41	36	20	10	227	G 10-25 TI	9.59
Hose i.D. 25	G 1 1/4 f	80	50	23	41	36	20	5	323	G 54-25 TI	15.47
Hose i.D. 32	G 1 1/4 f	86	50	23	48	45	25	5	390	G 54-32 TI	16.37

**PN 25 bar

For hose clamps DIN 20039 B, type SK (☹ page 253)



Hose Connections and Thread Ferrule Screwings


- Hose connections made of steel zinc-plated and yellow passivated (free of chrome VI)
- Simple and safe hose connection with turned stem profile
- Thread ferrule screwings can be loosened and reused at any time
- Maximum bore for maximum flow rate
- Suitable for compressed air and other media in various applications

Materials

- Connection, screwing: Steel zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Media
PN 16 / 25 bar	Compressed Air a.o.

Hose Connections DIN 20038 without safety collar*


Hose connection	L	D	Passage		Weight	Type No.	Euro
2 x Hose i.D. 10	75	11	8	10	25	SV 10 R	2.30
2 x Hose i.D. 13	80	13.5	9	10	44	SV 13 R	1.63
2 x Hose i.D. 15	105	17	12,5	10	73	SV 15 R	1.63
2 x Hose i.D. 19	105	21	16	10	93	SV 19 R	1.72
2 x Hose i.D. 25	160	26.5	22	10	166	SV 25 R	2.30
2 x Hose i.D. 32	175	33.5	27	5	351	SV 32 R	4.44
2 x Hose i.D. 38	215	40	33	5	430	SV 38 R	8.46
2 x Hose i.D. 50	225	51	45	1	670	SV 50 R	14.07
2 x Hose i.D. 53	225	54	46	1	960	SV 53 R	15.62

*PN 16 bar

For hose clamps DIN 20039 A, typ SL (© page 253)

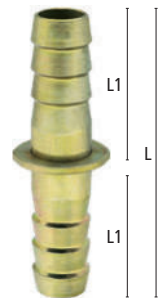


Hose Connections DIN 20038 with safety collar**


Hose connection	L	D	L1	ØCollar	Passage		Weight	Type No.	Euro
2 x Hose i.D. 13	80	13.5	38.5	25	9	10	48	SV 13 R/S	3.88
2 x Hose i.D. 15	105	17	50.5	30	12.5	10	77	SV 15 R/S	3.99
2 x Hose i.D. 19	105	21	51.5	34	16	10	107	SV 19 R/S	3.99
2 x Hose i.D. 25	160	26.5	78.5	42	22	10	170	SV 25 R/S	4.87
2 x Hose i.D. 32	175	33.5	60	50	27	5	382	SV 32 R/S	8.02
2 x Hose i.D. 38	215	40	96	56	33	5	490	SV 38 R/S	12.32
2 x Hose i.D. 50	225	51	110	78	45	1	870	SV 50 R/S	18.50
2 x Hose i.D. 53	225	54	110	78	46	1	1126	SV 53 R/S	20.36
2 x Hose i.D. 75	250	76	120	110	68	1	1811	SV 75 R/S	42.74

**PN 25 bar

For hose clamps DIN 20039 B, type SK (© page 253)



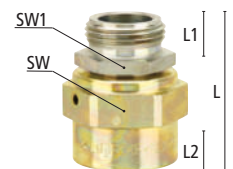
Male thread ferrule screwings (according to DIN EN 14424)*

Hose connect.	Thread connect.	L	SW	L1	SW1	L2	Passage		Weight	Type No.	Euro
Hose 13x3	G 1/2 m	50	22	12	22	27	11	10	102	G 12-133 TQ	7.74
Hose 13x5	G 1/2 m	50	22	12	22	27	11	10	104	G 12-135 TQ	7.74
Hose 15x5	G 3/4 m	52	27	13	27	30	13	10	140	G 34-155 TQ	10.56
Hose 19x5	G 3/4 m	52	27	13	27	30	17	10	170	G 34-195 TQ	10.56
Hose 19x6	G 3/4 m	52	27	13	27	30	17	10	180	G 34-196 TQ	10.56
Hose 25x5	G 1 m	58	36	14	36	36	22	10	220	G 10-255 TQ	12.02
Hose 25x7	G 1 m	58	36	14	36	36	22	10	230	G 10-257 TQ	12.02

*PN 16 bar

Assembly instructions for thread ferrules (www.ludecke.com)

Other sizes on request.



Mortar Couplings and Plugs



For pumping mortar, plaster or screed, **LUDECKE** has developed extremely sturdy and robust mortar couplings and plugs. They guarantee excellent operating safety and maximum material flow to your machine.

Mortar couplings are lever couplings - however, not compatible with standard Kamlok couplings.

Connecting follows a simple principle: female and male parts made of malleable cast iron or steel are locked by two handles. You only have to pay attention to the two different measuring systems used in the market (22 and 23.5 in size).

Advantages:

- High-quality materials
- Robust, reliable, absolutely leakage-proof and durable
- Easy and fast handling
- Swivel version for permanent floating of mostly rigid mortar hoses
- Different sizes, versions and connection types

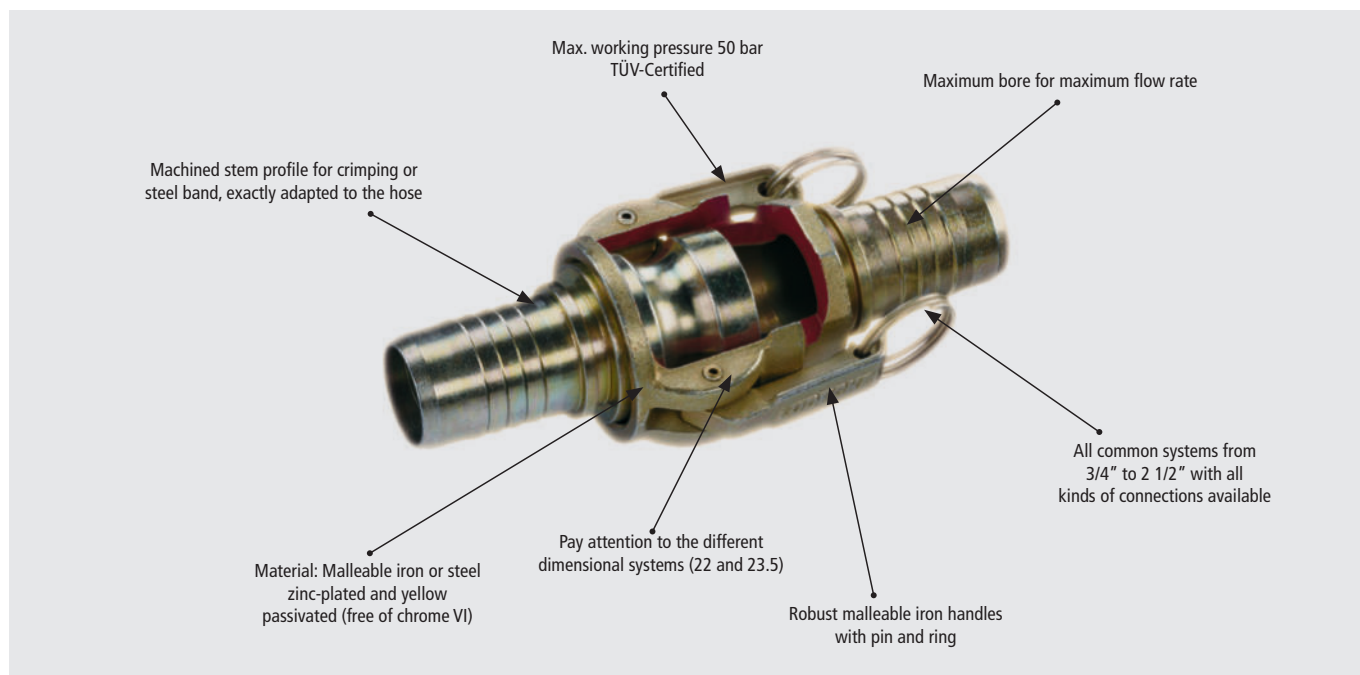
Broad Range

LUDECKE mortar couplings are available in different versions (rigid/ swivelling), in various materials (aluminium, malleable cast iron, steel) and allow for great flexibility.







Reliable Quality

At a working pressure of 50 bar, a thorough assembly on the hose barb is necessary. We recommend couplings with swivel function at least at one point of the hose line.



Overview of Mortar Couplings

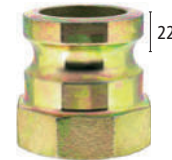
	Standard	For Hydraulic Hose Crimping	Made of Aluminium	System „Mai“
	22 and 23.5	22 and 23.5	X25	Mai
				
Materials				
Coupling:	Malleable iron (zinc-plated + yellow pass.)	Malleable iron (zinc-plated + yellow pass.)	Aluminium	Malleable iron (zinc-plated + yellow pass.)
Plug:	Steel/ Malleable iron (zinc-plated + yellow pass.)	Steel (zinc-plated + yellow pass.)	-	Steel (zinc-plated + yellow pass.)
Connector:	Steel (zinc-plated + yellow pass.)	Steel (zinc-plated + yellow pass.)	Aluminium	-
Handle:	Malleable iron (zinc-plated + yellow pass.)	Malleable iron (zinc-plated + yellow pass.)	Malleable iron (zinc-plated + yellow pass.)	Malleable iron (zinc-plated + yellow pass.)
Seals:	NBR	NBR	NBR, PTFE, PUR	NBR
Max. Working Pressure:	PN 50 bar	PN 50 bar	PN 40 bar	PN 50 bar
Temperature:	-40°C – +90°C	-40°C – +90°C	-40°C – +90°C	-40°C – +90°C
Thread types:	all types	all types	ISO 228	ISO 228
Version:	Rigid/ swivelling	Rigid/ swivelling	Rigid/ swivelling	Rigid
Page:	240	244	246	247

Mortar Couplings

made of Malleable Iron/ Steel, rigid and swivelling - Standard Version



- Couplings made of malleable iron/ steel zinc-plated and yellow passivated (free of chrome VI)
- Turned stem profile for perfect hose fit
(On request according to drawing or hose sample)
- Attention: Use same system!
- To supply mortar, concrete or screed at pumps, spraying devices, plastering machines, etc.
- Other swivelling types on request!
- Swivelling version made of three parts, lead in teflon slide, absolutely leakage-proof for long lifetime
- Permanent floating of mostly rigid mortar hoses

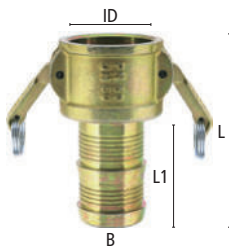


System 22
(for all type-sizes except 42)

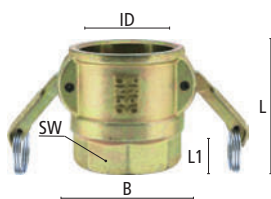
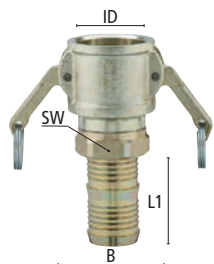


System 23.5
(only at type-sizes 35 and 50!)

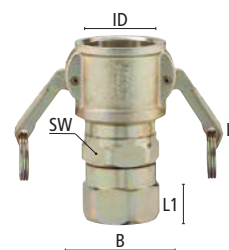
Max. Working Pressure	Temperature	Thread	TÜV-certified	Media	
PN 50 bar	-40°C – +90°C	all types	all types	Mortar/concrete	1



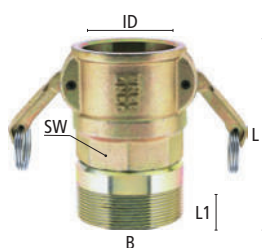
swivelling



swivelling



swivelling



										System 22	System 23.5
Couplings with hose stem (full passage)										Type No.	Type No.
Hose connect.	L	B	T-Size	ID	L1	Passage	Version	Weight			
Hose i.D. 25	120	55	25	35.5	67	20	rigid, 1 Handle	477	MST 25	Same dimension	
Hose i.D. 25	138	74	X25	42	64	25	rigid, 2 Handles	778	MST-X25	Same dimension	
Hose i.D. 35	132	77	35	51	75	29	rigid, 2 Handles	795	MST 35	MST 35-N	
Hose i.D. 35	152	77	35	51	68	30	swivelling, 2 Handles	970	MST 35-DR	MST 35-DR-N	
Hose i.D. 38	146	77	35	51	64	33	rigid, 2 Handles	903	MST 38/35	MST 38/35-N	
Hose i.D. 42	144	84	42	54	67	38	rigid, 2 Handles	960	MST 42**	Same dimension	
Hose i.D. 50	140	94	50	64	83	43	rigid, 2 Handles	1195	MST 50	MST 50-N	
Hose i.D. 65	185	105	65	74	98	56	rigid, 2 Handles	2172	MST 65*	Same dimension	

Couplings with hose stem (reduced passage)										Type No.	Type No.
Hose connect.	L	SW	B	T-Size	ID	L1	Passage	Version	Weight		
Hose i.D. 19	122	41	55	25	35.5	50	16	rigid, 1 Handle	512	MST 25/19 R	Same dimension
Hose i.D. 19	125	41	74	X25	42	50	16	rigid, 2 Handles	760	MST-X25/19 R	Same dimension
Hose i.D. 25	138	50	77	35	51	64	24	rigid, 2 Handles	783	MST 35/25 R	MST 35/25 R-N
Hose i.D. 35	160	70	94	50	64	77	30	rigid, 2 Handles	1495	MST 50/35 R	MST 50/35 R-N
Hose i.D. 42	160	70	94	50	64	77	38	rigid, 2 Handles	1510	MST 50/42 R	MST 50/42 R-N

Couplings with female thread										Type No.	Type No.
Hose connect.	L	SW	B	T-Size	ID	L1	Passage	Version	Weight		
G 1 f	70	41	55	25	35.5	18	24	rigid, 1 Handle	410	MIG 10/25	Same dimension
G 1 f	73,5	41	74	X25	42	19	25	rigid, 2 Handles	652	MIG 10-X25	Same dimension
G 1 f	74	50	77	35	51	19	30	rigid, 2 Handles	770	MIG 10/35	MIG 10/35-N
G 1 1/4 f	74	50	77	35	51	19	35	rigid, 2 Handles	648	MIG 54/35	MIG 54/35-N
G 1 1/4 f	125	50	77	35	51	23	33	swivelling, 2 Handles	1170	MIG 54/35-DR	MIG 54/35-N-DR
G 1 1/2 f	74	56	77	35	51	19	35	rigid, 2 Handles	766	MIG 15/35	MIG 15/35-N
G 1 1/2 f	66	60	84	42	54	19	38	rigid, 2 Handles	730	MIG 15/42**	Same dimension
G 2 f	79	70	94	50	64	26	50	rigid, 2 Handles	990	MIG 20/50	MIG 20/50-N
G 2 f	135	70	94	50	64	25	43	swivelling, 2 Handles	1550	MIG 20/50-DR	MIG 20/50-DR-N
G 2 1/2 f	81	84	105	65	74	26	58	rigid, 2 Handles	1027	MIG 25/65*	Same dimension

Couplings with male thread										Type No.	Type No.
Hose connect.	L	SW	B	T-Size	ID	L1	Passage	Version	Weight		
G 1 m	91	41	55	25	35.5	17	24	rigid, 1 Handle	485	MAG 10/25	Same dimension
G 1 m	90	41	74	X25	42	16	25	rigid, 2 Handles	735	MAG 10-X25	Same dimension
G 1 1/4 m	93	50	77	35	51	19	33	rigid, 2 Handles	793	MAG 54/35	MAG 54/35-N
G 1 1/2 m	98	60	84	42	54	22	38	rigid, 2 Handles	935	MAG 15/42**	Same dimension
G 2 m	113	70	94	50	64	25	47	rigid, 2 Handles	1420	MAG 20/50	MAG 20/50-N
G 2 1/2 m	119	84	94	50	64	25	50	rigid, 2 Handles	1620	MAG 25/50	MAG 25/50-N

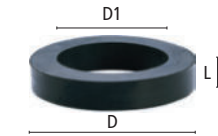
*max. working pressure for type-size 65 PN 25 bar

**type-size 42 system 17.5 derived from DIN EN 14420-7, DN 40

Mortar Couplings

Materials

- Coupling, handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Hose stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

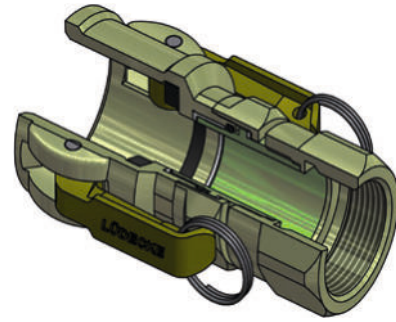


O-ring made of NBR
55° Shore A



Handle with safety-ring
and slotted pin made of malleable
iron zinc-plated and yellow
passivated (free of chrome VI)

Suitable spare parts
(Packing Unit: 10 pcs.)



L	D	D1	Weight	Type No.	Weight	Type No.
6	36	24.5	5	MDR 25	60	MNH-628
6	43.5	28.5	5	MDR-X25	60	MNH-630
6	53.5	36.5	5	MDR 35	60	MNH-628
6	53.5	36.5	5	MDR 35	60	MNH-628
6	53.5	36.5	5	MDR 35	60	MNH-628
6.5	55	41	6	MDR 42	60	MNH-628
6	67	51	7	MDR 50	60	MNH-636
6.3	76	61	10	MDR 65	60	MNH-636

L	D	D1	Weight	Type No.	Weight	Type No.
6	36	24.5	5	MDR 25	60	MNH-628
6	43.5	28.5	5	MDR-X25	60	MNH-630
6	53.5	36.5	5	MDR 35	60	MNH-628
6	67	51	7	MDR 50	60	MNH-636
6	67	51	7	MDR 50	60	MNH-636

L	D	D1	Weight	Type No.	Weight	Type No.
6	36	24.5	5	MDR 25	60	MNH-628
6	43.5	28.5	5	MDR-X25	60	MNH-630
6	53.5	36.5	5	MDR 35	60	MNH-628
6	53.5	36.5	5	MDR 35	60	MNH-628
6	53.5	36.5	5	MDR 35	60	MNH-628
6	53.5	36.5	5	MDR 35	60	MNH-628
6.5	55	41	6	MDR 42	60	MNH-628
6	67	51	7	MDR 50	60	MNH-636
6	67	51	7	MDR 50	60	MNH-636
6.3	76	61	10	MDR 65	60	MNH-636

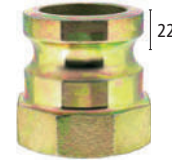
L	D	D1	Weight	Type No.	Weight	Type No.
6	36	24.5	5	MDR 25	60	MNH-628
6	43.5	28.5	5	MDR-X25	60	MNH-630
6	53.5	36.5	5	MDR 35	60	MNH-628
6.5	55	41	6	MDR 42	60	MNH-628
6	67	51	7	MDR 50	60	MNH-636
6	67	51	7	MDR 50	60	MNH-636

Mortar Plugs

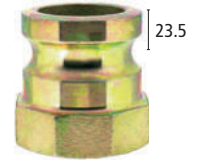
made of Malleable Iron/ Steel, rigid and swivelling - Standard Version



- Plugs made of malleable iron/ steel zinc plated and yellow passivated (free of chrome VI)
- Turned stem profile for perfect hose fit
(On request according to drawing or hose sample)
- Attention: Use same system!
- To supply mortar, concrete or screed at pumps, spraying devices, plastering machines, etc.
- Other swivelling types on request!
- Swivelling version made of three parts, lead in teflon slide, absolutely leakage-proof for long lifetime
- Permanent floating of mostly rigid mortar hoses



System 22
(for all type-sizes except 42)



System 23.5
(only at type-sizes 35 and 50!)

Max. Working Pressure	Temperature	Thread	TÜV-certified	Media	
PN 50 bar	-40°C – +90°C	ISO 228	all types	Mortar/ concrete	1

							System 22	System 23.5
Plugs with hose stem (full passage)							Type No.	Type No.
Hose connect.	L	T-Size	AD	L1	Passage	Version	Weight	Type No.
Hose i.D. 25	110	25	35	64	20	rigid	270	VST 25
Hose i.D. 25	120	X25	41	65	24	rigid	385	VST-X25
Hose i.D. 25	125	X25	41	60	24	swivelling	420	VST-X25-DR
Hose i.D. 35	120	35	49.5	70	30	rigid	515	VST 35
Hose i.D. 35	146	35	49.5	68	30	swivelling	740	VST 35-DR
Hose i.D. 38	120	35	49.5	70	33	rigid	470	VST 38/35
Hose i.D. 42	120	42	53	77	38	rigid	450	VST 42**
Hose i.D. 50	140	50	63	77.5	42	rigid	925	VST 50
Hose i.D. 50	170	50	63	82	43	swivelling	1230	VST 50-DR
Hose i.D. 65	156	65	73	98	56	rigid	1352	VST 65*

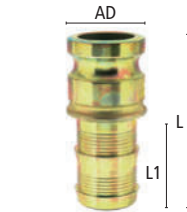
Plugs with hose stem (reduced passage)							Type No.	Type No.
Hose connect.	L	T-Size	AD	L1	Passage	Version	Weight	Type No.
Hose i.D. 19	100	X25	41	50	16	rigid	325	VST-X25/19R
Hose i.D. 25	115	35	49.5	64	20	rigid	545	VST 35/25 R
Hose i.D. 35	121	50	63	70	30	rigid	830	VST 50/35 R
Hose i.D. 42	121	50	63	70	38	rigid	757	VST 50/42 R

Plugs with female thread							Type No.	Type No.
Thread connect.	L	SW	T-Size	AD	L1	Passage	Version	Weight
G 1 f	67	41	25	35	15	20	rigid	280
G 1 f	67	41	X25	41	15	25	rigid	345
G 1 f	106	41	X25	41	21	23	swivelling	610
G 1 1/4 f	67	50	X25	41	16	25	rigid	386
G 1 f	63	50	35	49.5	20	30	rigid	521
G 1 1/4 f	68	50	35	49.5	16	33	rigid	461
G 1 1/4 f	120	50	35	49.5	23	33	swivelling	840
G 1 1/2 f	68	55	35	49.5	19	33	rigid	453
G 2 f	74	70	35	49.5	20	33	rigid	665
G 1 1/2 f	62	55	42	53	16	38	rigid	420
G 1 1/4 f	64	65	50	63	22	35	rigid	820
G 1 1/2 f	64	65	50	63	22	44	rigid	678
G 2 f	71	70	50	63	20	45	rigid	620
G 2 f	130	70	50	63	25	43	swivelling	1040
G 2 1/2 f	78	85	50	63	25	45	rigid	960
G 2 1/2 f	78	85	65	73	25	56	rigid	999

*max. working pressure for type-size 65 PN 25 bar

**type-size 42 system 17.5 derived from DIN EN 14420-7, DN 40

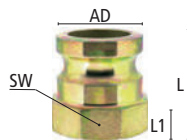
Other swivelling types on request



swivelling

swivelling

swivelling



swivelling

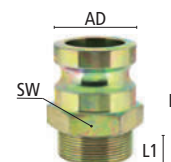
swivelling

swivelling

Materials

- Plug: Steel/ malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Screwing stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Coupling, handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

									System 22	System 23.5
Plugs with male thread										
Thread connect.	L	SW	Type-Size	AD	L1	Version	Passage	Weight	Type No.	Type No.
G 1 m	76	41	25	35	17	rigid	20	356	VAG 10/25	Same dimension
G 1 m	76	41	X25	41	17	rigid	24	382	VAG 10-X25	Same dimension
G 1 1/4 m	83	50	35	49.5	20	rigid	33	527	VAG 54/35	VAG 54/35-N
G 1 1/2 m	77	55	42	53	20	rigid	38	525	VAG 15/42**	Same dimension
G 2 m	90	65	50	63	25	rigid	45	950	VAG 20/50	VAG 20/50-N



Plugs on both sides – system-reducing plug							
Type-Size	L	AD	AD1	Passage	Weight	Type No.	Type No.
X25 - 25	90	41	35	20	448	VR X25/25	Same dimension
35 - 25	97	49.5	35	20	654	VR 35-25	VR 35-N-25
35 -X25	100	49.5	41	25	690	VR 35-X25	VR 35-N-X25
42 - X25	90	53	41	25	620	VR 42/X25**	Same dimension
42 - 35	90	53	49.5	33	650	VR 42/35**	VR 42/35-N
50 - X25	100	63	41	25	955	VR 50-X25	VR 50-N-X25
50 - 35	100	63	49.5	33	955	VR 50-35	VR 50-N/35-N
50 - 42	95	63	53	38	983	VR 50/42**	VR 50-N/42



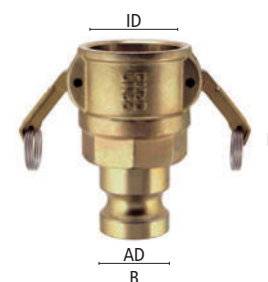
Screwing stems for female thread couplings and plugs							
Hose connect.	Thread connect.	L	L1	L2	Passage	Weight	Type No.
Hose i.D. 19	G 1 m	70	18	50	16	106	MST-X25/19T
Hose i.D. 25	G 1 m	83.5	18	64	24	128	MST-X25T
Hose i.D. 35	G 1 1/4 m	91	19	70	30	236	MST-35T
Hose i.D. 38	G 1 1/4 m	91	20	70	33	210	MST-38/35T
Hose i.D. 35	G 2 m	107	27	77	30	506	MST-50/35T
Hose i.D. 42	G 1 1/2 m	97	19	77	38	259	MST-42T
Hose i.D. 42	G 2 m	106	26	77	38	428	MST-50/42T
Hose i.D. 50	G 2 m	110	26	82	42	510	MST-50T
Hose i.D. 65	G 2 1/2 m	130	25	98	56	1145	MST-65T



Couplings with plug – system-reducing-adapters								
Type-Size	L	B	ID	AD	Passage	Weight	Type No.	Type No.
X25 - 25	132	74	42	35	20	993	MSA-X25/25	Same dimension
35 - X25	133	77	51	41	24	1154	MSA 35/X25	MSA 35-N/X25
42 - 35	135	84	54	49	33	1270	MSA 42/35**	MSA 42/35-N
50 - 35	133	94	64	49	33	1580	MSA 50/35	MSA 50-N/35-N
50 - 42	133	94	64	53	38	1585	MSA 50/42**	MSA 50-N/42

*handles and seals as spare parts (© page 241)

**type-size 42 system 17.5 derived from DIN EN 14420-7, DN 40

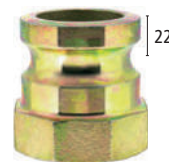


Mortar Couplings and Plugs

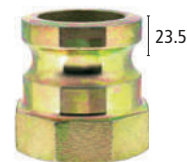
made of Malleable Iron/ Steel, rigid and swivelling, for Hydraulic Hose Crimping



- For hydraulic hose crimping with ferrules made of steel
- Safe, clean and unremovable connection of hose and coupling
- Couplings and Plugs made of malleable iron/ steel zinc-plated and yellow passivated (free of chrome VI)
- Turned stem profile for perfect hose fit
- Stem profiles, ferrules and crimping dimensions for special hoses on request according to drawings or hose samples
- Swivelling version made of three parts, lead in teflon slide, absolutely leakage-proof for long lifetime
- Permanent floating of mostly rigid mortar hoses

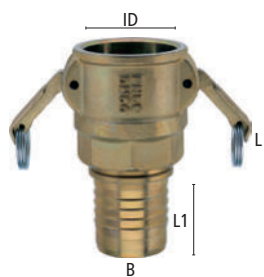


System 22
(for all type-sizes except 42)



System 23.5
(only at type-sizes 35 and 50!)

Max. Working Pressure	Temperature	Thread	TÜV-certified	Media	
PN 50 bar	-40°C – +90°C	ISO 228	all types	Mortar/concrete	1



									System 22	System 23.5
Couplings with hose stem (full passage)									Type No.	Type No.
Hose connect.	L	B	Type-Size	ID	Passage	Version	Ferrule	Weight		
Hose 25x7	125	55	25	35.5	24	rigid, 1 Handle	PH-X25	540	MSTP 25*	Same dimension
Hose 25x7	128	74	X25	42	24	rigid, 2 Handles	PH-X25	780	MSTP-X25	Same dimension
Hose 35x7	134	77	35	51	30	rigid, 2 Handles	PH-35	910	MSTP 35	MSTP 35-N
Hose 38x7	135	77	35	51	33	rigid, 2 Handles	PH-38	910	MSTP 38/35	MSTP 38/35-N
Hose 42x7	127	84	42	54	38	rigid, 2 Handles	PH-42	974	MSTP 42**	Same dimension
Hose 50x9	145	94	50	64	44	rigid, 2 Handles	PH-50	1480	MSTP 50	MSTP 50-N

Couplings with hose stem (reduced passage)									Type No.	Type No.
Hose connect.	L	B	Type-Size	ID	Passage	Version	Ferrule	Weight		
Hose 19x6	125	74	X25	42	15	rigid, 2 Handles	PH-19	780	MSTP-X25/19R	Same dimension
Hose 25x7	129	77	35	51	24	rigid, 2 Handles	PH-X25	870	MSTP 35/25 R	MSTP 35/25 R-N
Hose 35x7	140	94	50	64	30	rigid, 2 Handles	PH-35	1480	MSTP 50/35 R	MSTP 50/35 R-N



Plugs with hose stem (full passage)											
Hose connect.	L	SW	T-Size	AD	L1	Pass.	Version	Ferrule	Weight	Type No.	Type No.
Hose 25x7	100	-	25	35.5	44	20	rigid	PH-X25	305	VSTP 25	Same dimension
Hose 25x7	104	-	X25	41	44	24	rigid	PH-X25	339	VSTP-X25	Same dimension
Hose 25x7	115	41	X25	41	45.5	24	swivelling	PH-X25 DR	380	VSTP-X25-DR	Same dimension
Hose 35x7	107	-	35	49.5	50	30	rigid	PH-35	522	VSTP 35	VSTP 35-N
Hose 35x7	135	50	35	49.5	50	30	swivelling	PH-35 DR	740	VSTP 35-DR	VSTP 35-N-DR
Hose 38x7	107	-	35	49.5	50	33	rigid	PH-38	472	VSTP 38/35	VSTP 38/35-N
Hose 42x7	106	-	42	54	50	38	rigid	PH-42	475	VSTP 42**	Same dimension
Hose 50x9	113	-	50	63	55	44	rigid	PH-50	758	VSTP 50	VSTP 50-N
Hose 50x9	145	65	50	63	55	43	swivelling	PH-50 DR	1020	VSTP 50-DR	VSTP 50-N-DR

Plugs with hose stem (reduced passage)										
Hose connect.	L	Type-Size	ID	L1	Passage	Version	Ferrule	Weight	Type No.	Type No.
Hose 19x6	95	25	35.5	40	15	rigid	PH-19	238	VSTP 25/19 R	Same dimension
Hose 19x6	100	X25	41	40	15	rigid	PH-19	345	VSTP-X25/19R	Same dimension
Hose 25x7	102	35	49.5	45	24	rigid	PH-X25	490	VSTP 35/25 R	VSTP 35/25 R-N
Hose 35x7	107	50	63	50	30	rigid	PH-35	820	VSTP 50/35 R	VSTP 50/35 R-N
Hose 42x7	108	50	63	45	38	rigid	PH-42	741	VSTP 50/42 R	VSTP 50/42 R-N

Other swivelling types on request

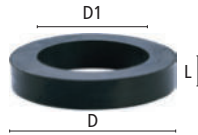
*type-size 25 with one handle

**type-size 42 system 17.5 derived from DIN EN 14420-7, DN 40

Mortar Couplings and Plugs

Materials

- Coupling, handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Plug, hose stem: Steel zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR



Seals of NBR
55° Shore A



Handle with safety-ring and
slotted pin of malleable
iron zinc-plated and yellow
passivated (free of chrome VI)

Suitable spare parts
(Packing Unit: 10 pcs.)

L	D	D1	Weight	Type No.	Weight	Type No.
6	36	24.5	5	MDR 25	60	MNH-628
6	43.5	28.5	5	MDR-X25	60	MNH-630
6	53.5	36.5	5	MDR 35	60	MNH-628
6	53.5	36.5	5	MDR 35	60	MNH-628
6.5	55	41	6	MDR 42	60	MNH-628
6	67	51	7	MDR 50	60	MNH-636

L	D	D1	Weight	Type No.	Weight	Type No.
6	43.5	28.5	5	MDR-X25	60	MNH-630
6	53.5	36.5	5	MDR 35	60	MNH-628
6	67	51	7	MDR 50	60	MNH-636

Crimping Ferrules made of turned steel for hydraulic crimping (inner profile exactly suitable to hose stem profile)

Hose connect.	L	D	Type-size	D1	D2	Version	Weight	Type No.
Hose 19x6	40	38	19/25	31.5	24.5	rigid	102	PH-19
Hose 25x7	50	50	X25	41	33	rigid	218	PH-X25
Hose 25x7	50	50	X25	41	31.3	swivelling	220	PH-X25 DR
Hose 35x7	55	58	35	49	42.5	rigid	275	PH-35
Hose 35x7	55	58	35	49	41	swivelling	280	PH-35 DR
Hose 38x7	55	61	35	53	45.5	rigid	259	PH-38
Hose 42x7	55	65	42	56	50.5	rigid	313	PH-42
Hose 50x9	60	75	50	68.5	59.5	rigid	302	PH-50
Hose 50x9	60	75	50	68.5	57	swivelling	310	PH-50 DR



Screwing Stems for hydraulic crimping

Hose connect.	Thread connect.	L	D	L1	L2	Passage	Ferrule	Weight	Type No.
Hose 19x6	G 1 m	69.5	24	40	18	15	PH-19	125	MSTP-X25/19T
Hose 25x7	G 1 m	73.5	32.5	45	18	24	PH-X25	120	MSTP-X25T
Hose 35x7	G 1 1/4 m	80	42	50	19	30	PH-35	218	MSTP-35T
Hose 38x7	G 1 1/4 m	80	45	50	19	33	PH-38	223	MSTP-38/35T
Hose 35x7	G 2 m	86	42	50	24	30	PH-35	526	MSTP-50/35T
Hose 42x7	G 1 1/2 m	86	50	50	20	38	PH-42	246	MSTP-42T
Hose 42x7	G 2 m	87	50	50	25	38	PH-42	452	MSTP-50/42T
Hose 50x9	G 2 m	91	59	55	25	41	PH-50	497	MSTP-50T



Mortar Couplings

made of Aluminium, Type Size X25, rigid and swivelling



- Couplings made of aluminium, optional rigid or swivelling
- Mainly used at the spraying device
- 60 % weight reduction compared to version made of malleable iron, therefore essentially easier operation in continuous use
- Swivelling version made of three parts, lead in teflon slide, absolutely leakage-proof for long lifetime
- Swivelling version allows permanent floating of mostly rigid mortar hoses for much easier handling in the respective application

Materials

- Coupling: Aluminium
- Handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR, PTFE, PUR*

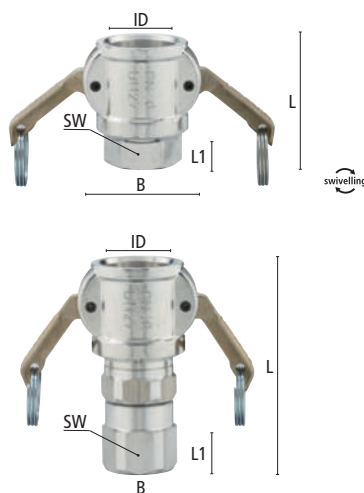
Max. Working Pressure	Temperature	Thread	System	TÜV-certified	Media	
PN 40 bar	-40°C – +90°C	ISO 228	X25	all types	Mortar/concrete	1

Couplings with female thread

Thread connection	L	SW	B	Type-Size	ID	L1	Passage	Version	Weight	Type No.
G 1 f	72	41	70	X25	42	19	25	rigid	290	MIG 10-X25A
G 1 f	120	41	70	X25	42	21	23	swivelling	405	MIG 10-X25ADR*

Rubber rings Type No. MDR-X25 and handles Type No. MNH-630 (© page 245)

*Female thread sealing ring made of material polyurethane



Mortar Couplings

made of Malleable Iron/ Steel - Interchangeable with System „Mai“

Materials

- Coupling, handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Plug: Steel zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Media	
PN 50 bar	-40°C – +90°C	ISO 228	Mortar/concrete	1

Coupling with female thread and 1 handle

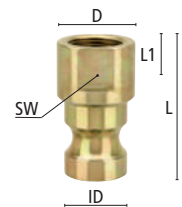
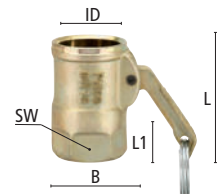
Thread connection	L	SW	B	ID	L1	Passage	Weight	Type No.
G 1 f	70	41	55	38	16	25	375	MIG 10-MA

Rubber rings, type no. EDR-100-BU (☺ page 338)

Plug with female thread

Thread connection	L	SW	D	ID	L1	Passage	Weight	Type No.
G 1 f	80	41	46	37.5	18.5	25	405	VIG 10-MA

For hose connection use screwing stems for steel band (☺ page 243) or crimping ferrules (☺ page 245)



Sandblast Couplings



In blast machines and cabins as well as in stationary and mobile blast tools you usually work with sandblast couplings and nozzles holders.

This system is similar to the claw coupling - but it offers a claw distance with 58 mm. The head dimensions are always identical and interchangeable.

Advantages:

- High-quality materials
- Robust, reliable and durable
- Simple and fast handling
- Increased safety due to various safety systems
- Different sizes and connection types
- Matching nozzle holder and sandblast throttle valve

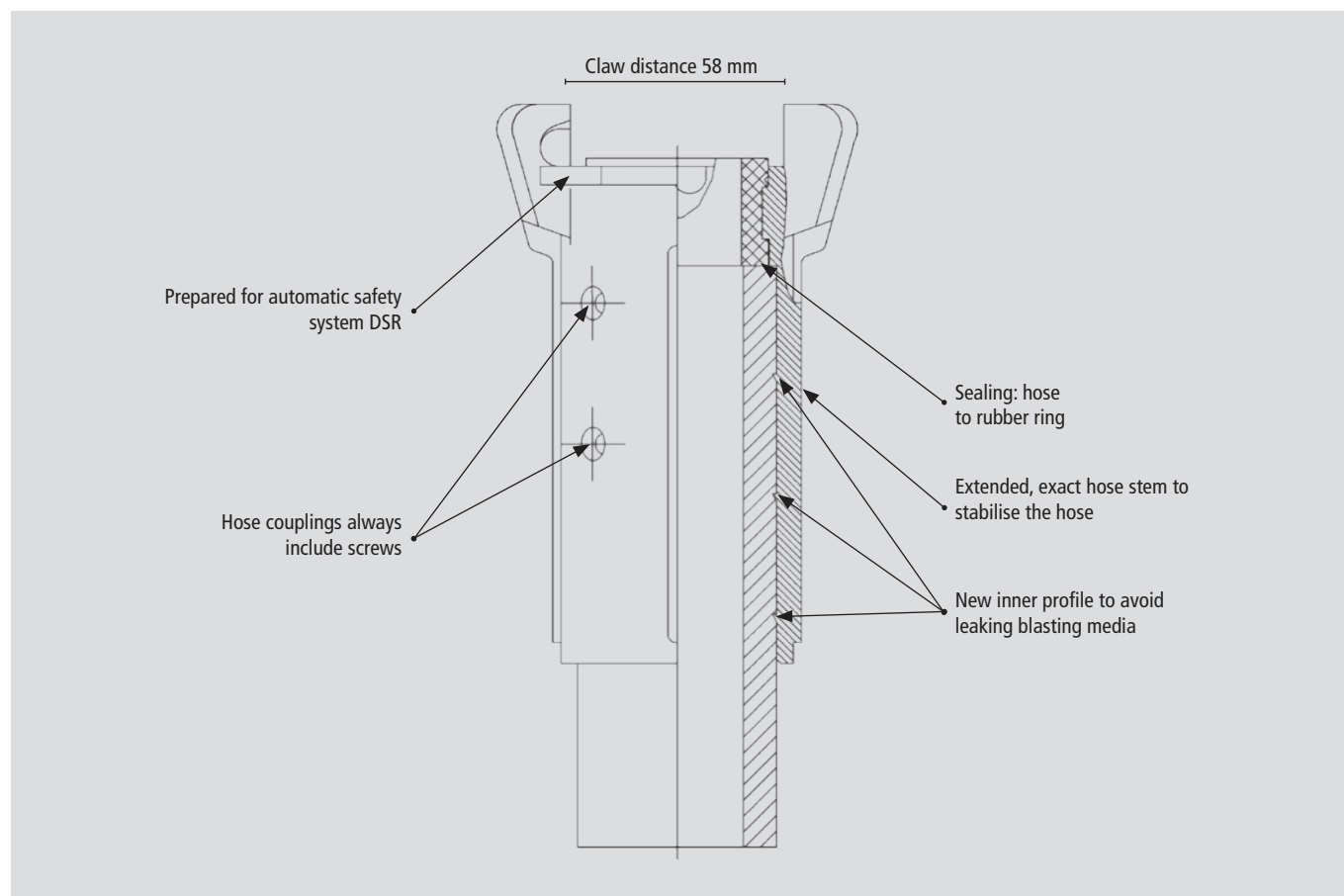
Reliable Connections for Aggressive Abrasive Media

In the case of sandblast couplings, the hoses are assembled in the coupling - they are fixed from the outside by means of holding screws. This prevents direct contact and faster abrasion of the fittings by aggressive blasting media.

It is also important to choose safety systems (DSR) in coupled mode.








Tried and Tested Design for Best Functionality



Two Materials - One Quality Promise

LUDECKE sandblast couplings are available in two materials. The robust malleable cast iron couplings are often applied in extreme conditions. The nylon couplings, on the other hand, are chosen for their light weight. The range also includes nozzle holders and sandblast throttle valves.

	Sandblast Coupling Malleable Iron	Sandblast Coupling Nylon	Nozzle Holder Aluminium	Nozzle Holder Nylon	Sandblast Throttle Valve
					
Materials					
Body:	Malleable iron (zinc-pl. + yellow pass.)	Nylon	Aluminium	Nylon	Malleable iron (zinc-pl. + yellow pass.)
Seals:	NBR	NBR	NBR	NBR	-
Throttle:	-	-	-	-	Steel hardened
Handle:	-	-	-	-	Malleable iron (zinc-pl. + yellow pass.)
Max. Working Pressure:	PN 12 bar	PN 12 bar	PN 12 bar	PN 12 bar	PN 10 bar
Temperature:	up to + 100°C	up to + 100°C	up to + 100°C	up to + 100°C	- 15°C - + 80°C
Thread types:	ISO 228/ Coarse thread	ISO 228/ Coarse thread	ISO 228/ Coarse thread	ISO 228/ Coarse thread	NPT
Claw distance:	58 mm	58 mm	-	-	-
Page:	250	251	250	251	251

Sandblast Couplings and Nozzle Holders

made of Malleable Iron/ Aluminium

- Sandblast couplings made of malleable iron zinc-plated and yellow passivated (free of chrome VI) or nylon
- Nozzle holders made of aluminium or nylon
- Hose couplings and nozzle holders always with screws
- For your own security, we recommend in all cases to use our safety-clip USC-1 and for all types 'TN' to use the automatic safety system DSR (for nylon couplings always inclusive)
- Types 'TN' with sealing hose to gasket and extended stem with new inner profile to avoid leaking blasting media
- To be used at blasting machines and cabins, stationary and mobile blast tools

Materials

- Couplings: Malleable iron zinc-plated and yellow passivated (free of chrome VI) or nylon
- Nozzle Holder: Aluminium or nylon
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 12 bar	up to +100°C	ISO 228 / Coarse thread	58 mm	Blasting media	1



Couplings made of malleable iron with hose connection

Hose connection	L	B	Weight	Type No.
Hose 19x6	100	63	900	SS 19 T*
Hose 25x7	93	87	481	SS 25 T
Hose 32x8	92	87	570	SS 32 T
Hose 38x9	129	87	784	SS 38 T
Hose 40x10	150	87	893	SS 40 T

*KIG 54 (claw distance 42 mm) with screwed-in steel pipe



Couplings made of malleable iron with female thread

Thread connection	L	B	L1	Weight	Type No.
G 1 1/4 f	62	87	28.5	509	SK 38 TN
G 1 1/4 f	55	87	27	392	SK 38 T
G 1 1/2 f	62	87	28.5	464	SK 38/15 TN
G 1 1/2 f	55	87	27	340	SK 38/15 T
Coarse thread 50	62	87	27	448	SK 50 TN
Coarse thread 50	55	87	29.5	324	SK 50 T
G 2 f	84	87	42.5	550	SK 60 T



Original Rubber Ring for couplings made of malleable iron

Syst.	Resistance	L	D	D1	Material	Temp.°C	Colour	Shore A		Weight	Type No.
...T	Oil/ Air	10.5	48.5	31	NBR	-40 – +95	black	60°	10	11	SKD
...TN	Oil/ Air	27	44	31	NBR	-40 – +95	black	60°	10	20	SKD-1



Nozzle Holders made of aluminium with female thread

Hose connection	Thread connection	L	D	L1	Weight	Type No.
Hose 32x8	G 1 1/4 f	130	57	28.5	248	SD 32-32 A
Hose 32x8	Coarse thread 50	130	57	28.5	231	SD 50-32 A

Original Spare Parts for couplings and nozzle holders

Typ	Material	Characteristics	L	B		Weight	Type No.
Screw	Steel zinc-plated	rec.head 4.2 x 13	-	-	50	1	SHS
Safety Clip DIN 11024	Steel zinc-plated	wire Ø 3	63	27	50	10	USC-1
Automat. Safety System	Steel zinc-plated	wire Ø 2	-	-	10	6	DSR

Sandblast Couplings and Nozzle Holders

made of Nylon

Couplings made of Nylon with hose connection

Hose connection	L	B	Weight	Type No.
Hose 19x7	110	51	193	CQP-3/4
Hose 25x7	110	51	165	CQP-1
Hose 32x8	136	60	222	CQP-2
Hose 38x9	136	67	244	CQP-3
Hose 42x9	136	71	215	CQP-4

Couplings made of Nylon with female thread

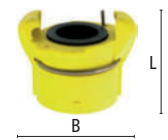
Thread connection	L	B	Weight	Type No.
G 1 1/4 f	63	61	126	CFP
Coarse thread 50 mm	63	61	107	CPF-50

Original Rubber Rings for couplings made of Nylon

System	Resistance	L	D	D1	Material	Temp.°C	Colour	Shore A	Weight	Type No.
CQP-3/4	Oil/ Air	27	44	19	NBR	-40 – +95	black	60°	20	SDR-1
CQP-1	Oil/ Air	27	44	25	NBR	-40 – +95	black	60°	17	SDR-2
Other types	Oil/ Air	27	44	31.5	NBR	-40 – +95	black	60°	18	SDR-3

Nozzle Holders made of Nylon with female thread

Hose connection	Thread connection	L	D	Weight	Type No.
Hose 19x7	Coarse thread 50	100	49	115	NHP-34
Hose 25x7	Coarse thread 50	100	51	93	NHP-1
Hose 32x8	Coarse thread 50	120	59	150	NHP-2
Hose 38x9	Coarse thread 50	128	66	156	NHP-3
Hose 19x7	G 1 1/4 f	100	51	109	HEP-34
Hose 25x7	G 1 1/4 f	100	51	102	HEP-1
Hose 32x8	G 1 1/4 f	128	59	154	HEP-2
Hose 38x9	G 1 1/4 f	128	66	166	HEP-3



Sandblast Throttle Valve

with lever stop

- Sandblast throttle valve made of malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Extreme robust version with throttle made of steel

Materials

- Housing, handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)

Max. Working Pressure	Thread	Media	
PN 50 bar	NPT	Mortar/concrete	1

Sandblast Throttle Valve with lever stop, without exhaust, both sides NPT male threads

Inlet	Outlet	L	SW	B	L1	L2	Passage	Weight	Type No.
NPT 1 m	NPT 1 m	96	37	168	22	22	16	741	ADA 10 SK



Hose Clamps and Hose Clips



For hose assembly of fittings, different assembly methods from strong clamps to light clips can be used subject to application, media, pressure or hose material.

Selection criteria are:

- Safety of the assembly
- Solvability
- Quickness
- Necessary devices (e.g. crimping machine)
- Cleanliness/ risk of injury (e.g. protruding screws)

Advantages:

- High-quality materials
- Robust, reliable and durable
- Easy handling
- Different sizes and versions
- Extremely safe connection due to hose clips with spacers and safety claws
- Can be reused at any time

**Hose Clamps -
Standard Version**



**Hose Clamps -
US-Version**



**Double-Ear
Hose Clips**



Materials

Clamps:

Malleable iron zinc-plated and yellow passiv./ Stainl. Steel 1.4401

Spacers:

Malleable iron zinc-plated and yellow passiv./ Stainl. Steel 1.4401

Screws:

Steel zinc-plated/ Stainl. Steel A4-70

Max. Working Pressure:

PN 16/ 25 bar

Norm:

DIN 20039 A/B

Page:

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Malleable iron zinc-plated and yellow passivated

-

Steel zinc-plated

PN 25 bar

-

254

Unbreakable special reliable steel zinc-plated & blue chromated

-

-

-

-

254

- Robust clamps made of malleable iron zinc plated and yellow passivated (free of chrome VI) or stainless steel 1.4401
- Robust, easy and secure hose assembly for various fittings and applications

Materials

- Clamps, spacers: Malleable iron zinc-plated and yellow passivated (free of chrome VI)/ Stainless Steel 1.4401
- Screws: Steel zinc-plated/ Stainless Steel A4-70

Max. Working Pressure	Norm
PN 16 / 25 bar	DIN 20039 A/B

Hose Clamps made of malleable iron, two parts with overlapping cast-on-spacers

Hose-o.D./		L	B	Screw size		Weight	Type No.
Version	Range						
Hose i.D. 13	17-22	60	17	M 8x30	10	95	S 22

Hose Clamps DIN 20039 A made of stainless steel 1.4401, two parts with loose spacers

Hose-o.D./		L	B	Screw size		Weight	Type No.
Version	Range						
Hose i.D. 13	18-26	63	18	M 8x30	5	140	SLE 13
Hose i.D. 19	26-33	71	18	M 8x30	5	160	SLE 19
Hose i.D. 25	32-40	81	18	M 10x35	5	210	SLE 25

Hose Clamps DIN 20039 A made of malleable iron, two parts with loose spacers

Hose-o.D./		L	B	Screw size		Weight	Type No.
Version	Range						
Hose i.D. 13	22-29	63	18	M 8x30	10	128	SL 29*
Hose i.D. 19	28-34	71	18	M 8x30	10	134	SL 34*
Hose i.D. 25	32-40	81	18	M 10x35	10	188	SL 40*
Hose i.D. 32	39-49	91	20	M 10x35	10	244	SL 49*
Hose i.D. 38	48-60	108	24	M 10x45	5	297	SL 60*
Hose i.D. 50	56-72	116	25	M 10x50	5	340	SL 72
Hose i.D. 50	60-76	127	25	M 10x50	5	405	SL 76
Hose i.D. 63	77-94	146	30	M 12x55	5	556	SL 94
Hose i.D. 75	89-101	139	25	M 12x110	1	665	SL 400
Hose i.D. 75	94-115	176	35	M 12x65	1	739	SL 115
Hose i.D. 89	113-127	170	27	M 12x110	1	890	SL 525
Hose i.D. 89	115-145	198	38	M 12x80	1	1046	SL 145
Hose i.D. 100	127-140	178	28	M 12x110	1	972	SL 550
Hose i.D. 100	135-155	194	27	M 12x110	1	984	SL 600
Hose i.D. 125	155-175	217	30	M 12x125	1	1130	SL 675
Hose i.D. 150	175-195	244	30	M 12x125	1	1445	SL 769
Hose i.D. 175	210-225	280	35	M 16x150	1	2163	SL 875
Hose i.D. 200	227-250	312	35	M 16x150	1	2610	SL 988

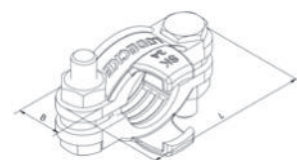
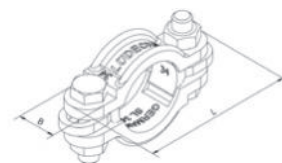
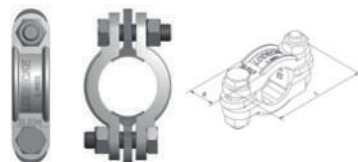
*according to DIN 20039 A

Hose Clamps DIN 20039 B made of malleable iron, two parts with loose spacers and safety claws***

Hose-o.D./		L	B	Screw size		Weight	Type No.
Version	Range						
Hose i.D. 13	22-29	63	18	M 8x30	10	142	SK 29
Hose 19x2		63	18	M 8x30	10	140	SK 29 FL**
Hose i.D. 19	28-32	77	21	M 10x35	10	220	SK 34
Hose 25x2		77	21	M 10x35	10	220	SK 34 FL**
Hose i.D. 25	35-42	90	22	M 10x35	10	272	SK 39
Hose i.D. 28	42-45	98	24	M 10x35	5	340	SK 44
Hose i.D. 35	45-53	108	25	M 10x45	5	380	SK 51
Hose i.D. 42	55-60	119	26	M 10x45	1	416	SK 60
Hose i.D. 50	60-73	132	30	M 12x55	1	637	SK 73
Hose i.D. 75	86-102	160	28	M 12x55	1	860	SK 75

**for flat hose

***PN 25 bar



Hose Clamps

US-Version

- Hose clamps made of malleable iron zinc plated and yellow passivated (free of chrome VI)
- **Robust, easy and secure hose assembly for various fittings and applications**

Materials

- Clamps: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Screws: Steel zinc-plated

Max. Working Pressure

PN 25 bar

US-Version Hose Clamps, two parts with safety claws

Hose-o.D./								
Version	Range	L	B	Screw size	Screws		Weight	Type No.
Hose i.D. 13	21-27	45	55	M 8x35	2	10	171	LB-4
Hose i.D. 19	30-35	43	65	M 8x45	2	10	176	SKA 34
Hose i.D. 19	30-33	64	70	M 10x50	2	1	405	LBU-9
Hose i.D. 19	33-38	70	71	M 10x50	2	1	413	LB-9
Hose i.D. 19	38-43	68	78	M 10x60	2	1	433	LB-10
Hose i.D. 25	34-45	70	85	M 10x50	2	1	500	SKA 10
Hose i.D. 50	63-70	100	120	M 12x80	4	1	1503	LBU-29



Double-Ear Hose Clips

- Clips made of special reliable steel zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect, safe and unsolvable
- No risk of injury
- **To assemble hoses and fittings for various media**

Materials

- Clips: Unbreakable special reliable steel, zinc-plated and blue chromated (free of chrome VI)

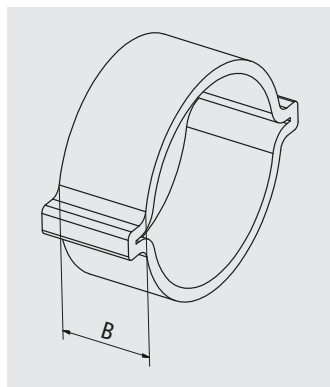


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Double-Ear Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43

Special assembly pincer	L	H	Weight	Type No.
	220	50	332	ZOSZ



Ball Valves and Throttle Valves



LUDECKE ball and throttle valves are used as shut-off valves in pipe systems.

In ball valves, a ball serves as shut-off device in the fitting. It opens and closes the fitting with a 90-degree rotation. Due to the full passage only small losses of flow occur. Specific O-rings which are attached between the ball and the body provide sealing.






In throttle valves, a cone shaped throttle will be pressed against the body under pressure. In this way, the valve seals without any seal wear (almost no dead space in the passageway). When turning off, pressure is reduced by ventilating the output side. This allows for safe disconnection.

Advantages:

- High-quality materials
- Robust, reliable, absolutely leakage-proof and durable
- Easy and fast handling
- Different sizes, version and connection types

Broad Range

At **LUDECKE** you will get the necessary ball valves and throttle valves for various application areas.

	Ball Valves Sturdy-Version	Ball Valves Light-Version	Double Ball Valves and Airhammer Ball Valves	Throttle Valves Standard-Version	Throttle Valves US-Version
					
Materials					
Body:	Brass CW617N	Forged brass nickel-pl.	Brass CW617N	Malleable iron zinc-plated + yellow pass.	Malleable iron zinc-plated + yellow pass.
Sockets:	Brass CW617N	Forged brass nickel-pl.	Brass CW617N	-	-
Spindle and nut:	Brass MS 58 nickel-pl.	Brass MS 58 nickel-pl.	Brass MS 58 plain	-	-
Ball:	Brass MS 58 chromed	Brass MS 58 chromed	Brass MS 58 chromed	-	-
Seals:	PTFE*/FKM**	PTFE*/FKM**	PTFE glass fiber reinf.*/NBR**	NBR/ Brass	NBR
Handle:	Die-cast aluminium red/black lacquered	Steel zinc-plated and coated with red PVC	Steel red lacquered	Malleable iron zinc-plated + yellow pass.	Malleable iron zinc-plated + yellow pass.
Max. Working Pressure:	PN 35 bar	see diagram	PN 35 bar	PN 10 bar	PN 10 bar
Temperature:	-15°C – + 100°C	-15°C – + 120°C	-15°C – + 100°C	-15°C – + 80°C	-15°C – + 80°C
Thread:	DIN EN 10226	ISO 228	ISO 228	ISO 228	NPT, ANSI / ASME B1.20.1
Page:	256	256	257	258	259

*ball seals / **spindle seals

Ball Valves

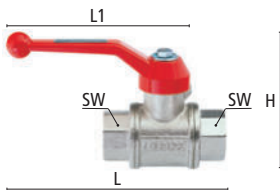
Sturdy Version made of Brass Nickel-Plated

- High-quality ball valves used for air, water, colour, solvents etc.
- Maintenance-free operation, long-living, sturdy and reliable, easy switching with full free passage, tested to be leakproof
- For Industry, construction and civil installations

Materials

- Body and Sockets: Brass CW617N sandblasted and nickel-plated
- Spindle and nut: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chromed
- Ball seals: PTFE
- Spindle seals: FKM
- Handle: Die-cast aluminium red/ black lacquered

Max. Working Pressure	Temperature	Thread	Media	
PN 35 bar	-15°C – +100°C	DIN EN 10226	various	1



Ball Valves with female thread DIN EN 10226

Thread connection	L	SW	H	L1	Passage	Weight	Type No.
2 x R 1/4 f	50	25	78	95	8	296	KM 14 T
2 x R 3/8 f	60	25	78	95	10	302	KM 38 T
2 x R 1/2 f	75	26	82	95	15	390	KM 12 T
2 x R 3/4 f	80	32	90	104	20	682	KM 34 T
2 x R 1 f	90	39	97	104	25	876	KM 10 T
2 x R 2 f	140	70	170	178	50	3700	KM 20 T

Ball Valves

Light Version made of Brass Nickel-Plated

- Ball Valves with full passage and smaller sizes
- For construction, industry, craftsmanship, agriculture or civil installations

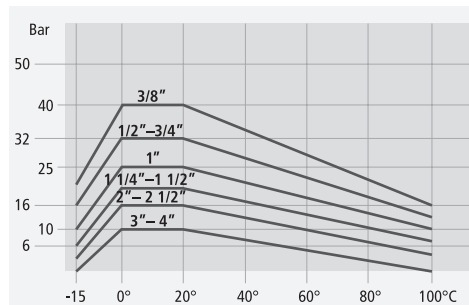
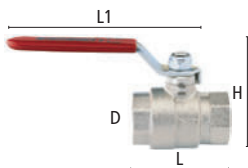
Materials

- Body and Sockets: Forged brass nickel-plated
- Ball: Brass MS 58 chromed
- Spindle seals: FKM
- Spindle and nut: Brass MS 58 nickel-plated
- Ball seals: PTFE
- Handle: Steel zinc-plated and coated with red PVC

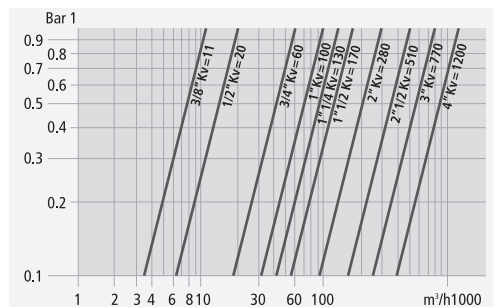
Max. Working Pressure	Temperature	Thread	Passage	Pressure drop	Media	
⊖ Diagram	-15°C – +120°C	ISO 228	⊖ Diagram	⊖ Diagram	various	1

Ball Valves with female thread ISO 228

Thread connection	L	H	D	L1	Passage	Weight	Type No.
2 x G 1/4 f	46	48	24	85	8	150	K 14 K
2 x G 3/8 f	46	48	24	85	10	132	K 38 K
2 x G 1/2 f	50	40	30	85	15	180	K 12 K
2 x G 3/4 f	58	48	38	105	20	306	K 34 K
2 x G 1 f	68	52	46	105	25	470	K 10 K
2 x G 1 1/4 f	80	63	58	130	32	813	K 54 K
2 x G 1 1/2 f	93	69	70	130	40	1262	K 15 K
2 x G 2 f	110	83	86	165	50	2100	K 20 K
2 x G 2 1/2 f	133	116	111	260	65	3799	K 25 K
2 x G 3 f	156	127	135	260	80	5625	K 30 K



Pressure and temperature diagram
For each ball valve, the nominal pressure PN depends on the type size and the temperature or vice versa.



Port capacity and pressure drop diagram
The Kv is the flow rate, expressed in cubic meters per hour, at a pressure drop of 1 bar with water at 15°C.

Double Ball Valves and Airhammer Ball Valves

Sturdy Version made of Brass Plain

- High-quality, maintenance free and extremely robust valves made of brass
- With lever stop and ventilation, on request also without ventilation
- For compressed air supply in construction, at compressors and airhammers in the industry

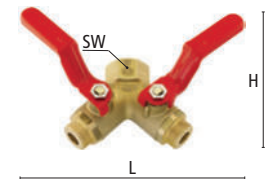
Materials

- Body and Sockets: Brass CW617N
- Spindle and nut: Brass MS 58 plain
- Ball: Brass MS 58 chromed
- Ball seals: PTFE glass fiber reinforced
- Spindle seals: NBR
- Handle: Steel red lacquered

Max. Working Pressure	Temperature	Thread	Media	
PN 35 bar	-15°C – +100°C	ISO 228	Compressed air	1

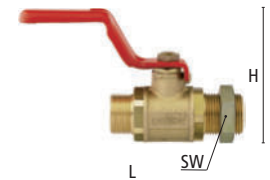
Double Ball Valves

Connection*	Thread connection**	L	SW	H	Passage	Weight	Type No.
2 x G 3/4 m	G 1 f	115	41	105	13	1039	DKH 10
2 x KIGO 34	G 1 f	170	41	130	13	1350	DKH 10 G
2 x KIM 34	G 1 f	170	41	130	13	1435	DKH 10 M



Airhammer Ball Valves, inlet thread with locking nut SW 32, outlet with inside cone 1:4

Connection*	Thread connection**	L	SW	H	Passage	Weight	Type No.
G 3/4 m	G 3/4 m	81	32	82	13	491	BKH 34
KIM 34	G 3/4 m	120	32	82	13	684	BKH 34 M



- On request we produce valves according to your drawings or samples with special connections and seals.
- Also available with T-Handle up to DN 25 e.g. KM 34 TBG (surcharge of 3.62 Euro/ piece)
- Please order ball valves used in inspected plants separately, e.g. KM 12 T - AD (after TRB 404)

*Outlet

**Inlet

Throttle Valves

Standard Version

- Extremely robust valves made of malleable iron zinc-plated and yellow passivated (free of chrome VI)
- With brass throttle and handle made of malleable iron
- Self-sealing, a cone shaped throttle will be pressed against the body under pressure, so the valve seals without any seal wear
- With thread connections or claw couplings with rubber or brass seal
- When turning off, pressure is reduced by ventilating the output side. This allows for safe disconnection.
- For compressed air supply in construction at compressors, hose lines and air tools

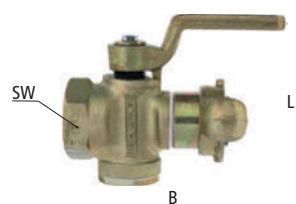
Materials

- Body, handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR / Brass

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 10 bar	-15°C – +80°C	ISO 228	42 mm	Compressed Air	1

Single Valves with lever stop and exhaust

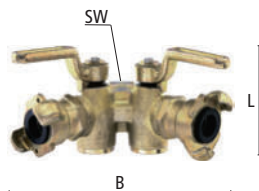
Inlet	Outlet	L	SW	B	Passage	Version	Seal	Weight	Type No.
G 1/2 f	G 3/4 m	77	41	100	15	without coupling		660	EH 12
G 3/4 f	G 3/4 m	70	41	100	17	without coupling		610	EH 34
G 1 f	G 3/4 m	70	41	100	17	without coupling		565	EH 10
G 1/2 f	KIGO 34	112	41	100	15	rigid claw coupling	NBR	819	EHG 12
G 3/4 f	KIGO 34	100	41	100	17	rigid claw coupling	NBR	761	EHG 34
G 1 f	KIGO 34	100	41	100	17	rigid claw coupling	NBR	726	EHG 10
G 1/2 f	KIM 34	122	41	100	15	rigid claw coupling	Brass	859	EHM 12
G 3/4 f	KIM 34	115	41	100	17	rigid claw coupling	Brass	808	EHM 34
G 1 f	KIM 34	115	41	100	17	rigid claw coupling	Brass	759	EHM 10
G 3/4 f	KIG 34-DR	130	41	100	17	swivelling claw coupling	NBR	943	EHG 34-DR



swivelling

Double Valves with lever stop and exhaust

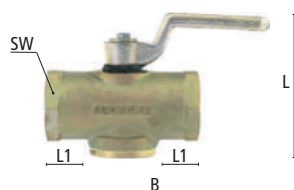
Inlet	Outlet	L	SW	B	Passage	Version	Seal	Weight	Type No.
G 3/4 f	2 x G 3/4 m	92	41	118	17	without coupling		1146	DH 34
G 1 f	2 x G 3/4 m	92	41	118	17	without coupling		1100	DH 10
G 3/4 f	2 x KIGO 34	92	41	170	17	rigid claw coupling	NBR	1466	DHG 34
G 1 f	2 x KIGO 34	92	41	170	17	rigid claw coupling	NBR	1438	DHG 10
G 3/4 f	2 x KIM 34	92	41	180	17	rigid claw coupling	Brass	1545	DHM 34
G 1 f	2 x KIM 34	92	41	180	17	rigid claw coupling	Brass	1503	DHM 10
G 3/4 f	2 x KIG 34-DR	92	41	225	17	swivelling claw coupling	NBR	1816	DHG 34-DR



swivelling

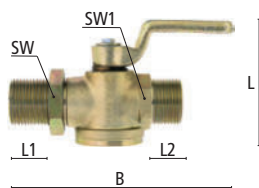
Straight Way Valves without lever stop, without exhaust, on request with exhaust

Inlet	Outlet	L	SW	B	L1	Passage	Weight	Type No.
G 1/2 f	G 1/2 f	85	37	128	18	16	700	DU 12
G 3/4 f	G 3/4 f	85	41	134	16	16	820	DU 34
G 1 f	G 1 f	85	41	134	16	16	770	DUL 10
G 1 f	G 1 f	107	43	132	18	20	1150	DUS 10



Airhammer Valves DIN 20030 without lever stop, without exhaust, inlet thread with locking nut SW 32/41

Inlet	Outlet	L	SW	B	L1	L2	SW1	Passage	Weight	Type No.
G 3/4 m	G 3/4 m, Cone 1:4	82	32	107	34	17	32	13	632	BH 343
G 3/4 m	Rd 32x1/8 m, Cone 1:3	82	32	135	34	17	32	13	773	BH 3486
G 1 m	G 1 m, Cone 1:3	85	36	120	40	22	36	16	848	BH 106
G 1 m	Rd 32x1/8 m, Cone 1:3	85	36	120	40	22	36	16	834	BH 326



Throttle Valves

US Version

- Extremely robust valves made of malleable iron zinc-plated and yellow passivated (free of chrome VI)
- With brass throttle and handle made of malleable iron
- Self-sealing, a cone shaped throttle will be pressed against the body under pressure, so the valve seals without any seal wear
- With NPT-thread connections or US-claw couplings with rubber seal
- When turning off, pressure is reduced by ventilating the output side. This allows for safe disconnection.
- For compressed air supply in construction at compressors, hose lines and air tools

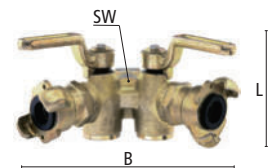
Materials

- Body, handle: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 10 bar	-15°C – +80°C	NPT, ANSI / ASME B1.20.1	41 mm	Compressed Air	1

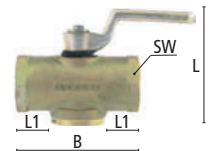
US-Double Valves with lever stop and exhaust

Inlet	Outlet	L	SW	B	Passage	Version	Seal	Weight	Type No.
NPT 3/4 f	NPT 2 x 3/4 m	92	41	118	17	without coupling		1170	DHA 34
NPT 1 f	NPT 2 x 3/4 m	92	41	118	17	without coupling		1130	DHA 10
NPT 3/4 f	2 x KIA 34	92	41	190	17	rigid claw coupling	NBR	1570	DHGA 34
NPT 1 f	2 x KIA 34	92	41	190	17	rigid claw coupling	NBR	1530	DHGA 10



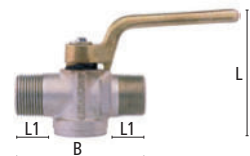
US-Straight-Way Valves without lever stop, without exhaust, on request with exhaust

Inlet	Outlet	L	SW	B	L1	Passage	Weight	Type No.
NPT 1/2 f	NPT 1/2 f	80	32	80	16	13	530	ADI 12
NPT 3/4 f	NPT 3/4 f	96	41	95	17	16	905	ADI 34
NPT 1 f	NPT 1 f	96	41	95	18	16	850	ADI 10



US-Straight-Way Valves without lever stop, without exhaust, on request with exhaust

Inlet	Outlet	L	SW	B	L1	Passage	Weight	Type No.
NPT 1/2 m	NPT 1/2 m	80	25	85	17	13	430	ADA 12
NPT 3/4 m	NPT 3/4 m	96	37	93	18	16	700	ADA 34
NPT 1 m	NPT 1 m	96	37	92.5	22	16	750	ADA 10





Processing Industry



NEW!

**Dripless
Quick Connect Couplings**



**Standard
Quick Connect Couplings**



**Temperature Regulation
Quick Connect Couplings**



NEW!

**Quick Connect
Couplings and Screwings for
Cleaning Applications**



Claw Couplings



**Chemical and Industrial
Fittings**



**Couplings and Fittings for
Snowmaking Systems**



Water Fittings



Hose Clamps and Hose Clips



**Clean
Connect**
by **LUDECKE**

**Liqui[®]
Safe**
by **LUDECKE**

**Snow[®]
Master**
by **LUDECKE**

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Innovative Coupling Systems for the Processing Industry



For applications with specific hygiene standards or in lines carrying aggressive media (i.e. gases, chemicals, pharmaceuticals or varnish products etc.), especially reliable and temperature resistant couplings and fittings are required.

With the CleanConnect product portfolio **LUDECKE** offers a superior range mostly made of stainless steel and perfectly adapted to these extraordinary requirements.

The dripless LiquiSafe by **LUDECKE**® quick connect couplings as well as the energy-efficient coupling systems and the couplings equipped with various safety mechanisms deserve special mention. They guarantee maximum safety and reliability in daily work.

Advantages:

- High-quality materials (stainless steel)
- Robust, safe and reliable
- Absolutely leakage-proof and durable
- Easy handling
- Different sizes, connection and valve types
- Smooth surfaces to avoid dirt from collecting
- Dripless products
- Energy-efficient coupling systems and couplings with different safety mechanisms

**Clean
Connect**
by **LUDECKE**


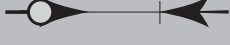


Broad Range

From classic claw couplings and quick connect couplings to chemical and industrial fittings as well as fittings for snowmaking machines: at **LUDECKE** you will find the right product for various applications.



Valve Designs

The **LUDECKE** couplings are available in different valve designs.

<p>Straight-Through</p>  <p>Female part (Coupling) Male part (plug)</p> <ul style="list-style-type: none"> • No valve - neither within the coupling nor within the plug • Maximum flow rate • During disconnection: media will leak from the coupling and plug line 	<p>Single Shut-off</p>  <p>Female part (Coupling) Male part (plug)</p> <ul style="list-style-type: none"> • Straight-through plug • Coupling with valve • During disconnection: media might leak from the plug line 	<p>Double Shut-off</p>  <p>Female part (Coupling) Male part (plug)</p> <ul style="list-style-type: none"> • Valves on both sides (male/female) • During disconnection: media will stay in the hose of both connection lines, constant pressure is maintained • Valve construction designed for media flow from coupling to plug 	<p>Dripless</p>  <p>Female part (Coupling) Male part (plug)</p> <ul style="list-style-type: none"> • Valves on both sides (male/female) - without dead space volume • During disconnection: only a minimal film of the media will leak (no drops will form)
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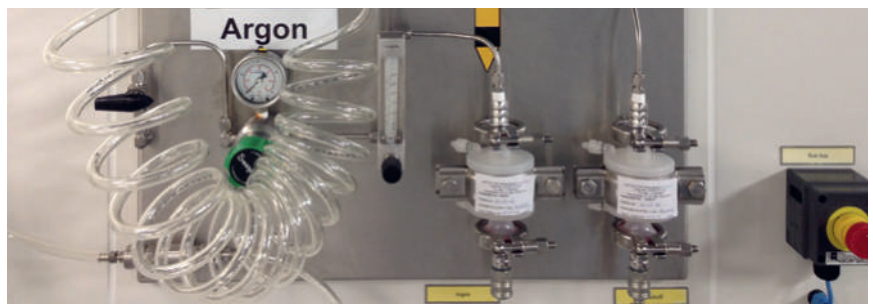
Materials

LUDECKE only works with premium materials which are customised to the application.

<p>Stainless Steel</p> <p>Most of the processing industry couplings and fittings consist of stainless steel - a material with a special degree of purity. The LUDECKE products are made of stainless steel 1.4035, 1.4401 and 1.4404 (1.4571 on request).</p>	<p>Steel (machining steel)</p> <p>If products are used under tough conditions (i.e. in foundries), they need to be manufactured out of machining steel (hardened, nickel-plated or zinc-plated). This material has good case-hardening properties and a long lifetime.</p>
<p>Brass (plain/ nickel-plated)</p> <p>Brass MS 58 (machining brass) is a very sturdy material which guarantees high durability and is perfectly suited for galvanization (nickel, chrome).</p>	<p>Seals</p> <p>Depending on the requirement, LUDECKE offers different types of sealings made of NBR, EPDM, FKM or FFKM.</p>

Various Applications

The processing industry products can be utilized in pharmacy, medical, control, measurement and regulation technology, food and chemical industry, temperature regulation technology as well as in machinery and plant construction.



Dripless Quick Connect Couplings



The innovative LiquiSafe by **LUDECKE**® quick connect couplings allow for a dripless coupling process. This ensures maximum operator safety and reliable protection against contamination when uncoupling.

The ergonomic sleeve shape provides very good grip and easy handling even if installations are difficult.

The coupling system is perfectly suited for liquid media in plant construction, temperature regulation technology, control cabinet cooling and many more.

Advantages:

- When decoupling, reduces the risk of media leakage to a minimum
- High efficiency due to maximum flow rate at low pressure drop
- Robust, safe, absolutely leakage-proof and durable
- Simple and intuitive coupling process
- Ergonomic design
- Smooth surfaces to avoid dirt from collecting
- Different sizes, materials and connection types

LiquiSafe
by **LUDECKE**

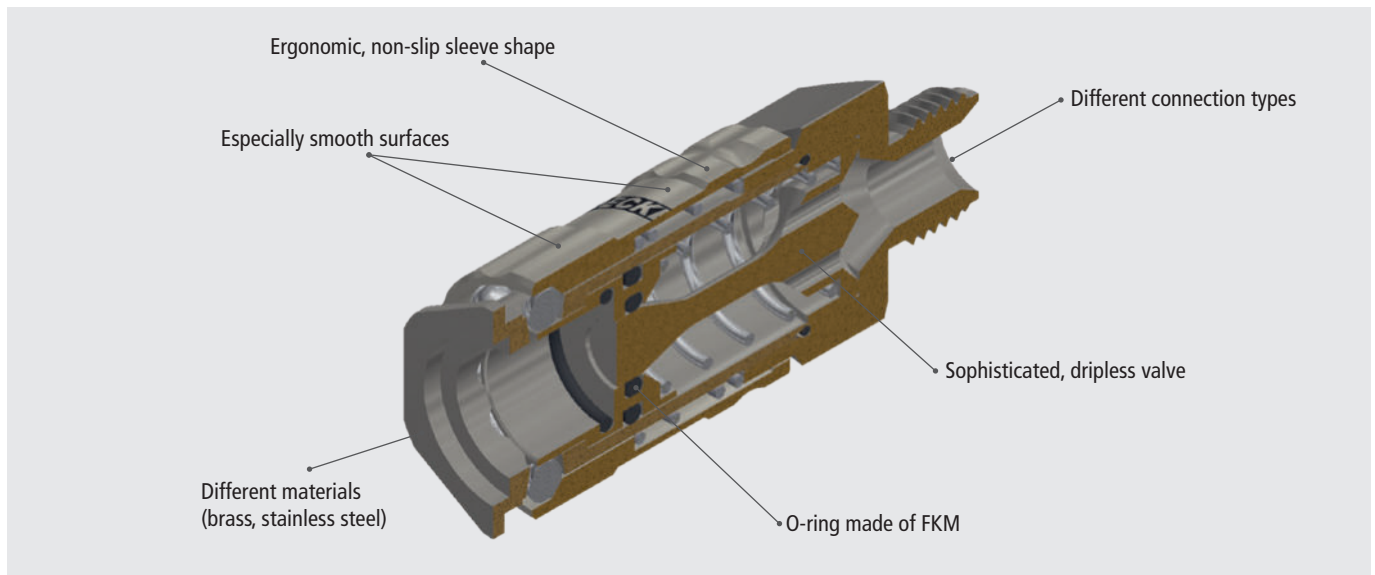
A Sophisticated System

The products of the LiquiSafe by **LUDECKE**® series have a shut-off valve without dead space volume. As a result, there is no air inclusion during the coupling process. Only a minimal, barely recognisable film of the media used sticks to the valve bodies.



First-Class Materials for Absolute Reliability

Every single component is made of selected and particularly high-quality materials. This ensures the best functionality possible and a long lifetime.



Seals:

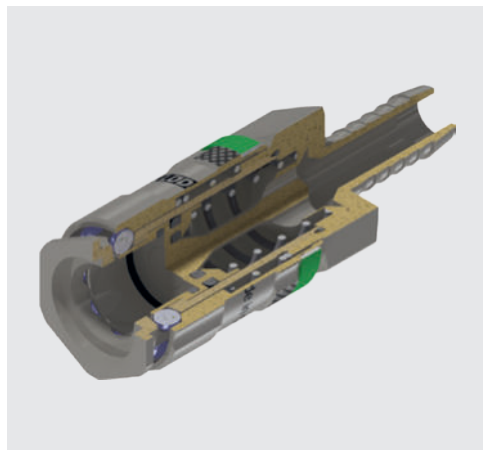
FKM:

LUDECKE offers high-resistant seals made of FKM for dripless quick connect couplings.

Advantages:

- Heat resistant up to 200°C (oil: 200°C, water: 150°C, air: 200°C)
- Highly resistant against all common media
- Significantly better gliding properties and minimum wear (low adhesive tendency)
- High elasticity (no crack formation) according to DIN 53504
- High abrasion resistance of the O-ring
- Significantly increased life times of couplings

High-Performance FKM



For high-temperature applications we recommend to use a high-performance FKM sealing ring.

- Extreme heat resistance up to 220°C continuous temperature (oil: 220°C, water: 180°C, air: 220°C)
- High resistance against synthetic oils
- Very good chemical resistance and high resistance against aliphatic hydrocarbons (fuels)
- Steam/ hot water optimised

For easy identification, the coupling sleeve is marked with a green anodized aluminium ring. Surcharge: 8.75 Euro gross/ piece - When ordering, simply add "HV" to the standard article number (e.g. ESCBN6 14 AABHV).

Other special seals (e.g. EPDM, FFKM) on request.

Functional Principle



Coupling: To connect, push the plug as far as possible into the coupling in an axial centre. The locking sleeve engages in the direction of the plug without any support. The valves in the coupling and plug open automatically and release the volume flow.

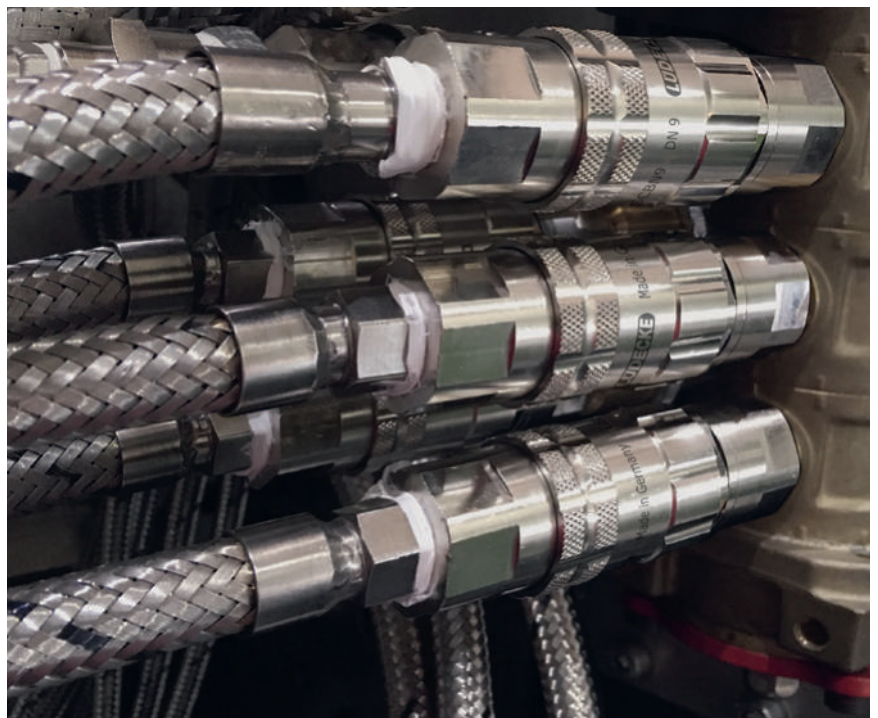


Uncoupling: To disconnect, firmly grip the plug with one hand, push back the locking sleeve towards the thread connection and disconnect. The plug can be pulled from the coupling.

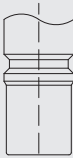
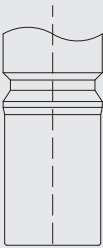
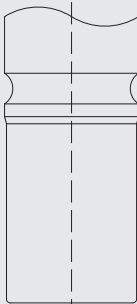

The shut-off valve of the coupling and plug closes automatically when uncoupling. This means that no media can leak from either side.

An All-rounder in Action

Clean - tidy - safe: these characteristics describe the LiquiSafe by **LUDECKE**® series to 100 % and guarantee multifunctional applications.



Overview of Dripless Quick Connect Couplings

Series	ESCBN/E DN 4*	ESCBN/E DN 6*	ESCBN/E DN 9*	ESMLA DN 5
Plug Profile (original size)	 Ø 8.4 mm	 Ø 12.5 mm	 Ø 17 mm	 Ø 9 mm



Materials				
Body:	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 plain/ MS 58 nickel-plated
Sleeve:	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 plain/ MS 58 nickel-plated
Valve body:	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 plain/ MS 58 nickel-plated
Valve:	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 plain/ MS 58 nickel-plated
Springs, Retaining ring:	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310	Stainless Steel 1.4310
Balls:	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.4034	Stainless Steel 1.3541
Seals:	FKM	FKM	FKM	NBR
Special seals for other media on request:	High-Performance FKM, EPDM, FFKM	High-Performance FKM, EPDM, FFKM	High-Performance FKM, EPDM, FFKM	EPDM, FKM, FFKM
Plug:	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 nickel-plated/ Stainless Steel 1.4305	MS 58 plain/ MS 58 nickel-plated/ galvanized steel
Max. Working Pressure:	PN 35 bar	PN 35 bar	PN 35 bar	PN 8 bar
Temperature:	-20°C – + 200°C**	-20°C – + 200°C**	-20°C – + 200°C**	-20°C – +100°C
Thread types:	ISO 228/ DIN 13	ISO 228/ DIN 13	ISO 228/ DIN 13	ISO 228
Flow Rate: (at 6 bar [ü] and 0.5 bar pressure drop) single shut-off	6.5 l/min	17.7 l/min	47 l/min	on request
Type of Valve:	dripless	dripless	dripless	dripless
Operation:	One-Hand	One-Hand	One-Hand	One-Hand
Page:	270/ 271	272/ 274	276/ 278	280

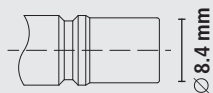
*This series is available in two versions. Accordingly, the materials of the individual components also differ.
 **Subject to media (oil: 200°C, water: 150°C, air: 200°C)

Quick Connect Couplings

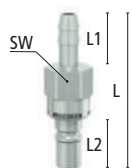
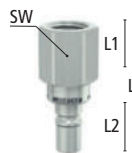
Series ESCBN dripless - made of Brass MS 58 nickel-plated

DN 4

Plug Profile (original size)



Also in Stainless Steel
Series ESCBE
Page 271



- One-hand quick connect couplings made of brass MS 58 nickel-plated
- Dripless coupling process (i.e. minimal fluid film, but no drops when disconnecting)
- Robust, safe and reliable
- High efficiency due to maximum flow rate at low pressure drop
- Numerous applications, especially for liquid media in plant construction, temperature regulation technology, control cabinet cooling, etc.

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 nickel-plated
- Springs: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	4	ISO 228 / DIN 13	6.5 l/min	One-hand	Dripless	Liquid media	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 m	41.5	17	19	7	49	ESCBN4 18 AAB
G 1/4 m	43.5	17	19	9	58	ESCBN4 14 AAB
M 14x1.5 m	43.5	17	19	9	58	ESCBN4 1415 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 f	42.5	14	19	9	52	ESCBN4 18 IAB
G 1/4 f	42.5	15	19	9	50	ESCBN4 14 IAB

Couplings with hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	51.5	19	17	50	ESCBN4 6 TLAB

For hose clips type ZOS (☺ page 398), type HS (☺ page 399) or crimping ferrules type LPH (☺ page 401)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	40.5	14	7	17.5	22	ESCBN4 18 NAAB
G 1/4 m	41.5	17	9	17.5	30	ESCBN4 14 NAAB
M 14x1.5 m	41	17	9	17.5	30	ESCBN4 1415NAAB

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	42	14	9	17.5	26	ESCBN4 18 NIAB
G 1/4 f	42	17	9	17.5	35	ESCBN4 14 NIAB

Plugs with hose stem

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 6	50.5	17	17	17.5	22	ESCBN4 6 SLAB

For hose clips type ZOS (☺ page 398), type HS (☺ page 399) or crimping ferrules type LPH (☺ page 401)

*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Quick Connect Couplings

dripless - made of Stainless Steel 1.4305 **Series ESCBE**

- One-hand quick connect couplings made of stainless steel 1.4305
- Dripless coupling process (i.e. minimal fluid film, but no drops when disconnecting)
- Robust, safe and reliable
- High efficiency due to maximum flow rate at low pressure drop
- Numerous applications, especially for liquid media in plant construction, temperature regulation technology, control cabinet cooling, etc.

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	4	ISO 228 / DIN 13	6.5 l/min	One-hand	Dripless	Liquid media	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 m	41.5	17	19	7	49	ESCBE4 18 AAB
G 1/4 m	43.5	17	19	9	58	ESCBE4 14 AAB
M 14x1.5 m	43.5	17	19	9	58	ESCBE4 1415 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 f	42.5	14	19	9	52	ESCBE4 18 IAB
G 1/4 f	42.5	15	19	9	50	ESCBE4 14 IAB

Couplings with hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 6	51.5	19	17	50	ESCBE4 6 TLAB

For hose clips type HSE (☺ page 357)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	40.5	14	7	17.5	22	ESCBE4 18 NAAB
G 1/4 m	41.5	17	9	17.5	30	ESCBE4 14 NAAB
M 14x1.5 m	41	17	9	17.5	30	ESCBE4 1415NAAB

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	42	14	9	17.5	26	ESCBE4 18 NIAB
G 1/4 f	42	17	9	17.5	35	ESCBE4 14 NIAB

Plugs with hose stem

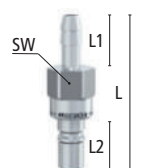
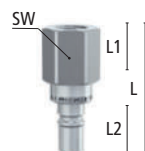
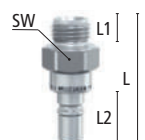
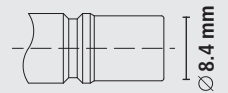
Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 6	50.5	17	17	17.5	22	ESCBE4 6 SLAB

For hose clips type HSE (☺ page 357)

*subject to media (oil: 200°C, water: 150°C, air: 200°C)

DN 4

Plug Profile (original size)

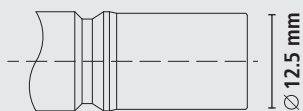


Quick Connect Couplings

Series ESCBN dripless - made of Brass MS 58 nickel-plated

DN 6

Plug Profile (original size)



Also in Stainless Steel
Series ESCBE
Page 274



- One-hand quick connect couplings made of brass MS 58 nickel-plated
- Dripless coupling process (i.e. minimal fluid film, but no drops when disconnecting)
- Robust, safe and reliable
- High efficiency due to maximum flow rate at low pressure drop
- Numerous applications, especially for liquid media in plant construction, temperature regulation technology, control cabinet cooling, etc.

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 nickel-plated
- Springs: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	6	ISO 228 / DIN 13	17.7 l/min	One-hand	Dripless	Liquid media	Europe	Coupl. 1/ Plug 5

Couplings with straight male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	59	22	25	11	114	ESCBN6 14 AAB
G 3/8 m	59	22	25	11	118	ESCBN6 38 AAB
G 1/2 m	59	22	25	12	120	ESCBN6 12 AAB
M 14x1.5 m	59	22	25	11	115	ESCBN6 1415 AAB
M 16x1.5 m	59	22	25	11	117	ESCBN6 1615 AAB

Couplings with 90° male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	65.5	15	25	11	173	ESCBN6 14A-90AB
G 3/8 m	65.5	17	25	11	179	ESCBN6 38A-90AB
M 14x1.5 m	65.5	15	25	11	174	ESCBN61415A90AB
M 16x1.5 m	65.5	17	25	11	179	ESCBN61615A90AB

Couplings with straight female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	53.5	22	25	9	120	ESCBN6 14 IAB
G 3/8 f	53.5	22	25	9	115	ESCBN6 38 IAB
G 1/2 f	58.5	24	25	12	124	ESCBN6 12 IAB

Couplings with straight hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 9	70.5	25	22.5	114	ESCBN6 9 TLAB

For hose clips type ZOS (☺ page 398), type HS (☺ page 399) or crimping ferrules type LPH (☺ page 401)

Couplings with 90° hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 9	65.5	25	22.5	171	ESCBN6 9TL-90AB

For hose clips type ZOS (☺ page 398), type HS (☺ page 399) or crimping ferrules type LPH (☺ page 401)

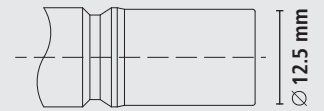
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Quick Connect Couplings

dripless - made of Brass MS 58 nickel-plated **Series ESCBN**

DN 6

Plug Profile (original size)



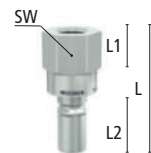
Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	59.5	22	11	27.5	78	ESCBN6 14 NAAB
G 3/8 m	59.5	22	11	27.5	83	ESCBN6 38 NAAB
G 1/2 m	59.5	22	12	27.5	84	ESCBN6 12 NAAB
M 14x1.5 m	59.5	22	11	27.5	79	ESCBN6 1415NAAB
M 16x1.5 m	59.5	22	11	27.5	81	ESCBN6 1615NAAB



Plugs with female thread

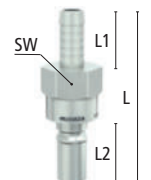
Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	54	22	9	27,5	85	ESCBN6 14 NIAB
G 3/8 f	54	22	9	27,5	79	ESCBN6 38 NIAB
G 1/2 f	59	24	12	27,5	88	ESCBN6 12 NIAB



Plugs with hose stem

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 9	71	22	22.5	27.5	78	ESCBN6 9 SLAB

For hose clips type ZOS (☺ page 398), type HS (☺ page 399) or crimping ferrules type LPH (☺ page 401)



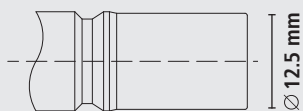
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Quick Connect Couplings

Series ESCBE dripless - made of Stainless Steel 1.4305

DN 6

Plug Profile (original size)



- One-hand quick connect couplings made of stainless steel 1.4305
- Dripless coupling process (i.e. minimal fluid film, but no drops when disconnecting)
- Robust, safe and reliable
- High efficiency due to maximum flow rate at low pressure drop
- Numerous applications, especially for liquid media in plant construction, temperature regulation technology, control cabinet cooling, etc.

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	6	ISO 228 / DIN 13	17.7 l/min	One-hand	Dripless	Liquid media	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	59	22	25	11	114	ESCBE6 14 AAB
G 3/8 m	59	22	25	11	118	ESCBE6 38 AAB
G 1/2 m	59	22	25	12	120	ESCBE6 12 AAB
M 14x1.5 m	59	22	25	11	115	ESCBE6 1415 AAB
M 16x1.5 m	59	22	25	11	117	ESCBE6 1615 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	53.5	22	25	9	120	ESCBE6 14 IAB
G 3/8 f	53.5	22	25	9	115	ESCBE6 38 IAB
G 1/2 f	58.5	24	25	12	124	ESCBE6 12 IAB

Couplings with hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 9	70.5	25	22.5	114	ESCBE6 9 TLAB

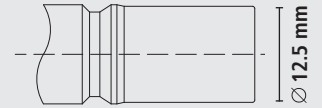
For hose clips type HSE (☹ page 357)

Quick Connect Couplings

dripless - made of Stainless Steel 1.4305 **Series ESCBE**

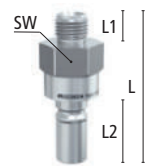
DN 6

Plug Profile (original size)



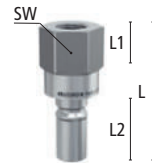
Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	59.5	22	11	27.5	78	ESCBE6 14 NAAB
G 3/8 m	59.5	22	11	27.5	83	ESCBE6 38 NAAB
G 1/2 m	59.5	22	12	27.5	84	ESCBE6 12 NAAB
M 14x1.5 m	59.5	22	11	27.5	79	ESCBE6 1415NAAB
M 16x1.5 m	59.5	22	11	27.5	81	ESCBE6 1615NAAB



Plugs with female thread

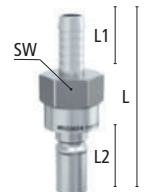
Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	54	22	9	27.5	85	ESCBE6 14 NIAB
G 3/8 f	54	22	9	27.5	79	ESCBE6 38 NIAB
G 1/2 f	59	24	12	27.5	88	ESCBE6 12 NIAB



Plugs with hose stem

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 9	71	22	22.5	27.5	78	ESCBE6 9 SLAB

For hose clips type HSE (☺ page 357)



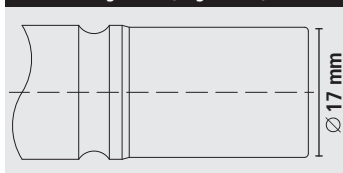
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Quick Connect Couplings

Series ESCBN dripless - made of Brass MS 58 nickel-plated

DN 9

Plug Profile (original size)



Also in Stainless Steel
Series ESCBE
Page 278



- One-hand quick connect couplings made of brass MS 58 nickel-plated
- Dripless coupling process (i.e. minimal fluid film, but no drops when disconnecting)
- Robust, safe and reliable
- High efficiency due to maximum flow rate at low pressure drop
- Numerous applications, especially for liquid media in plant construction, temperature regulation technology, control cabinet cooling, etc.

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 nickel-plated
- Springs: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	9	ISO 228 / DIN 13	47 l/min	One-hand	Dripless	Liquid media	Europe	Coupl. 1/ Plug 5

Couplings with straight male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 m	75	27	33	11	235	ESCBN9 38 AAB
G 1/2 m	76	27	33	12	238	ESCBN9 12 AAB
G 3/4 m	76	27	33	12	256	ESCBN9 34 AAB
M 16x1.5 m	75	27	33	11	236	ESCBN9 1615 AAB
M 18x1.5 m	75	27	33	11	237	ESCBN9 1815 AAB

Couplings with 90° male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 m	82	17	33	11	320	ESCBN9 38A-90AB
G 1/2 m	82	19	33	11	326	ESCBN9 12A-90AB
M 16x1.5 m	82	17	33	11	319	ESCBN91615A90AB
M 18x1.5 m	82	19	33	11	320	ESCBN91815A90AB

Couplings with straight female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 f	69	27	33	9	238	ESCBN9 38 IAB
G 1/2 f	69	27	33	12	230	ESCBN9 12 IAB
G 3/4 f	76	30	33	16	252	ESCBN9 34 IAB

Couplings with straight hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 13	87	33	25	219	ESCBN9 13 TLAB

For hose clips type ZOS (☉ page 398), type HS (☉ page 399) or crimping ferrules type LPH (☉ page 401)

Couplings with 90° hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 13	82	33	25	325	ESCBN913TL-90AB

For hose clips type ZOS (☉ page 398), type HS (☉ page 399) or crimping ferrules type LPH (☉ page 401)

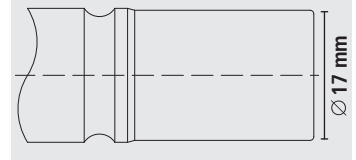
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Quick Connect Couplings

dripless - made of Brass MS 58 nickel-plated **Series ESCBN**

DN 9

Plug Profile (original size)



Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 m	62	27	11	37.5	143	ESCBN9 38 NAAB
G 1/2 m	63	27	12	37.5	147	ESCBN9 12 NAAB
G 3/4 m	63	27	12	37.5	165	ESCBN9 34 NAAB
M 16x1.5 m	62	27	11	37.5	144	ESCBN9 1615NAAB
M 18x1.5 m	62	27	11	37.5	146	ESCBN9 1815NAAB



Plugs with female thread

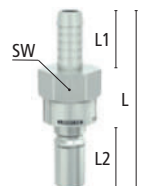
Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	61	27	9	37.5	147	ESCBN9 38 NIAB
G 1/2 f	63	27	12	37.5	138	ESCBN9 12 NIAB
G 3/4 f	67	30	16	37.5	161	ESCBN9 34 NIAB



Plugs with hose stem

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 13	77	27	25	37.5	128	ESCBN9 13 SLAB

For hose clips type ZOS (© page 398), type HS (© page 399) or crimping ferrules type LPH (© page 401)



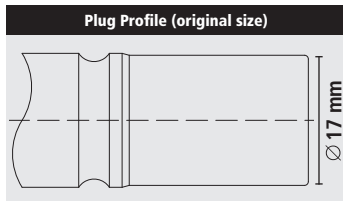
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Quick Connect Couplings

Series ESCBE dripless - made of Stainless Steel 1.4305

DN 9

Plug Profile (original size)



- One-hand quick connect couplings made of stainless steel 1.4305
- Dripless coupling process (i.e. minimal fluid film, but no drops when disconnecting)
- Robust, safe and reliable
- High efficiency due to maximum flow rate at low pressure drop
- Numerous applications, especially for liquid media in plant construction, temperature regulation technology, control cabinet cooling, etc.

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM (other materials on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	9	ISO 228 / DIN 13	47 l/min	One-hand	Dripless	Liquid media	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 m	75	27	33	11	235	ESCBE9 38 AAB
G 1/2 m	76	27	33	12	238	ESCBE9 12 AAB
G 3/4 m	76	27	33	12	256	ESCBE9 34 AAB
M 16x1.5 m	75	27	33	11	236	ESCBE9 1615 AAB
M 18x1.5 m	75	27	33	11	237	ESCBE9 1815 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/8 f	69	27	33	9	238	ESCBE9 38 IAB
G 1/2 f	69	27	33	12	230	ESCBE9 12 IAB
G 3/4 f	76	30	33	16	252	ESCBE9 34 IAB

Couplings with hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 13	87	33	25	219	ESCBE9 13 TLAB

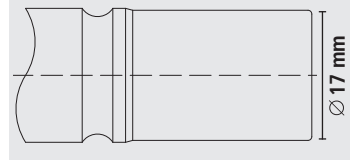
For hose clips type HSE (© page 357)

Quick Connect Couplings

dripless - made of Stainless Steel 1.4305 **Series ESCBE**

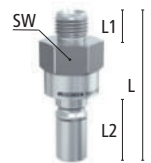
DN 9

Plug Profile (original size)



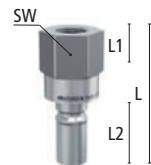
Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 m	62	27	11	37.5	143	ESCBE9 38 NAAB
G 1/2 m	63	27	12	37.5	147	ESCBE9 12 NAAB
G 3/4 m	63	27	12	37.5	165	ESCBE9 34 NAAB
M 16x1.5 m	62	27	11	37.5	144	ESCBE9 1615NAAB
M 18x1.5 m	62	27	11	37.5	146	ESCBE9 1815NAAB



Plugs with female thread

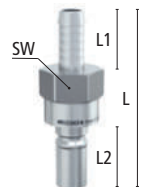
Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	61	27	9	37.5	147	ESCBE9 38 NIAB
G 1/2 f	63	27	12	37.5	138	ESCBE9 12 NIAB
G 3/4 f	67	30	16	37.5	161	ESCBE9 34 NIAB



Plugs with hose stem

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 9	77	27	25	37.5	128	ESCBE9 13 SLAB

For hose clips type HSE (☺ page 357)



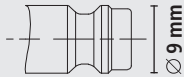
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Mini Quick Connect Couplings

Series ESMLA dripless

DN 5

Plug Profile (original size)



- One-hand quick connect couplings with reduced dimensions made of brass MS 58 plain/ nickel-plated
- Robust, safe and reliable
- No loss of liquid (liquid film, no drops) when disconnecting
- **Please connect with shut-off plugs**
- Numerous applications, especially for liquid media in plant construction, measurement and control technology and in the area of electrical components and circuit boards

Materials

- Body, sleeve, valve body, valve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.3541
- Seals: NBR (EPDM and FKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 8 bar	-20°C – +100°C	5	ISO 228	On request	One-hand	Dripless	Liquid media	Europe	10

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. n.plated	Type No. plain
G 1/8 m	37	14	16	7	27	ESMNLA 18 A	ESMLA 18 A
G 1/4 m	38	17	16	9	36	ESMNLA 14 A	ESMLA 14 A
G 3/8 m	38	19	16	9	43	ESMNLA 38 A	ESMLA 38 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. n.plated	Type No. plain
G 1/8 f	37	14	16	9	32	ESMNLA 18 I	ESMLA 18 I
G 1/4 f	38	17	16	9	38	ESMNLA 14 I	ESMLA 14 I
G 3/8 f	39.5	19	16	10.5	39	ESMNLA 38 I	ESMLA 38 I

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No. n.plated	Type No. plain
Hose i.D. 4	46	14	16	17	27	ESMNLA 4 T	ESMLA 4 T
Hose i.D. 5	46	14	16	17	27	ESMNLA 5 T	ESMLA 5 T
Hose i.D. 6	46	14	16	17	27	ESMNLA 6 T	ESMLA 6 T
Hose i.D. 8	46	14	16	17	29	ESMNLA 8 T	ESMLA 8 T
Hose i.D. 9	46	14	16	17	29	ESMNLA 9 T	ESMLA 9 T

For hose clips type ZOS (☺ page 398), type HS (☺ page 399) or crimping ferrules type LPH (☺ page 401)

Couplings with squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No. n.plated	Type No. plain
Hose 4x6	43	14	16	12	32	ESMNLA 4 TQ	ESMLA 4 TQ
Hose 6x8	43	14	16	14	34	ESMNLA 6 TQ	ESMLA 6 TQ

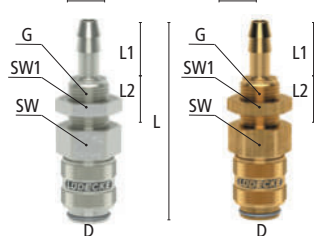
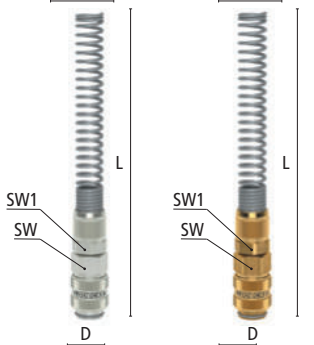
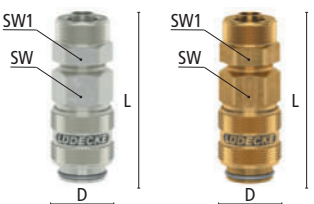
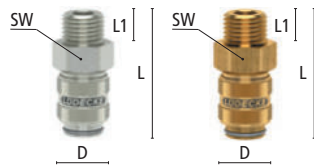
Couplings with squeeze nut and bulkhead screwing

Hose connection	L	SW	D	SW1	Weight	Type No. n.plated	Type No. plain
Hose 4x6	122	14	16	12	47	ESMNLA 4 TQF	ESMLA 4 TQF
Hose 6x8	130	14	16	14	56	ESMNLA 6 TQF	ESMLA 6 TQF

Couplings with bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No. n.plated	Type No. plain
Hose i.D. 4	60	14	16	17	14	14	M 10x1 m	40	ESMNLA 4 TSV	ESMLA 4 TSV
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESMNLA 6 TSV	ESMLA 6 TSV
Hose i.D. 9	60	17	16	17	14	19	M 12x1 m	47	ESMNLA 9 TSV	ESMLA 9 TSV

For hose clips type ZOS (☺ page 398), type HS (☺ page 399) or crimping ferrules type LPH (☺ page 401)

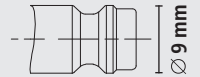


Mini Quick Connect Couplings

dripless **Series ESMLA**

DN 5

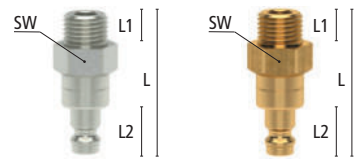
Plug Profile (original size)



Plugs with male thread

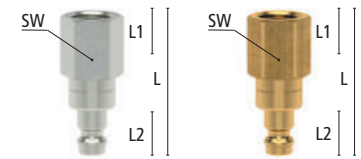
Thread connection	L	SW	L1	L2	Weight	Type No. n.plated	Type No. plain
G 1/8 m	40	13	7	14	26	ESMN 18 NAAB	ESM 18 NAAB
G 1/4 m	42	17	9	14	35	ESMN 14 NAAB	ESM 14 NAAB
G 3/8 m	42	19	9	14	42	ESMN 38 NAAB	ESM 38 NAAB
M 10x1 m	40	14	7	14	25	ESMN 101 NAAB	ESM 101 NAAB
M 12x1.5 m	44	17	10	14	35	ESMN 121 NAAB	ESM 121 NAAB
M 14x1.5 m	44	17	10	14	36	ESMN 141 NAAB	ESM 141 NAAB

Male thread sealing with PVC sealing ring type HPD (☺ page 212)



Plugs with female thread

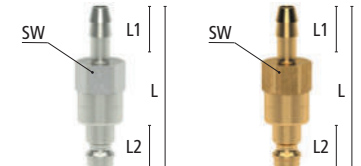
Thread connection	L	SW	L1	L2	Weight	Type No. n.plated	Type No. plain
G 1/8 f	42	13	9	14	28	ESMN 18 NIAB	ESM 18 NIAB
G 1/4 f	42	17	10	14	38	ESMN 14 NIAB	ESM 14 NIAB
G 3/8 f	43.5	19	10.5	14	38	ESMN 38 NIAB	ESM 38 NIAB
M 10x1 f	42	14	9	14	28	ESMN 101 NIAB	ESM 101 NIAB
M 12x1.5 f	42	17	9	14	37	ESMN 121 NIAB	ESM 121 NIAB
M 14x1.5 f	42	17	9	14	38	ESMN 141 NIAB	ESM 141 NIAB



Plugs with hose stem

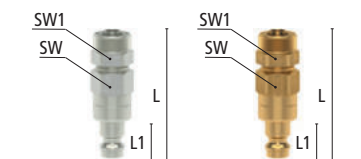
Hose connection	L	SW	L1	L2	Weight	Type No. n.plated	Type No. plain
Hose i.D. 4	50	14	17	14	23	ESMN 4 SAB	ESM 4 SAB
Hose i.D. 6	50	14	17	14	23	ESMN 6 SAB	ESM 6 SAB
Hose i.D. 8	50	14	17	14	25	ESMN 8 SAB	ESM 8 SAB
Hose i.D. 9	50	14	17	14	25	ESMN 9 SAB	ESM 9 SAB

For hose clips type ZOS (☺ page 398), type HS (☺ page 399) or crimping ferrules type LPH (☺ page 401)



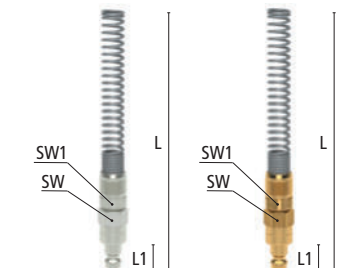
Plugs with squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No. n.plated	Type No. plain
Hose 4x6	47	14	14	12	32	ESMN 4 SQAB	ESM 4 SQAB
Hose 6x8	47	14	14	14	32	ESMN 6 SQAB	ESM 6 SQAB



Plugs with squeeze nut and bulkhead screwing

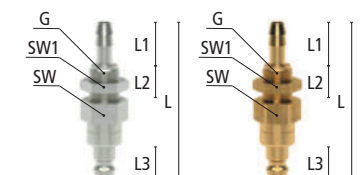
Hose connection	L	SW	L1	SW1	Weight	Type No. n.plated	Type No. plain
Hose 4x6	135	14	14	12	40	ESMN 4 SQFAB	ESM 4 SQFAB
Hose 6x8	135	14	14	14	42	ESMN 6 SQFAB	ESM 6 SQFAB



Plugs with bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No. n.plated	Type No. plain
Hose i.D. 4	64	14	14	14	17	14	M 10x1 m	45	ESMN 4 SSVAB	ESM 4 SSVAB
Hose i.D. 6	64	14	14	14	17	17	M 12x1 m	45	ESMN 6 SSVAB	ESM 6 SSVAB
Hose i.D. 9	64	14	14	14	17	19	M 12x1 m	45	ESMN 9 SSVAB	ESM 9 SSVAB

For hose clips type ZOS (☺ page 398), type HS (☺ page 399) or crimping ferrules type LPH (☺ page 401)



Standard Quick Connect Couplings



An easy and efficient compressed air supply is essential for every industrial factory.

The original **LUDECKE** standard quick connect couplings can be used to quickly connect/disconnect media-carrying lines to tools, machines and equipment in the processing industry.

All quick connect couplings are made of stainless steel and are available in different versions: ranging from micro and mini to industrial quick connect couplings.

Moreover, the **OptiFlow-Line** provides energy-efficient coupling systems.

Advantages:

- High-quality materials (Stainless steel 1.4305 or 1.4404)
- Sturdy, reliable and durable
- Easy to couple
- Various sizes, connection and valve types
- Different surfaces (knurled sleeve/ smooth sleeve)
- Patented OptiFlow by **LUDECKE**® valve technology

OptiFlow-Line

With the products from the **LUDECKE OptiFlow-Line**, you will receive energy-optimised coupling systems which achieve higher flow rates and significantly reduce energy consumption. This leads to decreasing energy costs as well as to increasing durability and lifetime of machines and tools.



LUDECKE OptiFlow-Line

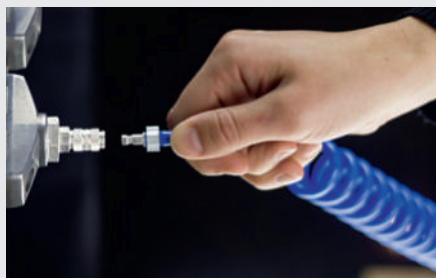
- Patented OptiFlow by **LUDECKE**® valve technology
- Extremely high flow rates
- Low pressure drop
- High durability
- Great operational safety and best sealing characteristics

OptiFlow
by **LUDECKE**

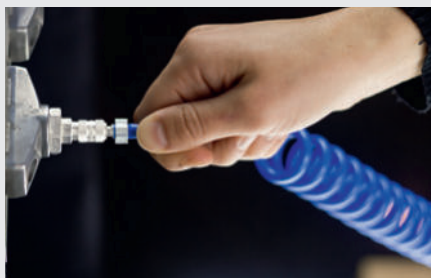


Connected in Seconds

All the **LUDECKE** standard quick connect couplings work according to the common coupling principle of one-hand quick connect couplings.



One-hand operation: To connect simply push the plug into the coupling.



To disconnect, pull back the sleeve from the coupling (comes with automatic locking mechanism in shut-off couplings).

Various Applications

Thanks to the broad range of products, the quick connect couplings can be used in various applications.

For areas with increased hygiene requirements, we recommend products with an easy-to-clean, ergonomically smooth surface to avoid dirt from collecting.



Overview of Standard Quick Connect Couplings

Quality-Line

Series

ESMCE
DN 2.7*

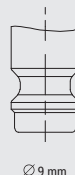
ESME
DN 5*

ESE
DN 7.2*

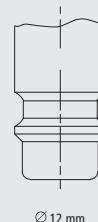
Plug Profile
(original size)



Ø 5 mm



Ø 9 mm



Ø 12 mm



Materials

Body:

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Sleeve:

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Valve body:

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Valve:

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Springs, Retaining rings:

Stainless Steel 1.4310/
Stainless Steel 1.4571

Stainless Steel 1.4310/
Stainless Steel 1.4571

Stainless Steel 1.4310/
Stainless Steel 1.4571

Balls:

Stainless Steel 1.3541/
Stainless Steel 1.4404

Stainless Steel 1.3541/
Stainless Steel 1.4404

Pins: Stainless Steel 1.4305/
Stainless Steel 1.4404

Seals:

FKM

FKM

FKM

Special seals for other media
on request:

EPDM, FFKM

EPDM, FFKM

EPDM, FFKM

Plug:

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Max. Working Pressure:

PN 35 bar

PN 35 bar

PN 35 bar

Temperature**:

-15°C – + 200°C

-15°C – + 200°C

-15°C – + 200°C

Thread Types:

ISO 228/ DIN 13

ISO 228/ DIN 13

ISO 228

Flow Rate:

165 l/min

510 l/min

1150 l/min

(Air - 6 bar/ 0.5 bar pressure drop)
single shut-off:

Type of valve:

single/ double/ straight-through

single/ double/ straight-through

single/ double/ straight-through

Operation:

One-Hand

One-Hand

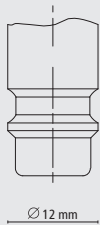
One-Hand

Page:

286

291

296

**ESIE
DN 7.8***


Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4310/
Stainless Steel 1.4571

Stainless Steel 1.4034/
Stainless Steel 1.4404

FKM

EPDM, FFKM

Stainless Steel 1.4305/
Stainless Steel 1.4404

PN 35 bar

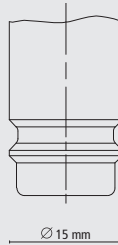
-15°C – + 200°C

ISO 228

2000 l/min

single/ double/ straight-through
One-Hand

301

**ESIGE
DN 10***


Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4310/
Stainless Steel 1.4571

Stainless Steel 1.4034/
Stainless Steel 1.4404

FKM

EPDM, FFKM

Stainless Steel 1.4305/
Stainless Steel 1.4404

PN 35 bar

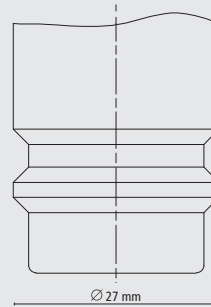
-15°C – + 200°C

ISO 228

3200 l/min

single/ double/ straight-through
One-Hand

304

**ESGE
DN 19***


Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4305/
Stainless Steel 1.4404

Stainless Steel 1.4310/
Stainless Steel 1.4571

Stainless Steel 1.4034/
Stainless Steel 1.4404

FKM

EPDM, FFKM

Stainless Steel 1.4305/
Stainless Steel 1.4404

PN 35 bar

-15°C – + 200°C

ISO 228

8000 l/min

single/ double
One-Hand

307

*These stainless steel series is available in two versions on request (1.4305 and 1.4404). Accordingly, the materials of the individual components also differ.

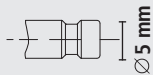
**Subject to media and seals

Micro Quick Connect Couplings

Series ESMCE single shut-off

DN 2.7

Plug Profile (original size)



- One-hand quick connect couplings with smallest dimensions made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Suitable for low vacuum at low couple force compared to all other compatible products
- **Can be used in various applications, especially for liquid media in pharmacy, medical technology, chemical industry, food industry, clean-room applications, for sophisticated measure, control and regulation technology or increased hygiene requirements**

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.3541
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	2,7	ISO 228 / DIN 13	165 l/min	One-hand	Single shut-off	Different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 m	26	9	10.5	5	9	ESMCE 5 A
G 1/8 m	28	11	10.5	7	12	ESMCE 18 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 f	25	9	10.5	5	10	ESMCE 5 I
G 1/8 f	28	12	10.5	7	14	ESMCE 18 I

Couplings with hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 3	34.5	10.5	13	9	ESMCE 3 T
Hose i.D. 4	34.5	10.5	13	10	ESMCE 4 T
Hose i.D. 5	34.5	10.5	13	10	ESMCE 5 T

For hose clips type HSE (© page 357)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No.
Hose 3x4	34	9	10.5	15	ESMCE 34 TQ
Hose 3x5	34	9	10.5	15	ESMCE 3 TQ
Hose 4x6	34	9	10.5	15	ESMCE 4 TQ

Couplings with hose squeeze nut and bulkhead screwing

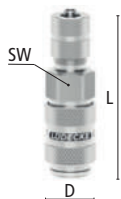
Hose connection	L	SW	D	L1	SW1	G	Weight	Type No.
Hose 3x4	45	12	10.5	17	11	M 7x0.5 m	26	ESMCE 34 TQSV
Hose 3x5	45	12	10.5	17	11	M 7x0.5 m	26	ESMCE 35 TQSV
Hose 4x6	45	12	10.5	17	12	M 8x0.5 m	26	ESMCE 4 TQSV

Couplings with hose stem and bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 3	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCE 3 TSV
Hose i.D. 4	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCE 4 TSV
Hose i.D. 5	51	12	10.5	13	17	12	M 8x0.5 m	24	ESMCE 5 TSV

For hose clips type HSE (© page 357)

*subject to media and sealing material

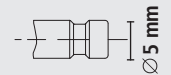


Micro Quick Connect Couplings

single shut-off **Series ESMCE**

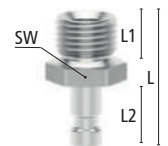
DN 2.7

Plug Profile (original size)



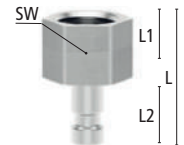
Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
M 5 m	18	7	5	10	3	ESMCE 5 NA
G 1/8 m	20	11	7	10	6	ESMCE 18 NA



Plugs with female thread

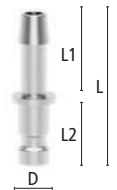
Thread connection	L	SW	L1	L2	Weight	Type No.
M 5 f	17	7	5	10	3	ESMCE 5 NI
G 1/8 f	19	12	7	10	6	ESMCE 18 NI



Plugs with hose stem

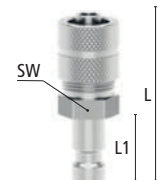
Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 3	24	7	13	10	2	ESMCE 3 S
Hose i.D. 4	24	7	13	10	3	ESMCE 4 S
Hose i.D. 5	24	9	13	10	3	ESMCE 5 S

For hose clips type HSE (© page 357)



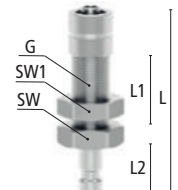
Plugs with hose squeeze nut

Hose connection	L	SW	L1	Weight	Type No.
Hose 3x4	25	8	10	12	ESMCE 34 SQ
Hose 3x5	25	8	10	12	ESMCE 3 SQ
Hose 4x6	25	8	10	12	ESMCE 4 SQ



Plugs with hose squeeze nut and bulkhead screwing

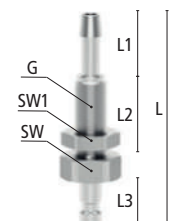
Hose connection	L	SW	L1	L2	SW1	G	Weight	Type No.
Hose 3x4	38	12	17	10	11	M 7x0.5 m	23	ESMCE 34 SQSV
Hose 3x5	38	12	17	10	11	M 7x0.5 m	23	ESMCE 35 SQSV
Hose 4x6	38	12	17	10	12	M 8x0.5 m	23	ESMCE 4 SQSV



Plugs with hose stem and bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 3	45	12	13	17	10	11	M 7x0.5 m	21	ESMCE 3 SSV
Hose i.D. 4	45	12	13	17	10	11	M 7x0.5 m	21	ESMCE 4 SSV
Hose i.D. 5	45	12	13	17	10	12	M 8x0.5 m	21	ESMCE 5 SSV

For hose clips type HSE (© page 357)

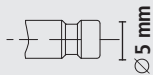


Micro Quick Connect Couplings

Series ESMCE double shut-off

DN 2.7

Plug Profile (original size)



- One-hand quick connect couplings with smallest dimensions made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- Attention: Couplings can be connected with straight-through plugs DN 2.7. However, double shut-off plugs cannot be connected with standard couplings DN 2.7
- Several fields of application, above all for liquid media in pharmacy, medical technology, chemical industry, food industry, clean-room applications, for sophisticated measure, control and regulation technology or increased hygienic requirements

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.3541
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	2.7	ISO 228 / DIN 13	150 l/min	One-hand	Double shut-off	Different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 m	26	9	10.5	5	9	ESMCE 5 AAB
G 1/8 m	28	11	10.5	7	12	ESMCE 18 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 f	25	9	10.5	5	10	ESMCE 5 IAB
G 1/8 f	28	12	10.5	7	14	ESMCE 18 IAB

Couplings with hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 3	34.5	10.5	13	9	ESMCE 3 TAB
Hose i.D. 4	34.5	10.5	13	10	ESMCE 4 TAB
Hose i.D. 5	34.5	10.5	13	10	ESMCE 5 TAB

For hose clips type HSE (© page 357)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No.
Hose 3x4	34	9	10.5	15	ESMCE 34 TQAB
Hose 3x5	34	9	10.5	15	ESMCE 3 TQAB
Hose 4x6	34	9	10.5	15	ESMCE 4 TQAB

Couplings with hose squeeze nut and bulkhead screwing

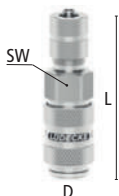
Hose connection	L	SW	D	L1	SW1	G	Weight	Type No.
Hose 3x4	45	12	10.5	17	11	M 7x0.5 m	26	ESMCE 34 TQSVAB
Hose 3x5	45	12	10.5	17	11	M 7x0.5 m	26	ESMCE 35 TQSVAB
Hose 4x6	45	12	10.5	17	12	M 8x0.5 m	26	ESMCE 4 TQSVAB

Couplings with hose stem and bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 3	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCE 3 TSVAB
Hose i.D. 4	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCE 4 TSVAB
Hose i.D. 5	51	12	10.5	13	17	12	M 8x0.5 m	24	ESMCE 5 TSVAB

For hose clips type HSE (© page 357)

*subject to media and sealing material

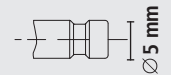


Micro Quick Connect Couplings

double shut-off **Series ESMCE**

DN 2.7

Plug Profile (original size)



Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
M 5 m	28	9	5	10	10	ESMCE 5 NAAB
G 1/8 m	30	11	7	10	12	ESMCE 18 NAAB

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
M 5 f	26.5	9	5	10	11	ESMCE 5 NIAB
G 1/8 f	30	12	7	10	14	ESMCE 18 NIAB

Plugs with hose stem

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 3	36.5	9	13	10	9	ESMCE 3 SAB
Hose i.D. 4	36.5	9	13	10	10	ESMCE 4 SAB
Hose i.D. 5	36.5	9	13	10	10	ESMCE 5 SAB

For hose clips type HSE (© page 357)

Plugs with hose squeeze nut

Hose connection	L	SW	L1	Weight	Type No.
Hose 3x4	36	9	10	10	ESMCE 34 SQAB
Hose 3x5	36	9	10	10	ESMCE 3 SQAB
Hose 4x6	36	9	10	11	ESMCE 4 SQAB

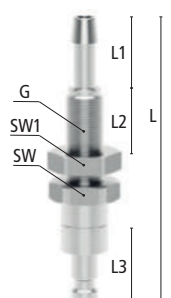
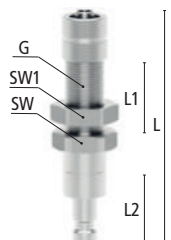
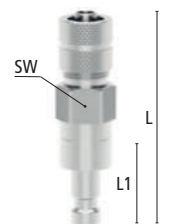
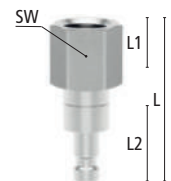
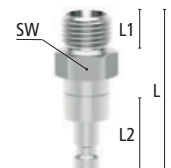
Plugs with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	L1	L2	SW1	G	Weight	Type No.
Hose 3x4	47	12	17	10	11	M 7x0.5 m	13	ESMCE 34 SQSVAB
Hose 3x5	47	12	17	10	11	M 7x0.5 m	13	ESMCE 35 SQSVAB
Hose 4x6	47	12	17	10	12	M 8x0.5 m	17	ESMCE 4 SQSVAB

Plugs with hose stem and bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 3	53	12	13	17	10	11	M 7x0.5 m	14	ESMCE 3 SSVAB
Hose i.D. 4	53	12	13	17	10	11	M 7x0.5 m	14	ESMCE 4 SSVAB
Hose i.D. 5	53	12	13	17	10	12	M 8x0.5 m	16	ESMCE 5 SSVAB

For hose clips type HSE (© page 357)

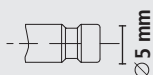


Micro Quick Connect Couplings

Series ESMCE straight-through

DN 2.7

Plug Profile (original size)



- One-hand quick connect couplings with smallest dimensions made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESMCE DN 2.7 with straight-through passage (page 287)
- Suitable for low vacuum at low couple force compared to all other compatible products
- **Several fields of application, above all for liquid media in pharmacy, medical technology, chemical industry, food industry, clean-room applications, for sophisticated measure, control and regulation technology or increased hygienic requirements**

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.3541
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	2.7	ISO 228 / DIN 13	170 l/min	One-hand	Straight-through	Different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 m	26	9	10.5	5	9	ESMCE 5 AO
G 1/8 m	28	11	10.5	7	12	ESMCE 18 AO

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
M 5 f	25	9	10.5	5	10	ESMCE 5 IO
G 1/8 f	28	12	10.5	7	14	ESMCE 18 IO

Couplings with hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 3	34.5	10.5	13	9	ESMCE 3 TO
Hose i.D. 4	34.5	10.5	13	10	ESMCE 4 TO
Hose i.D. 5	34.5	10.5	13	10	ESMCE 5 TO

For hose clips type HSE (© page 357)

Couplings with hose squeeze nut

Hose connection	L	SW	D	Weight	Type No.
Hose 3x4	34	9	10.5	15	ESMCE 34 TQO
Hose 3x5	34	9	10.5	15	ESMCE 3 TQO
Hose 4x6	34	9	10.5	15	ESMCE 4 TQO

Couplings with hose squeeze nut and bulkhead screwing

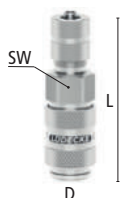
Hose connection	L	SW	D	L1	SW1	G	Weight	Type No.
Hose 3x4	45	12	10.5	17	11	M 7x0.5 m	26	ESMCE 34 TQSVO
Hose 3x5	45	12	10.5	17	11	M 7x0.5 m	26	ESMCE 35 TQSVO
Hose 4x6	45	12	10.5	17	12	M 8x0.5 m	26	ESMCE 4 TQSVO

Couplings with hose stem and bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 3	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCE 3 TSVO
Hose i.D. 4	51	12	10.5	13	17	11	M 7x0.5 m	24	ESMCE 4 TSVO
Hose i.D. 5	51	12	10.5	13	17	12	M 8x0.5 m	24	ESMCE 5 TSVO

For hose clips type HSE (© page 357)

*subject to media and sealing material



Mini Quick Connect Couplings

single shut-off **Series ESME**

- One-hand quick connect couplings with reduced dimensions made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply at increased purity and hygiene regulations or when conveying different media (gases, chemicals, lacquers, pharmaceuticals)
- Several fields of application in pharmacy, chemical industry, medical technology, food industry, clean-room applications as well as for sophisticated pneumatic applications

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.3541
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	5	ISO 228 / DIN 13	510 l/min	One-hand	Single shut-off	Different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 m	36	14	16	7	27	ESME 18 A
G 1/4 m	38	17	16	9	36	ESME 14 A
G 3/8 m	38	19	16	9	42	ESME 38 A
M 12x1.5 m	38	14	16	9	30	ESME 1215 A
M 14x1.5 m	38	17	16	9	38	ESME 1415 A

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 f	38	14	16	9	31	ESME 18 I
G 1/4 f	38	17	16	9	31	ESME 14 I
G 3/8 f	38	19	16	9	43	ESME 38 I
M 12x1.5 f	38	17	16	9	41	ESME 1215 I
M 14x1.5 f	38	17	16	9	38	ESME 1415 I

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 4	47	14	16	17	27	ESME 4 T
Hose i.D. 6	47	14	16	17	28	ESME 6 T
Hose i.D. 8	47	14	16	17	28	ESME 8 T
Hose i.D. 9	47	14	16	17	30	ESME 9 T
Hose i.D. 10	47	14	16	17	30	ESME 10 T

For hose clips type HSE (☺ page 357)

Coupling with hose squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 4x6	43	14	16	12	34	ESME 4 TQ
Hose 6x8	43	14	16	14	36	ESME 6 TQ

Couplings with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	D	L1	SW1	SW2	G	Weight	Type No.
Hose 4x6	54	14	16	18	12	12	M 10x1 m	41	ESME 4 TQSV
Hose 6x8	54	14	16	18	14	14	M 12x1 m	49	ESME 6 TQSV

Special versions on request.

Couplings with hose stem and bulkhead screwing

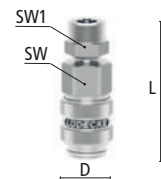
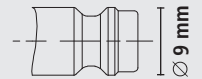
Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 5	60	17	16	17	14	17	M 12x1 m	45	ESME 5 TSV
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	45	ESME 6 TSV
Hose i.D. 8	60	17	16	17	14	17	M 12x1 m	45	ESME 8 TSV

For hose clips type HSE (☺ page 357)

*subject to media and sealing material

DN 5

Plug Profile (original size)

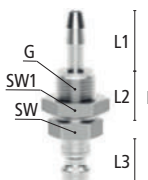
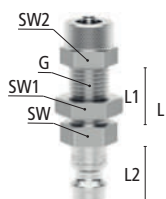
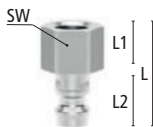
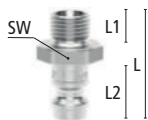
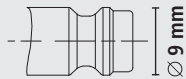


Mini Quick Connect Couplings

Series ESME single shut-off

DN 5

Plug Profile (original size)



Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	25	14	7	14	11	ESME 18 NA
G 1/4 m	28	17	9	14	19	ESME 14 NA
G 3/8 m	28	19	9	14	21	ESME 38 NA
M 10x1 m	25	14	7	14	11	ESME 101 NA
M 12x1.5 m	28	17	10	14	17	ESME 1215 NA
M 14x1.5 m	28	17	10	14	20	ESME 1415 NA

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	25	14	8	14	14	ESME 18 NI
G 1/4 f	25	17	9	14	15	ESME 14 NI
G 3/8 f	26	19	9	14	19	ESME 38 NI
M 10x1 f	26	14	9	14	18	ESME 101 NI
M 12x1.5 f	27	17	10	14	22	ESME 1215 NI
M 14x1.5 f	27	17	10	14	19	ESME 1415 NI

Plugs with hose stem

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 4	32	9	17	14	7	ESME 4 S
Hose i.D. 5	32	9	17	14	8	ESME 5 S
Hose i.D. 6	32	9	17	14	9	ESME 6 S
Hose i.D. 8	32	9	17	14	9	ESME 8 S
Hose i.D. 9	33	10	17	14	9	ESME 9 S
Hose i.D. 10	33	12	17	14	12	ESME 10 S

For hose clips type HSE (© page 357)

Plugs with hose squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No.
Hose 4x6	32	12	14	12	17	ESME 4 SQ
Hose 6x8	32	14	14	14	21	ESME 6 SQ

Plugs with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	L1	L2	SW1	SW2	G	Weight	Type No.
Hose 4x6	44	12	18	14	14	14	M 10x1 m	27	ESME 4 SQSV
Hose 6x8	44	14	18	14	17	14	M 12x1 m	35	ESME 6 SQSV

Plugs with hose barb and bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 5	50	14	17	14	14	17	M 12x1 m	28	ESME 5 SSV
Hose i.D. 6	50	14	17	14	14	17	M 12x1 m	28	ESME 6 SSV
Hose i.D. 8	50	14	17	14	14	17	M 12x1 m	28	ESME 8 SSV

For hose clips type HSE (© page 357)

Mini Quick Connect Couplings

double shut-off Series ESME

- One-hand quick connect couplings with reduced dimensions made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- Attention: Couplings can be connected with straight-through plugs DN 5. However, double shut-off plugs cannot be connected with standard couplings DN 5
- Several fields of application, above all for liquid media in pharmacy, medical technology, chemical industry, food industry, clean-room applications, for sophisticated measure, control and regulation technology or increased hygienic requirements

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.3541
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	5	ISO 228 / DIN 13	330 l/min	One-hand	Double shut-off	Different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 m	36	14	16	7	28	ESME 18 AAB
G 1/4 m	38	17	16	9	37	ESME 14 AAB
G 3/8 m	38	19	16	9	43	ESME 38 AAB
M 12x1.5 m	38	14	16	9	30	ESME 1215 AAB
M 14x1.5 m	38	17	16	9	38	ESME 1415 AAB

NEW!
NEW!

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 f	38	14	16	9	32	ESME 18 IAB
G 1/4 f	38	17	16	9	32	ESME 14 IAB
G 3/8 f	38	19	16	9	44	ESME 38 IAB
M 12x1.5 f	38	17	16	9	41	ESME 1215 IAB
M 14x1.5 f	38	17	16	9	38	ESME 1415 IAB

NEW!
NEW!

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 4	47	14	16	17	28	ESME 4 TAB
Hose i.D. 6	47	14	16	17	29	ESME 6 TAB
Hose i.D. 8	47	14	16	17	29	ESME 8 TAB
Hose i.D. 9	47	14	16	17	31	ESME 9 TAB
Hose i.D. 10	47	14	16	17	31	ESME 10 TAB

For hose clips type HSE (© page 357)

Couplings with hose squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 4x6	43	14	16	12	35	ESME 4 TQAB
Hose 6x8	43	14	16	14	37	ESME 6 TQAB

Couplings with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	D	L1	SW1	SW2	G	Weight	Type No.
Hose 4x6	54	14	16	18	12	12	M 10x1 m	42	ESME 4 TQSVAB
Hose 6x8	54	14	16	18	14	14	M 12x1 m	50	ESME 6 TQSVAB

Couplings with hose stem and bulkhead screwing

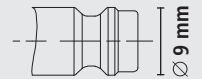
Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 5	60	17	16	17	14	17	M 12x1 m	46	ESME 5 TSVAB
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	46	ESME 6 TSVAB
Hose i.D. 8	60	17	16	17	14	17	M 12x1 m	47	ESME 8 TSVAB

For hose clips type HSE (© page 357)

*subject to media and sealing material

DN 5

Plug Profile (original size)

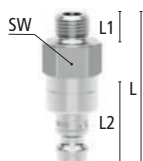
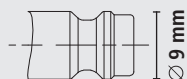


Mini Quick Connect Couplings

Series ESME double shut-off

DN 5

Plug Profile (original size)



Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 m	40	14	7	14	22	ESME 18 NAAB
G 1/4 m	42	17	9	14	31	ESME 14 NAAB
G 3/8 m	42	19	9	14	37	ESME 38 NAAB
M 10x1 m	40	14	7	14	25	ESME 101 NAAB
M 12x1.5 m	42	17	9	14	31	ESME 1215 NAAB
M 14x1.5 m	42	17	9	14	33	ESME 1415 NAAB

NEW!
NEW!



Plugs with female thread

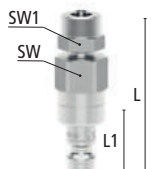
Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/8 f	42	14	9	14	26	ESME 18 NIAB
G 1/4 f	42	17	9	14	35	ESME 14 NIAB
G 3/8 f	42	19	9	14	37	ESME 38 NIAB
M 10x1 f	42	14	9	14	26	ESME 101 NIAB
M 12x1.5 f	42	17	9	14	36	ESME 1215 NIAB
M 14x1.5 f	42	17	9	14	33	ESME 1415 NIAB



Plugs with hose stem

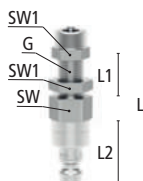
Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 4	50	14	17	14	21	ESME 4 SAB
Hose i.D. 6	50	14	17	14	22	ESME 6 SAB
Hose i.D. 8	50	14	17	14	23	ESME 8 SAB
Hose i.D. 9	50	14	17	14	23	ESME 9 SAB
Hose i.D. 10	50	14	17	14	24	ESME 10 SAB

For hose clips type HSE (© page 357)



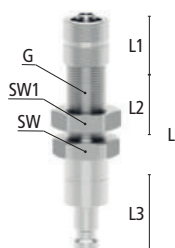
Plugs with hose squeeze nut

Hose connection	L	SW	L1	SW1	Weight	Type No.
Hose 4x6	46	14	14	12	29	ESME 4 SQAB
Hose 6x8	46	14	14	14	31	ESME 6 SQAB



Plugs with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	L1	L2	SW1	SW2	G	Weight	Type No.
Hose 4x6	58	14	18	14	14	12	M 10x1 m	36	ESME 4 SQSVAB
Hose 6x8	58	14	18	14	17	14	M 12x1 m	43	ESME 6 SQSVAB



Plugs with bulkhead screwing

Hose connection	L	SW	L1	L2	L3	SW1	G	Weight	Type No.
Hose i.D. 5	63	17	14	14	14	17	M 12x1 m	38	ESME 5 SSVAB
Hose i.D. 6	63	17	14	14	14	17	M 12x1 m	38	ESME 6 SSVAB
Hose i.D. 8	63	17	14	14	14	17	M 12x1 m	38	ESME 8 SSVAB

For hose clips type HSE (© page 357)

Mini Quick Connect Couplings

straight-through Series ESME

- One-hand quick connect couplings with reduced dimensions made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESME DN 5 with straight-through passage (page 292)
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply at increased purity and hygiene regulations or when conveying different media (gases, chemicals, lacquers, pharmaceuticals)
- Several fields of application in pharmacy, chemical industry, medical technology, food industry, clean-room applications as well as for sophisticated pneumatic applications

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.3541
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	5	ISO 228 / DIN 13	620 l/min	One-hand	Straight-through	Different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 m	36	14	16	7	28	ESME 18 AO
G 1/4 m	38	17	16	9	37	ESME 14 AO
G 3/8 m	38	19	16	9	43	ESME 38 AO
M 12x1.5 m	38	14	16	9	30	ESME 1215 AO
M 14x1.5 m	38	17	16	9	38	ESME 1415 AO

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/8 f	38	14	16	9	32	ESME 18 IO
G 1/4 f	38	17	16	9	32	ESME 14 IO
G 3/8 f	38	19	16	9	44	ESME 38 IO
M 12x1.5 f	38	17	16	9	41	ESME 1215 IO
M 14x1.5 f	38	17	16	9	38	ESME 1415 IO

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 4	47	14	16	17	28	ESME 4 TO
Hose i.D. 6	47	14	16	17	29	ESME 6 TO
Hose i.D. 8	47	14	16	17	29	ESME 8 TO
Hose i.D. 9	47	14	16	17	31	ESME 9 TO
Hose i.D. 10	47	14	16	17	31	ESME 10 TO

For hose clips type HSE (☺ page 357)

Couplings with hose squeeze nut

Hose connection	L	SW	D	SW1	Weight	Type No.
Hose 4x6	43	14	16	12	35	ESME 4 TQO
Hose 6x8	43	14	16	14	37	ESME 6 TQO

Couplings with hose squeeze nut and bulkhead screwing

Hose connection	L	SW	D	L1	SW1	SW2	G	Weight	Type No.
Hose 4x6	54	14	16	18	12	12	M 10x1 m	42	ESME 4 TQSVO
Hose 6x8	54	14	16	18	14	14	M 12x1 m	50	ESME 6 TQSVO

Couplings with hose stem and bulkhead screwing

Hose connection	L	SW	D	L1	L2	SW1	G	Weight	Type No.
Hose i.D. 5	60	17	16	17	14	17	M 12x1 m	46	ESME 5 TSVO
Hose i.D. 6	60	17	16	17	14	17	M 12x1 m	46	ESME 6 TSVO
Hose i.D. 8	60	17	16	17	14	17	M 12x1 m	47	ESME 8 TSVO

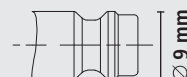
For hose clips type HSE (☺ page 357)

Special versions on request

*subject to media and sealing material

DN 5

Plug Profile (original size)

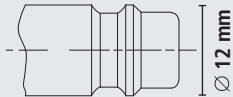


Quick Connect Couplings

Series ESE single shut-off

DN 7.2

Plug Profile (original size)



- Universal one-hand quick connect couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply at increased purity and hygiene regulations or when conveying different media (gases, chemicals, lacquers, pharmaceuticals)
- Several fields of application in pharmacy, chemical industry, medical technology, food industry, clean-room applications as well as for sophisticated pneumatic applications

Materials

- Body, sleeve, valve body, valve, pins, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	7,2	ISO 228	1150 l/min	One-hand	Single shut-off	Different	Worldwide	Coupl. 1/ Plug 5

Couplings with parallel male thread

Thread connection	L	SW	D	L1	Weight	Type No. smooth	Type No. knurled
G 1/4 m	41	22	27	9	82	ESEG 14 A	ESER 14 A
G 3/8 m	42	22	27	10	82	ESEG 38 A	ESER 38 A
G 1/2 m	44	24	27	12	95	ESEG 12 A	ESER 12 A

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No. smooth	Type No. knurled
G 1/4 f	41.5	22	27	10.5	83	ESEG 14 I	ESER 14 I
G 3/8 f	41.5	22	27	10.5	83	ESEG 38 I	ESER 38 I
G 1/2 f	43	24	27	12	92	ESEG 12 I	ESER 12 I

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No. smooth	Type No. knurled
Hose i.D. 6	56	22	27	25	92	ESEG 6 T	ESER 6 T
Hose i.D. 8	56	22	27	25	92	ESEG 8 T	ESER 8 T
Hose i.D. 9	56	22	27	25	92	ESEG 9 T	ESER 9 T
Hose i.D. 10	56	22	27	25	93	ESEG 10 T	ESER 10 T
Hose i.D. 13	56	22	27	25	95	ESEG 13 T	ESER 13 T

For hose clips type HSE (© page 357)

Couplings with hose squeeze nut

Hose connection	L	SW	D	L1	SW1	Weight	Type No. smooth	Type No. knurled
Hose 8x12	48	22	27	9.5	17	107	ESEG 812 TQ	ESER 812 TQ

O-rings approved for the food industry (VO 1935/2004)

*subject to media and sealing material

Available with smooth surface to avoid dirt from collecting
at increased hygiene regulations or with knurled sleeve

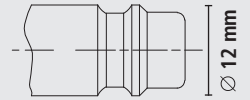


Quick Connect Couplings

single shut-off **Series ESE**

DN 7.2

Plug Profile (original size)



Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	33	17	9	20	22	ESE 14 NA
G 3/8 m	33	19	9	20	25	ESE 38 NA
G 1/2 m	37	24	12	20	45	ESE 12 NA



Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	32	17	10	20	20	ESE 14 NI
G 3/8 f	32	19	10	20	25	ESE 38 NI
G 1/2 f	35	24	12	20	36	ESE 12 NI



Plugs with hose stem

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	46	12	25	20	13	ESE 6 S
Hose i.D. 8	46	12	25	20	15	ESE 8 S
Hose i.D. 9	46	12	25	20	14	ESE 9 S
Hose i.D. 10	46	12	25	20	17	ESE 10 S
Hose i.D. 13	46	12	25	20	24	ESE 13 S

For hose clips type HSE (☺ page 357)



Plugs with hose squeeze nut

Hose connection	L	SW	L1	L2	SW1	Weight	Type No.
Hose 8x12	42	17	9.5	20	19	51	ESE 812 SQ

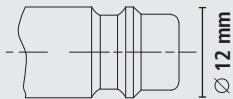


Quick Connect Couplings

Series ESE double shut-off

DN 7.2

Plug Profile (original size)



- Universal one-hand quick connect couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- Attention: Couplings can be connected with straight-through plugs DN 7.2. However, double shut-off plugs cannot be connected with standard couplings DN 7.2
- **Several fields of application, above all for liquid media in plant construction, measure and regulation technology, pharmacy, medical technology, chemical industry, food industry as well as for increased purity and hygiene regulations**

Materials

- Body, sleeve, valve body, valve, pins, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	7,2	ISO 228	660 l/min	One-hand	Double shut-off	Different	Worldwide	Coupl. 1/ Plug 5

Couplings with parallel male thread

Thread connection	L	SW	D	L1	Weight	Type No. smooth	Type No. knurled
G 1/4 m	41	22	27	9	82	ESEG 14 AAB	ESER 14 AAB
G 3/8 m	42	22	27	10	82	ESEG 38 AAB	ESER 38 AAB
G 1/2 m	44	24	27	12	95	ESEG 12 AAB	ESER 12 AAB

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No. smooth	Type No. knurled
G 1/4 f	41.5	22	27	10.5	83	ESEG 14 IAB	ESER 14 IAB
G 3/8 f	41.5	22	27	10.5	83	ESEG 38 IAB	ESER 38 IAB
G 1/2 f	43	24	27	12	92	ESEG 12 IAB	ESER 12 IAB

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No. smooth	Type No. knurled
Hose i.D. 6	56	22	27	25	92	ESEG 6 TAB	ESER 6 TAB
Hose i.D. 8	56	22	27	25	92	ESEG 8 TAB	ESER 8 TAB
Hose i.D. 9	56	22	27	25	92	ESEG 9 TAB	ESER 9 TAB
Hose i.D. 10	56	22	27	25	93	ESEG 10 TAB	ESER 10 TAB
Hose i.D. 13	56	22	27	25	95	ESEG 13 TAB	ESER 13 TAB

For hose clips type HSE (© page 357)

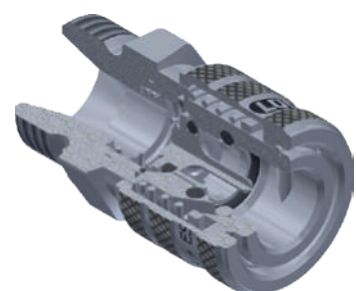
Couplings with hose squeeze nut

Hose connection	L	SW	D	L1	SW1	Weight	Type No. smooth	Type No. knurled
Hose 8x12	48	22	27	9.5	17	107	ESEG 812 TQAB	ESER 812 TQAB

O-rings approved for the food industry (VO 1935/2004)

*subject to media and sealing materials

Available with smooth surface to avoid dirt from collecting at increased hygiene regulations or with knurled sleeve

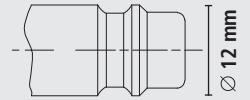


Quick Connect Couplings

double shut-off **Series ESE**

DN 7.2

Plug Profile (original size)



Plugs with parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	43	22	9	20	52	ESE 14 NAAB
G 3/8 m	45	22	10	20	55	ESE 38 NAAB
G 1/2 m	47	24	12	20	62	ESE 12 NAAB

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	44	22	10.5	20	55	ESE 14 NIAB
G 3/8 f	44	22	10.5	20	55	ESE 38 NIAB
G 1/2 f	45.5	24	12	20	62	ESE 12 NIAB

Plugs with hose stem

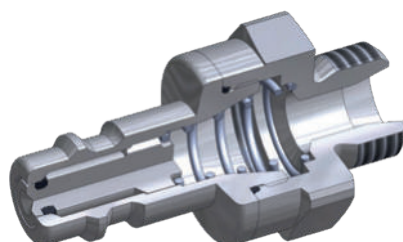
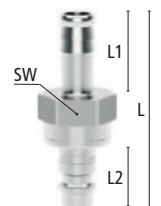
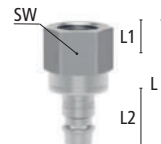
Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 6	54	22	25	20	55	ESE 6 SAB
Hose i.D. 8	54	22	25	20	55	ESE 8 SAB
Hose i.D. 9	54	22	25	20	55	ESE 9 SAB
Hose i.D. 10	54	22	25	20	56	ESE 10 SAB
Hose i.D. 13	54	22	25	20	57	ESE 13 SAB

For hose clips type HSE (© page 357)

NEW!

Plugs with hose squeeze nut

Hose connection	L	SW	L1	L2	SW1	Weight	Type No.
Hose 8x12	42	17	9.5	20	19	51	ESE 812 SQAB

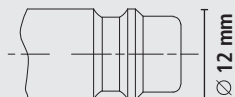


Quick Connect Couplings

Series ESE straight-through

DN 7.2

Plug Profile (original size)



- Universal one-hand quick connect couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESE DN 7.2 with straight-through passage (page 297)
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply at increased purity and hygiene regulations or when conveying different media (gases, chemicals, lacquers, pharmaceuticals)
- Several fields of application in pharmacy, chemical industry, medical technology, food industry, clean-room applications as well as for sophisticated pneumatic applications

Materials

- Body, sleeve, valve body, valve, pins, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	7.2	ISO 228	2150 l/min	One-hand	Straight-through	Different	Worldwide	Coupl. 1/ Plug 5

Couplings with parallel male thread

Thread connection	L	SW	D	L1	Weight	Type No. smooth	Type No. knurled
G 1/4 m	41	22	27	9	82	ESEG 14 AO	ESER 14 AO
G 3/8 m	42	22	27	10	82	ESEG 38 AO	ESER 38 AO
G 1/2 m	44	24	27	12	95	ESEG 12 AO	ESER 12 AO

Couplings with parallel female thread

Thread connection	L	SW	D	L1	Weight	Type No. smooth	Type No. knurled
G 1/4 f	41.5	22	27	10.5	83	ESEG 14 IO	ESER 14 IO
G 3/8 f	41.5	22	27	10.5	83	ESEG 38 IO	ESER 38 IO
G 1/2 f	43	24	27	12	92	ESEG 12 IO	ESER 12 IO

Couplings with parallel hose stem

Hose connection	L	SW	D	L1	Weight	Type No. smooth	Type No. knurled
Hose i.D. 6	56	22	27	25	92	ESEG 6 TO	ESER 6 TO
Hose i.D. 8	56	22	27	25	92	ESEG 8 TO	ESER 8 TO
Hose i.D. 9	56	22	27	25	92	ESEG 9 TO	ESER 9 TO
Hose i.D. 10	56	22	27	25	93	ESEG 10 TO	ESER 10 TO
Hose i.D. 13	56	22	27	25	95	ESEG 13 TO	ESER 13 TO

For hose clips type HSE (© page 357)

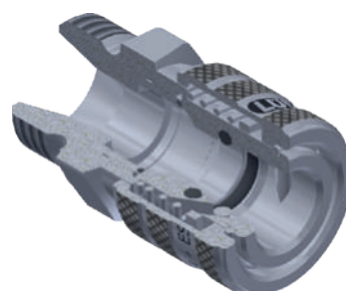
Couplings with hose squeeze nut

Hose connection	L	SW	D	L1	SW1	Weight	Type No. smooth	Type No. knurled
Hose 8x12	48	22	27	9.5	17	107	ESEG 812 TQO	ESER 812 TQO

O-rings approved for the food industry (VO 1935/2004)

*subject to media and sealing materials

Available with smooth surface to avoid dirt from collecting at increased hygiene regulations or with knurled sleeve



Industrial Quick Connect Couplings

single shut-off **Series ESIE**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Collar version: protection for valve body
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE®** valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- **Several fields of application, above all for liquid media in plant construction, measure, control and regulation technology, pharmacy, medical technology, chemical industry, food industry as well as for increased purity and hygiene regulations**
- Also interchangeable with plug profile ESE DN 7.2

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM (EPDM, FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	7,8	ISO 228	2000 l/min	One-hand	Single shut-off	Different	Europe	Coupl. 1/ Plug 5

NEW!

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	57.5	19	23.5	9	97	ESIE 14 A
G 3/8 m	58.5	19	23.5	10	101	ESIE 38 A
G 1/2 m	60.5	24	23.5	12	130	ESIE 12 A

NEW!

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	57.5	19	23.5	10	106	ESIE 14 I
G 3/8 f	57.5	19	23.5	10	100	ESIE 38 I
G 1/2 f	59.5	24	23.5	12	133	ESIE 12 I

NEW!

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73.5	19	23.5	25	97	ESIE 6 T
Hose i.D. 8	73.5	19	23.5	25	98	ESIE 8 T
Hose i.D. 9	73.5	19	23.5	25	99	ESIE 9 T
Hose i.D. 10	73.5	19	23.5	25	99	ESIE 10 T
Hose i.D. 13	73.5	19	23.5	25	101	ESIE 13 T

For hose clips type HSE (© page 357)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	33	17	9	20	22	ESE 14 NA
G 3/8 m	33	19	9	20	25	ESE 38 NA
G 1/2 m	37	24	12	20	45	ESE 12 NA

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	32	17	10	20	20	ESE 14 NI
G 3/8 f	32	19	10	20	25	ESE 38 NI
G 1/2 f	35	24	12	20	36	ESE 12 N

Plugs with hose stem

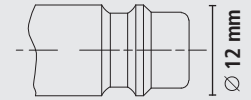
Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 6	46	12	25	20	13	ESE 6 S
Hose i.D. 8	46	12	25	20	15	ESE 8 S
Hose i.D. 9	46	12	25	20	14	ESE 9 S
Hose i.D. 10	46	12	25	20	17	ESE 10 S
Hose i.D. 13	46	12	25	20	24	ESE 13 S

For hose clips type HSE (© page 357)

*subject to media and sealing materials

DN 7.8

Plug Profile (original size)



Opti®
Flow
by **LUDECKE**

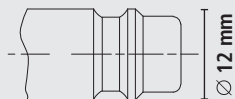


Industrial Quick Connect Couplings

Series ESIE double shut-off

DN 7.8

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Collar version: protection for valve body
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- Several fields of application, above all for liquid media in plant construction, measure, control and regulation technology, pharmacy, medical technology, chemical industry, food industry as well as for increased purity and hygiene regulations
- Also interchangeable with plug profile ESE DN 7.2

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs: Stainless Steel 1.4310 • Balls: Stainless Steel 1.4034 • Seals: FKM (EPDM, FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	7.8	ISO 228	670 l/min	One-hand	Double shut-off	Different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	57.5	19	23.5	9	97	ESIE 14 AAB
G 3/8 m	58.5	19	23.5	10	101	ESIE 38 AAB
G 1/2 m	60.5	24	23.5	12	130	ESIE 12 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	57.5	19	23.5	10	106	ESIE 14 IAB
G 3/8 f	57.5	19	23.5	10	100	ESIE 38 IAB
G 1/2 f	59.5	24	23.5	12	133	ESIE 12 IAB

Plugs with hose stem

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73.5	19	23.5	25	97	ESIE 6 TAB
Hose i.D. 8	73.5	19	23.5	25	98	ESIE 8 TAB
Hose i.D. 9	73.5	19	23.5	25	99	ESIE 9 TAB
Hose i.D. 10	73.5	19	23.5	25	99	ESIE 10 TAB
Hose i.D. 13	73.5	19	23.5	25	101	ESIE 13 TAB

For hose clips type HSE (© page 357)

Plugs with parallel male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 m	43	22	9	20	52	ESE 14 NAAB
G 3/8 m	45	22	10	20	55	ESE 38 NAAB
G 1/2 m	47	24	12	20	62	ESE 12 NAAB

Plugs with parallel female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/4 f	44	22	10.5	20	55	ESE 14 NIAB
G 3/8 f	44	22	10.5	20	55	ESE 38 NIAB
G 1/2 f	45.5	24	12	20	62	ESE 12 NIAB

Plugs with hose stem

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 6	54	22	25	20	55	ESE 6 SAB
Hose i.D. 8	54	22	25	20	55	ESE 8 SAB
Hose i.D. 9	54	22	25	20	55	ESE 9 SAB
Hose i.D. 10	54	22	25	20	56	ESE 10 SAB
Hose i.D. 13	54	22	25	20	57	ESE 13 SAB

For hose clips type HSE (© page 357)

*subject to media and sealing materials

Opti®
Flow
by **LUDECKE**



Industrial Quick Connect Couplings

straight-through Series ESIE

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESIE DN 7.8 (page 301) or series ESE DN 7.2 (page 297) with straight-through passage
- Collar version: protection for valve body
- High flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- Several fields of application, above all for liquid media in plant construction, measure, control and regulation technology, pharmacy, medical technology, chemical industry, food industry as well as for increased purity and hygiene regulations

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs: Stainless Steel 1.4310 • Balls: Stainless Steel 1.4034 • Seals: FKM (EPDM, FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	7.8	ISO 228	2800 l/min	One-hand	Straight-through	Different	Europe	Coupl. 1/ Plug 5

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 m	57.5	19	23.5	9	97	ESIE 14 AO
G 3/8 m	58.5	19	23.5	10	101	ESIE 38 AO
G 1/2 m	60.5	24	23.5	12	130	ESIE 12 AO

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/4 f	57.5	19	23.5	10	106	ESIE 14 IO
G 3/8 f	57.5	19	23.5	10	100	ESIE 38 IO
G 1/2 f	59.5	24	23.5	12	133	ESIE 12 IO

Couplings with hose stem

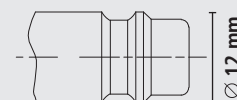
Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 6	73.5	19	23.5	25	97	ESIE 6 TO
Hose i.D. 8	73.5	19	23.5	25	98	ESIE 8 TO
Hose i.D. 9	73.5	19	23.5	25	99	ESIE 9 TO
Hose i.D. 10	73.5	19	23.5	25	99	ESIE 10 TO
Hose i.D. 13	73.5	19	23.5	25	101	ESIE 13 TO

For hose clips type HSE (☺ page 357)

*subject to media and sealing materials

DN 7.8

Plug Profile (original size)

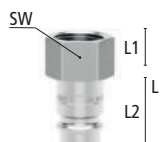
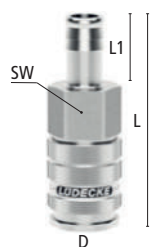
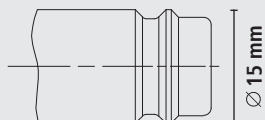


Industrial Quick Connect Couplings

Series ESIGE single shut-off

DN 10

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Collar version: protection for valve body
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- **Several fields of application, above all for liquid media in plant construction, measure, control and regulation technology, pharmacy, medical technology, chemical industry, food industry as well as for increased purity and hygiene regulations**

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM (NBR on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	10	ISO 228	3200 l/min	One-hand	Single shut-off	Different	Europe	1

NEW!

Couplings with male thread

Thread connection	L	SW	L1	D	Weight	Type No.
G 3/8 m	61.5	24	10	27	144	ESIGE 38 A
G 1/2 m	63.5	24	12	27	148	ESIGE 12 A
G 3/4 m	67.5	32	16	27	213	ESIGE 34 A

NEW!

Couplings with female thread

Thread connection	L	SW	L1	D	Weight	Type No.
G 3/8 f	56.5	24	11	27	146	ESIGE 38 I
G 1/2 f	56.5	24	12	27	138	ESIGE 12 I
G 3/4 f	67.5	32	16	27	213	ESIGE 34 I

NEW!

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	76.5	24	27	25	145	ESIGE 9 T
Hose i.D. 10	76.5	24	27	25	144	ESIGE 10 T
Hose i.D. 13	76.5	24	27	25	147	ESIGE 13 T
Hose i.D. 16	76.5	24	27	25	149	ESIGE 16 T
Hose i.D. 19	76.5	24	27	25	151	ESIGE 19 T

For hose clips type HSE (© page 357)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 m	35.5	19	9	21	30	ESIGE 38 NA
G 1/2 m	38.5	24	12	21	50	ESIGE 12 NA
G 3/4 m	43	32	16	21	83	ESIGE 34 NA

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	36	19	12	21	28	ESIGE 38 NI
G 1/2 f	37	24	12	21	45	ESIGE 12 NI
G 3/4 f	42	32	16	21	92	ESIGE 34 NI

Plugs with hose stem

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 9	46.5	15	25	21	21	ESIGE 9 S
Hose i.D. 10	46.5	15	25	21	21	ESIGE 10 S
Hose i.D. 13	46.5	15	25	21	28	ESIGE 13 S
Hose i.D. 16	48	20	25	21	33	ESIGE 16 S
Hose i.D. 19	48	24	25	21	39	ESIGE 19 S

For hose clips type HSE (© page 357)

*subject to media and sealing material



Industrial Quick Connect Couplings

double shut-off Series ESIGE

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Collar version: protection for valve body
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- Attention: Couplings can be connected with straight-through plugs DN 10. However, double shut-off plugs cannot be connected with standard couplings DN 10
- Several fields of application, above all for liquid media in plant construction, measure, control and regulation technology, pharmacy, medical technology, chemical industry, food industry as well as for increased purity and hygiene regulations

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs: Stainless Steel 1.4310 • Balls: Stainless Steel 1.4034 • Seals: FKM (NBR on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	10	ISO 228	1070 l/min	One-hand	Double shut-off	Different	Europe	1

Couplings with male thread

Thread connection	L	SW	L1	D	Weight	Type No.
G 3/8 m	61.5	24	10	27	144	ESIGE 38 AAB
G 1/2 m	63.5	24	12	27	148	ESIGE 12 AAB
G 3/4 m	67.5	32	16	27	213	ESIGE 34 AAB

Couplings with female thread

Thread connection	L	SW	L1	D	Weight	Type No.
G 3/8 f	56.5	24	11	27	146	ESIGE 38 IAB
G 1/2 f	56.5	24	12	27	138	ESIGE 12 IAB
G 3/4 f	67.5	32	16	27	213	ESIGE 34 IAB

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	76.5	24	27	25	145	ESIGE 9 TAB
Hose i.D. 10	76.5	24	27	25	144	ESIGE 10 TAB
Hose i.D. 13	76.5	24	27	25	147	ESIGE 13 TAB
Hose i.D. 16	76.5	24	27	25	149	ESIGE 16 TAB
Hose i.D. 19	76.5	24	27	25	151	ESIGE 19 TAB

For hose clips type HSE (☺ page 357)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 m	59.5	24	10	21	88	ESIGE 38 NAAB
G 1/2 m	61.5	24	12	21	93	ESIGE 12 NAAB
G 3/4 m	65.5	32	16	21	157	ESIGE 34 NAAB

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	54.5	24	11	21	90	ESIGE 38 NIAB
G 1/2 f	54.5	24	12	21	82	ESIGE 12 NIAB
G 3/4 f	58.5	32	16	21	145	ESIGE 34 NIAB

Plugs with hose stem

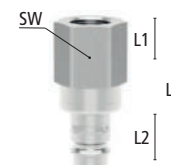
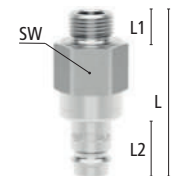
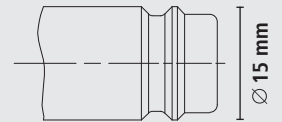
Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 9	74.5	24	25	21	89	ESIGE 9 SAB
Hose i.D. 10	74.5	24	25	21	88	ESIGE 10 SAB
Hose i.D. 13	74.5	24	25	21	91	ESIGE 13 SAB
Hose i.D. 16	74.5	24	25	21	94	ESIGE 16 SAB
Hose i.D. 19	74.5	24	25	21	95	ESIGE 19 SAB

For hose clips type HSE (☺ page 357)

*subject to media and sealing material

DN 10

Plug Profile (original size)



OptiFlow
by **LUDECKE**

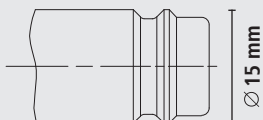


Industrial Quick Connect Couplings

Series ESIGE straight-through

DN 10

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Straight-through passage for optimised flow capacity, particularly for water/ liquid applications
- Please connect with plug series ESIGE DN 10 with straight-through passage (page 304)
- Collar version: protection for valve body
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- Several fields of application, above all for liquid media in plant construction, measure, control and regulation technology, pharmacy, medical technology, chemical industry, food industry as well as for increased purity and hygiene regulations

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs: Stainless Steel 1.4310 • Balls: Stainless Steel 1.4034 • Seals: FKM (NBR on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-15°C – +200°C*	10	ISO 228	4000 l/min	One-hand	Straight-through	Different	Europe	1

Couplings with male thread

Thread connection	L	SW	L1	D	Weight	Type No.
G 3/8 m	61.5	24	10	27	144	ESIGE 38 AO
G 1/2 m	63.5	24	12	27	148	ESIGE 12 AO
G 3/4 m	67.5	32	16	27	213	ESIGE 34 AO

Couplings with female thread

Thread connection	L	SW	L1	D	Weight	Type No.
G 3/8 f	56.5	24	11	27	146	ESIGE 38 IO
G 1/2 f	56.5	24	12	27	138	ESIGE 12 IO
G 3/4 f	67.5	32	16	27	213	ESIGE 34 IO

Couplings with hose stem

Hose connection	L	SW	D	L1	Weight	Type No.
Hose i.D. 9	76.5	24	27	25	145	ESIGE 9 TO
Hose i.D. 10	76.5	24	27	25	144	ESIGE 10 TO
Hose i.D. 13	76.5	24	27	25	147	ESIGE 13 TO
Hose i.D. 16	76.5	24	27	25	149	ESIGE 16 TO
Hose i.D. 19	76.5	24	27	25	151	ESIGE 19 TO

For hose clips type HSE (☹ page 357)

*subject to media and sealing material

Industrial Quick Connect Couplings

single shut-off **Series ESGE**

- Top-quality, extreme robust one-hand quick connect couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Maximum flow rates with low pressure drop due to streamlined valve with high-volume media flow paired with shut-off functionality through one-hand operation
- For compressed air supply and liquid media in industry, handcrafts, at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction
- Adheres to the German Clean Air Act "TA-Luft" for industrial production plants

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	19	ISO 228	8000 l/min	One-hand	Single shut-off	Different	Europe	1

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/4 m	95	41	46	16	575	ESGE 34 AAB
G 1 m	98	41	46	19	606	ESGE 10 AAB
G 1 1/4 m	98	46	46	19	695	ESGE 54 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/4 f	99	41	46	20	694	ESGE 34 IAB
G 1 f	99	41	46	21	641	ESGE 10 IAB
G 1 1/4 f	104	50	46	22	884	ESGE 54 IAB

Couplings with hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 19	128	46	36	613	ESGE 19 TAB
Hose i.D. 25	129	46	48	640	ESGE 25 TAB

For hose clips type HSE (© page 357)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/4 m	60	32	16	34	142	ESGE 34 NA
G 1 m	65	36	19	34	194	ESGE 10 NA
G 1 1/4 m	68	46	19	34	307	ESGE 54 NA

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/4 f	58	32	20	34	151	ESGE 34 NI
G 1 f	68	41	24	34	297	ESGE 10 NI
G 1 1/4 f	70	50	26	34	413	ESGE 54 NI

Plugs with hose stem

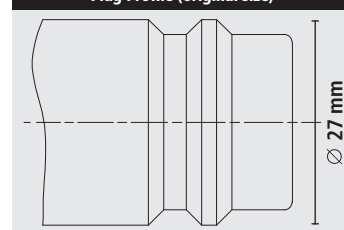
Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 19	75	30	36	34	161	ESGE 19 S
Hose i.D. 25	87	35	48	34	175	ESGE 25 S

For hose clips type HSE (© page 357)

*subject to media and sealing material

DN 19

Plug Profile (original size)

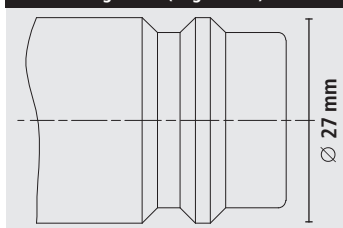


Industrial Quick Connect Couplings

Series ESGE double shut-off

DN 19

Plug Profile (original size)



- Top-quality, extreme robust one-hand quick connect couplings made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Maximum flow rates with low pressure drop due to streamlined valve with high-volume media flow paired with shut-off functionality through one-hand operation
- For compressed air supply and liquid media in industry, handcrafts, at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction
- Adheres to the German Clean Air Act "TA-Luft" for industrial production plants

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	DN	Thread	Flow Rate	Operation	Type of valve	Media	Area	
PN 35 bar	-20°C – +200°C*	19	ISO 228	2600 l/min	One-hand	Double shut-off	Different	Europe	1

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/4 m	95	41	46	16	575	ESGE 34 AAB
G 1 m	98	41	46	19	606	ESGE 10 AAB
G 1 1/4 m	98	46	46	19	695	ESGE 54 AAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 3/4 f	99	41	46	20	694	ESGE 34 IAB
G 1 f	99	41	46	21	641	ESGE 10 IAB
G 1 1/4 f	104	50	46	22	884	ESGE 54 IAB

Couplings with hose stem

Hose connection	L	D	L1	Weight	Type No.
Hose i.D. 19	128	46	36	613	ESGE 19 TAB
Hose i.D. 25	129	46	48	640	ESGE 25 TAB

For hose clips type HSE (© page 357)

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/4 m	92	41	16	34	372	ESGE 34 NAAB
G 1 m	95	41	19	34	403	ESGE 10 NAAB
G 1 1/4 m	95	46	19	34	492	ESGE 54 NAAB

Plugs with female thread

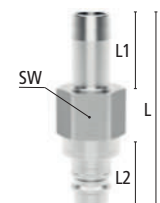
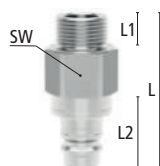
Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/4 f	96	41	20	34	491	ESGE 34 NIAB
G 1 f	96	41	21	34	438	ESGE 10 NIAB
G 1 1/4 f	101	50	22	34	681	ESGE 54 NIAB

Plugs with hose stem

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose i.D. 19	116	41	36	34	410	ESGE 19 SAB
Hose i.D. 25	126	41	48	34	437	ESGE 25 SAB

For hose clips type HSE (© page 357)

*subject to media and sealing material



MODY CleanConnect Spiral Hoses made of Polyurethane

Both Sides with Straight Ends for the Food Industry and Pharmacy

- High resistance to abrasion, pressure and wear as well as extreme and constant recoil of the spirals
- Perfect elasticity, flexibility, can be driven over, crush-resistant, free of taste and smell
- Resistant to microbes and hydrolysis, oil, gas and chemicals, good cold flexibility
- Polyurethane food-safe according to FDA 21 CFR 177.2600 and 178.2010, EU regulation 10/2011 and the newest regulation 2015/174
- Approved according to the EU regulation 1935/2004
- Production process according to GMP EC 2023/2006
- For pneumatic applications as well as for liquids, gases and abrasive solids
- For applications in the food industry (e.g. food conveying: dry, watery, acidic and fatty foods), pharmaceutical industry (FDA, EU regulation)

Materials

- Hose: Polyurethane (polyether-based polyurethane)
- Coupling, plug: Stainless steel 1.4305

Max. Work. Pressure	Temperature	Media	Colours	Short End	Long End	
PN 12 bar	-40°C – +90°C	Diverse	Transparent	100	500	1

MODY CleanConnect Spiral Hoses made of Polyurethane

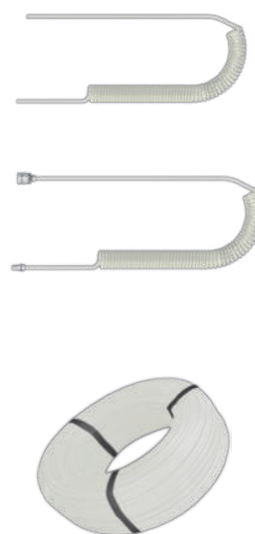
Hose- i.D./-o.D.	Connection	Max. Work. Length	Hose Length	Block Length	Outer Spiral Ø	Weight	Type No.
8/12	without	3000	4700	240	75	345	PUL 8123
8/12	without	6000	7600	400	75	555	PUL 8126
8/12	without	8000	9700	540	75	710	PUL 8128
8/12	ESE-coupling + plug rigid	3000	4700	240	75	505	PUL 8123 ESE
8/12	ESE-coupling + plug rigid	6000	7600	400	75	715	PUL 8126 ESE
8/12	ESE-coupling + plug rigid	8000	9700	540	75	870	PUL 8128 ESE

MODY CleanConnect Polyurethane Hose, non-coiled (minimum quantity 10 m/type)

Hose i.D./o.D.	Weight g/m	Type No.
8/12	80	PUL 812

**Clean
Connect**
by **LUDECKE**

Food-Safe



Compressed Air Blow-off Valve

made of Stainless Steel

- Blow-off valve made of stainless steel for permanent use at heavy working conditions
- For cleaning of worktops or work pieces in applications with strict hygiene requirements

Materials

- Blow-off valve: Stainless steel 1.4305
- Handle: Stainless steel 1.4308

Max. Working Pressure	Temperature	Media	
PN 12 bar	-40°C – +90°C	Compressed Air	1

Compressed Air Blow-off Valve made of Stainless Steel

Connection	Version	Nozzle bore	L	D	Weight	Type No.
Plug ESE	with nozzle HE2	2	108	22	277	AHLE ESE



Temperature Regulation Quick Connect Couplings



The temperature regulation quick connect couplings made of stainless steel are perfectly adapted to temperature regulation applications with cold or hot water and tempered oil in clean room areas as well as for increased hygiene regulations.

In addition to the standard coupling systems, the patented TempSecure by **LUDECKE**® series is also available in stainless steel. It is used for particularly high temperatures and critical applications.

Advantages:

- High-quality materials (Stainless Steel 1.4305)
- Robust, safe, absolutely leakage-proof and durable
- Easy to couple
- For temperature regulation lines and various media (e.g. water, steam, oil)
- Different sizes, connection and valve types
- TempSecure by **LUDECKE**®: patented temperature regulation quick connect coupling system with automatic locking mechanism

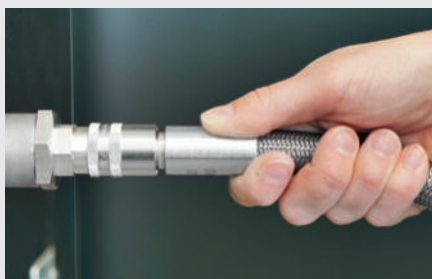
**Temp
Tec**®
by **LUDECKE**

Connected in Seconds

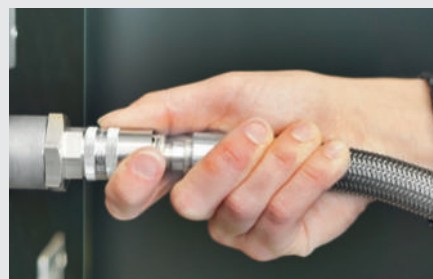
The **LUDECKE** quick connect couplings are very easy to handle.



One-hand operation: To connect, simply push the plug into the coupling.



To disconnect, pull back the sleeve from the coupling (comes with automatic locking mechanism in shut-off couplings).



Flexible Components

The **LUDECKE** temperature regulation product range can be extended with various features and thus be ideally adapted to the respective requirements.



TempSecure by **LUDECKE**® Safety Quick Connect Coupling

The patented TempSecure by **LUDECKE**® temperature regulation quick connect coupling system features an automatic safety locking mechanism which prevents unintentional disconnection and unlocking.

As a result, this coupling is especially suited when using aggressive media as well as for temperature regulation applications with hot or cold water and tempered oil between -20°C and +200°C*. Superior FKM-O-rings make the coupling an ideal media carrier especially in high-temperature applications.

*subject to used media

Advantages:

- Maximum safety against unintended disconnection and unlocking
- Simple and intuitive coupling process with forced guidance
- Visual colour coding (DN 6, DN 9)
- Controlled, manual disconnection
- High-temperature seals for high-performance
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications
- Available in various sizes, connections and valve types

TempSecure
by **LUDECKE**



Security Lock

In addition to the TempSecure by **LUDECKE**® series, we offer a simplified security lock.

- Disconnection only possible when safety pin engaged correctly into sleeve notch
- Prevention of fluid or pressure loss in the circulation during operation
- Prevention of human injury and harm to the environment, machine and tool
- Available for the series ESHME and ESHE

Just add "S" on Type No. (e.g. ESHME 9 TLS)
Surcharge 2.19 Euro gross/ piece



Colour Coding

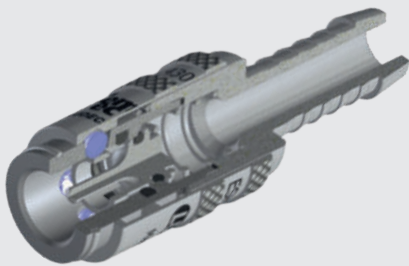
A red or blue anodized aluminium ring for the sleeve can be ordered to easily identify and distinguish between flow and return lines of the tempered circuit (for series ESHME and ESHE).

The rings are also sold individually for self-assembly. For installation, simply slide the ring on the coupling sleeve.

For additional information see page 321

O-Rings for Temperature Regulation Couplings

FKM:



LUDECKE offers high-resistant seals made of FKM for temperature regulation applications.

Advantages:

- Heat resistant up to 200°C (oil: 200°C, water: 150°C, air: 200°C)
- Highly resistant against all common tempered media
- Significantly better gliding properties and minimum wear (low adhesive tendency)
- High elasticity (no crack formation) according to DIN 53504
- High abrasion resistance of the O-ring
- Significantly increased life times of couplings

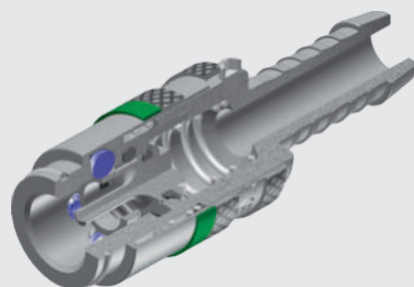
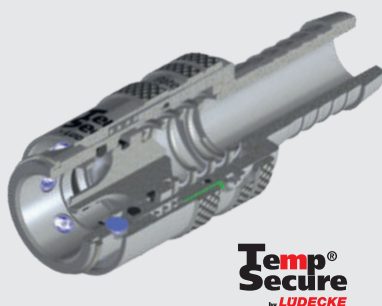
High-Performance FKM

The temperature regulation couplings of the TempSecure by **LUDECKE**® series contain a high-performance FKM sealing ring which has been developed for the special requirements of high-temperature applications.

- Extreme heat resistance up to 220°C continuous temperature (oil: 220°C, water: 180°C, air: 220°C)
- High resistance against synthetic oils used as tempered media
- Very good chemical resistance and high resistance against aliphatic hydrocarbons (fuels)
- Steam/ hot water optimised

On request, the high-performance FKM sealing ring is also available for other temperature regulation couplings (For easy identification, the coupling sleeve is marked with a green anodized aluminium ring).

Surcharge: 3.75 Euro gross/ piece - When ordering, simply add "HV" to the standard article number (e.g. ESHME 9 TLABHV).



Other special seals (e.g. EPDM, FFKM) on request.

Overview of Temperature Regulation Quick Connect Couplings

**Temp
Secure**
by LUDECKE

**Temp
Secure**
by LUDECKE

**Temp
Secure**
by LUDECKE

Series

ESHME
DN 6

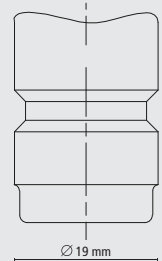
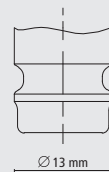
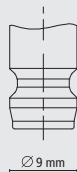
ESHMTE
DN 6

ESHE
DN 9

ESHTe
DN 9

NEW!
ESHGTE
DN 13

Plug Profile
(original size)



Materials

Body:

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Sleeve:

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Valve body:

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Valve:

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Springs, Retaining ring:

Stainless Steel 1.4310

Stainless Steel 1.4310

Stainless Steel 1.4310

Stainless Steel 1.4310

Stainless Steel 1.4310

Balls:

Stainless Steel 1.4034

Stainless Steel 1.4034

Stainless Steel 1.4034

Stainless Steel 1.4034

Stainless Steel 1.4034

Seals:

FKM

High-Performance FKM

FKM

High-Performance FKM

High-Performance FKM

Special seals for
other media on
request:

EPDM, FFKM

EPDM, FFKM

EPDM, FFKM

EPDM, FFKM

EPDM, FFKM

Plug:

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Max. Working Pressure:

PN 15 bar

PN 15 bar

PN 15 bar

PN 15 bar

PN 15 bar

Temperature:

-20°C – +200°C*

-20°C – +220°C**

-20°C – +200°C*

-20°C – +220°C**

-20°C – +220°C**

Thread Types:

ISO 228/ DIN 13

ISO 228/ DIN 13

ISO 228/ DIN 13

ISO 228/ DIN 13

ISO 228/ DIN 13

Flow Rate:

Kv = 0.72

Kv = 0.72

Kv = 1.8

Kv = 1.8

Kv = 1.8

Single shut-off:

straight / 45° / 90°

straight / 45° / 90°

straight / 45° / 90°

straight / 45° / 90°

straight

Type of Valve:

single shut-off/ double
shut-off/ straight-through

single shut-off/ double
shut-off/ straight-through

single shut-off/ double
shut-off/ straight-through

single shut-off/ double
shut-off/ straight-through

single shut-off/ double
shut-off/ straight-through

Operation:

One-Hand

One-Hand

One-Hand

One-Hand

One-Hand

Page:

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316

317

319

320

*subject to media (oil: 200°C, water: 150°C, air: 200°C)

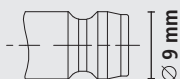
**subject to media (oil: 220°C, water: 180°C, air: 220°C)

Temperature Regulation Quick Connect Couplings

Series ESHME plug size 9 mm – Stainless Steel 1.4305

DN 6

Plug Profile (original size)



European Plug Profile



- One-hand quick connect couplings with reduced dimensions made of stainless steel 1.4305
- For temperature regulation applications with hot or cold water as well as tempered oil e.g. in clean-room applications
- Optional with straight-through, single or double shut-off valves
- All couplings available with security lock, just add „S“ on Type No. (Surcharge: 2.19 Euro gross)

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	6	ISO 228 / DIN 13	One-hand	single/double/straight-through	Tempered media	Coupl. 1 / Plug 5

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 9	53	17	22.5	9	6	45	ESHME 9 TL	ESHME 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 9	42.5	17	22.5	9	6	62	ESHME 9 TL-45	ESHME 9 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 9	42.5	17	22.5	9	6	62	ESHME 9 TL-90	ESHME 9 TL-90AB

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 1/4 a	48	17	17	9	9	6	60	ESHME 14 A	ESHME 14 AAB
M 14x1,5 a	48	17	17	9	9	6	60	ESHME 1415 A	ESHME 1415 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 1/4 m	47	16	17	9	9	6	65	ESHME 14 A-45	ESHME 14 A-45AB
M 14x1.5 m	47	16	17	9	9	6	65	ESHME 1415 A-45	ESHME 1415 A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 1/4 m	47	16	17	9	9	6	75	ESHME 14 A-90	ESHME 14 A-90AB
M 14x1.5 m	47	16	17	9	9	6	75	ESHME 1415 A-90	ESHME 1415 A-90AB

Safe connection of individual coupling parts due to special glue and additional FKM O-ring sealing.

Other types/ sizes on request!

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 398 - 401)

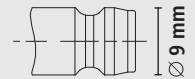
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Temperature Regulation Quick Connect Couplings

plug size 9 mm – Stainless Steel 1.4305 **Series ESHME**

DN 6

Plug Profile (original size)



Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 9	39.5	12	22.5	14	9	6	13	ESHME 9 SL



Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	24	11	7	14	9	6	10	ESHME 18 NA
G 1/4 m	26	15	9	14	9	6	14	ESHME 14 NA
G 3/8 m	27	17	9	14	9	6	18	ESHME 38 NA
M 8x0.75 m	24	11	7	14	9	4.5	9	ESHME 875 NA
M 10x1 m	24	11	7	14	9	6	8	ESHME 101 NA
M 14x1.5 m	26	15	9	14	9	6	14	ESHME 1415 NA
M 16x1.5 m	26	17	9	14	9	6	18	ESHME 1615 NA



Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	29	15	12	14	9	6	14	ESHME 14 NAAB
G 3/8 m	30	17	12	14	9	6	22	ESHME 38 NAAB
M 14x1.5 m	29	15	12	14	9	6	15	ESHME 1415 NAAB



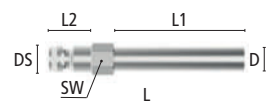
Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 - DN 6	34	12	14	14	9	9	6	15	ESHME-ESHME
DN 6 - DN 9	34	14	14	14	9	13	6	19	ESHME-ESHE



Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	9	42	14	9	6	14	ESHME 63 R
8	100	9	79	14	9	6	20	ESHME 100 R
10	120	11	99	14	9	6	49	ESHME 120 R
10	240	11	219	14	9	6	96	ESHME 240 R



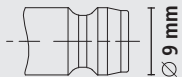
NEW

Temperature Regulation Quick Connect Couplings

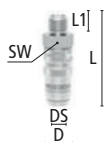
Series ESHMTE plug size 9 mm – Stainless Steel 1.4305 with Automatic Locking Mechanism

DN 6

Plug Profile (original size)



European Plug Profile



- One-hand quick connect couplings with reduced dimensions made of stainless steel 1.4305 and patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and sleeve made of stainless steel
- **For temperature regulation applications with hot or cold water as well as tempered oil e.g. in clean-room applications**
- Optional with straight-through, single or double shut-off valves
- Please connect with plug series ESHME DN 6 (page 315)
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: High-Performance FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +220°C*	6	ISO 228/ DIN 13	One-hand	single/double/straight-through	Tempered media	5

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 9	61	18	22.5	9	6	54	ESHMTE 9 TL	ESHMTE 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 9	54	18	22.5	9	6	79	ESHMTE 9 TL45	ESHMTE 9 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 9	56	18	22.5	9	6	88	ESHMTE 9 TL90	ESHMTE 9 TL90AB

Couplings with straight male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 1/4 m	56.5	17	18	11	9	6	67	ESHMTE14AL	ESHMTE14ALAB
M 14x1.5 m	56.5	17	18	11	9	6	68	ESHMTE1415AL	ESHMTE1415ALAB

Couplings with 45° male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 1/4 m	52	17	18	11	9	6	83	ESHMTE14AL45	ESHMTE14AL45AB
M 14x1.5 m	52	17	18	11	9	6	84	ESHMTE1415AL45	ESHMTE1415AL45AB

Couplings with 90° male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 1/4 m	56	17	18	11	9	6	92	ESHMTE14AL90	ESHMTE14AL90AB
M 14x1.5 m	56	17	18	11	9	6	93	ESHMTE1415AL90	ESHMTE1415AL90AB

Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

Temperature Regulation Quick Connect Couplings

plug size 13 mm – Stainless Steel 1.4305 **Series ESHE**

- One-hand quick connect couplings made of stainless steel 1.4305
- **For temperature regulation applications with hot or cold water as well as tempered oil e.g. in clean-room applications**
- Optional with straight-through, single or double shut-off valves
- All couplings available with security lock, just add „S“ on Type No. (Surcharge: 2.19 Euro gross)

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	9	ISO 228 / DIN 13	One-hand	single/double/straight-through	Tempered media	Coupl. 1 / Plug 5

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 13	61.5	22	25	13	9	81	ESHE 13 TL	ESHE 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 13	51	22	30	13	9	109	ESHE 13 TL-45	ESHE 13 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 13	51	22	30	13	9	111	ESHE 13 TL-90	ESHE 13 TL-90AB

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 3/8 m	52	22	22	9	13	9	94	ESHE 38 A	ESHE 38 AAB
M 16x1.5 m	52	22	22	9	13	9	93	ESHE 1615 A	ESHE 1615 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 3/8 m	54	19	22	9	13	9	114	ESHE 38 A-45	ESHE 38 A-45AB
M 16x1.5 m	54	19	22	9	13	9	114	ESHE 1615 A-45	ESHE 1615 A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 3/8 m	54	19	22	9	13	9	126	ESHE 38 A-90	ESHE 38 A-90AB
M 16x1.5 m	54	19	22	9	13	9	126	ESHE 1615 A-90	ESHE 1615 A-90AB

Couplings with straight female thread without/ with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 1/4 f	44.5	17	22	9	13	9	102	ESHE 14 I	ESHE 14 IAB
G 3/8 f	46	22	22	9	13	9	104	ESHE 38 I	ESHE 38 IAB

Safe connection of individual coupling parts due to special glue and additional FKM o-ring sealing.

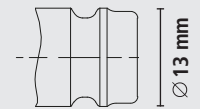
Other types/ sizes on request

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 398 - 401)

*subject to media (oil: 200°C, water: 150°C, air: 200°C)

DN 9

Plug Profile (original size)



European Plug Profile

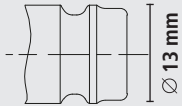


Temperature Regulation Quick Connect Couplings

Series ESHE plug size 13 mm – Stainless Steel 1.4305

DN 9

Plug Profile (original size)



Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 13	39,5	16	25	14	13	9	25	ESHE 13 SL



Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	26	15	9	14	13	9	17	ESHE 14 NA
G 3/8 m	26	17	9	14	13	9	22	ESHE 38 NA
G 1/2 m	31	22	12	14	13	9	22	ESHE 12 NA
M 14x1.5 m	26	15	9	14	13	9	16	ESHE 1415 NA
M 16 x 1.5 m	26	17	9	14	13	9	20	ESHE 1615 NA



Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	11	14	13	9	21	ESHE 14 NAAB
G 3/8 m	29	17	12	14	13	9	23,5	ESHE 38 NAAB
M 16x1.5 m	29	17	12	14	13	9	23	ESHE 1615 NAAB



Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 9	34	14	14	14	9	13	6	19	ESHME-ESHE
DN 9 – DN 9	34	14	14	14	13	13	9	25	ESHE-ESHE



Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	14	13	9	109	ESHE 150 R

Temperature Regulation Quick Connect Couplings

plug size 13 mm – Stainless Steel 1.4305 with Automatic Locking Mechanism **Series ESHT**

- One-hand quick connect couplings made of stainless steel 1.4305 with patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and sleeve made of stainless steel
- **For temperature regulation applications with hot or cold water as well as tempered oil e.g. in clean-room applications**
- Optional with straight-through, single or double shut-off valves
- Please connect with plug series ESHE DN 9 (page 318)
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: High-Performance FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +220°C*	9	ISO 228/ DIN 13	One-hand	single/double/straight-through	Tempered media	5

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 13	63	23.5	25	13	9	77	ESHT 13 TL	ESHT 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 13	55.5	22	23.5	25	13	9	134	ESHT 13 TL45	ESHT 13 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 13	55.5	22	23.5	25	13	9	134	ESHT 13 TL90	ESHT 13 TL90AB

Couplings with straight male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 3/8 m	56	22	23.5	12.5	13	9	95	ESHT38AL	ESHT38ALAB
M 16x1.5 m	56	22	23.5	12.5	13	9	94	ESHT1615AL	ESHT1615ALAB

Couplings with 45° male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 3/8 m	55.5	22	23.5	12.5	13	9	131	ESHT38AL45	ESHT38AL45AB
M 16x1.5 m	55.5	22	23.5	12.5	13	9	129	ESHT1615AL45	ESHT1615AL45AB

Couplings with 90° male long thread without/with valve (inner cone DIN 3863)

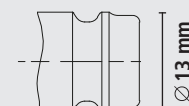
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 3/8 m	55.5	22	23.5	12.5	13	9	131	ESHT38AL90	ESHT38AL90AB
M 16x1.5 m	55.5	22	23.5	12.5	13	9	129	ESHT1615AL90	ESHT1615AL90AB

Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

DN 9

Plug Profile (original size)



European Plug Profile



Temp[®] Secure
by **LUDECKE**

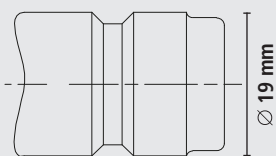


Temperature Regulation Quick Connect Couplings

Series ESHGTE plug size 19 mm – Stainless Steel 1.4305 with Automatic Locking Mechanism

DN 13

Plug Profile (original size)



European Plug Profile



- One-hand quick connect couplings made of stainless steel 1.4305 with patented automatic safety locking mechanism
- Forced guidance design with visual coding on the locking sleeve
- Combined pressure-torsion spring and sleeve made of stainless steel
- For temperature regulation applications with hot or cold water as well as tempered oil e.g. in clean-room applications
- Optional with straight-through, single or double shut-off valves
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: High-Performance FKM

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +220°C*	13	ISO 228/ DIN 13	One-hand	single/double/ straight-through	Tempered media	5

Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
Hose i.D. 13	82	34	25	19	9.5	221	ESHGTE 13 TL	ESHGTE 13 TLAB
Hose i.D. 19	90	34	34	19	14	239	ESHGTE 19 TL	ESHGTE 19 TLAB

Couplings with straight male long thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 1/2 m	76	30	34	15	19	13	255	ESHGTE 12 A	ESHGTE 12 AAB
G 3/4 m	77	30	34	16	19	13	279	ESHGTE 34 A	ESHGTE 34 AAB
M 24x1.5 m	77	30	34	16	19	13	269	ESHGTE 2415 A	ESHGTE 2415 AAB

Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o. Valve	Type No. w. Valve
G 1/2 f	69.5	27	34	12	19	13	238	ESHGTE 12 I	ESHGTE 12 IAB
G 3/4 f	69.5	32	34	12	19	13	244	ESHGTE 34 I	ESHGTE 34 IAB
M 24x1.5 f	69.5	32	34	12	19	13	240	ESHGTE 2415 I	ESHGTE 2415 IAB

Plugs with standard hose stem without valve

Hose connection	L	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 13	54	25	27	19	9	52	ESHGE 13 SL
Hose i.D. 19	63	34	27	19	13	81	ESHGE 19 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/2 m	47	22	12	27	19	13	64	ESHGE 12 NA
G 3/4 m	51	27	16	27	19	13	107	ESHGE 34 NA
M 24x1.5 m	51	27	16	27	19	13	97	ESHGE 2415 NA

Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Weight	Type No.
G 1/2 f	42	27	10	27	19	72	ESHGE 12 NI
G 3/4 f	42.5	32	10	27	19	86	ESHGE 34 NI

Other sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

Manifolds for Temperature Regulation Lines

made of Stainless Steel 1.4401

- For a clean layout of inflow and outflow to the temperature regulation tool, can be mounted at the machine
- Increases the working and production safety with its clean layout of temperature regulation lines, saves energy and hose lines because of the central inflow of the temperature regulation media to the machine
- A central inflow and outflow to the temperature regulation tool, as many outlets as necessary to the mould tool thanks to of the modular construction and different lengths
- Profile can be extended or combined as often as desired due to the bar connector system
- Stainless steel manifolds mainly for applications with aggressive media
- Lateral inlet thread G 3/4 f, top outlet thread G 1/4 f for coupling Series DN 6 and DN 9
- Other types/ versions on request

Materials

- Manifold: Stainless Steel 1.4401
- Plain End Plug: Brass MS 58

Max. Working Pressure	Temperature	Thread	Media	
PN 15 bar	-20°C – +200°C	ISO 228	Tempered media	1

Manifold made of Stainless Steel 1.4401

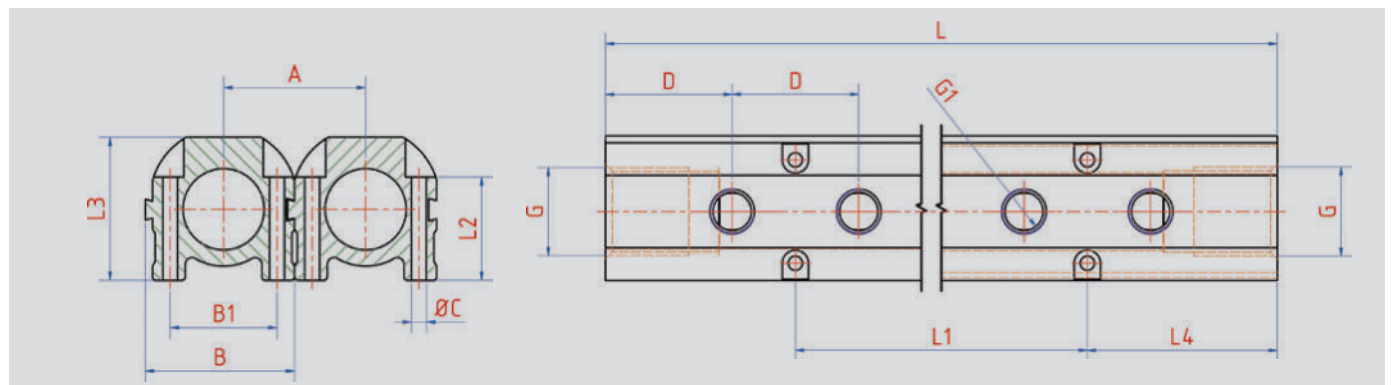
G*	G1**	L	B	L1	L2	L3	L4	ØC	A	D	B1	Weight	Type No.
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	1490	VBE 34144-190

Plain End Plug for Manifolds

Thread connection	Inner Hexagon		Weight	Type No.
G 3/4 m	SW 12	5	80	VBS-34

*Thread connection on the side

**Thread connection on the top



Colour Coding

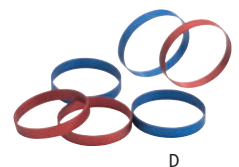
- Easy identification and distinction of inflow and outflow lines of the tempered circuit with red or blue anodised colour coding (for the series ESHME and ESHE)
- The specified series can be ordered with aluminium ring on the sleeve.
Minimum order quantity: 20 pieces/ type. When ordering, simply add "R" or "B" to a standard article number, e.g. ESHE 13 TLR or ESHME 9 TLABB (Surcharge: 2.19 Euro gross/ piece)
- The rings are also available for self-assembly. To install, simply slide the ring on the coupling sleeve

Materials

- Colour coding: Aluminium anodised

Marking rings for temperature regulation couplings

for coupling type	D	Colour		Weight	Type No.
ESHME (DN 6)	17	red	50	1	ESHM-CR-R
ESHME (DN 6)	17	blue	50	1	ESHM-CR-B
ESHE (DN 9)	22	red	50	2	ESH-CR-R
ESHE (DN 9)	22	blue	50	2	ESH-CR-B



For other coupling series available on request.

Quick Connect Couplings and Screwings for Cleaning Applications



For the food processing industry, hygiene is top priority. This is why worktops, machines and premises need to be thoroughly cleaned on a regular basis.

The used devices must meet high requirements due to rough operating conditions, cleaning agents and strict hygiene guidelines.

LUDECKE offers a high-quality system tailored to these special demands. It consists of different fittings (screwings/ quick connect couplings) which will be especially adjusted to the hoses used for cleaning applications.

Screwing

- For precleaning
- When using cleaning agents and high water pressure

Quick connect coupling

- For rinsing with water
- With patented TempSecure by **LUDECKE**® safety locking mechanism

Convincing Performance

Easy & Efficient

- Ergonomic design for optimum ease of use
- Easy handling
- High flow rate due to maximum passage

Safe

- Extremely robust, secure and reliable
- Absolutely leakage-proof and durable (ensures high lifetime)
- Permanent and leakage-free hose assembly
- No risk of injury due to unsuitable assembly methods
- Tried and tested protection against accidental disconnection

Hygienic

- Entirely made of stainless steel
- High resistance against corrosion
- Hygienic smooth surfaces to prevent dirt from collecting
- O-rings which are especially approved for the food industry

Screwing



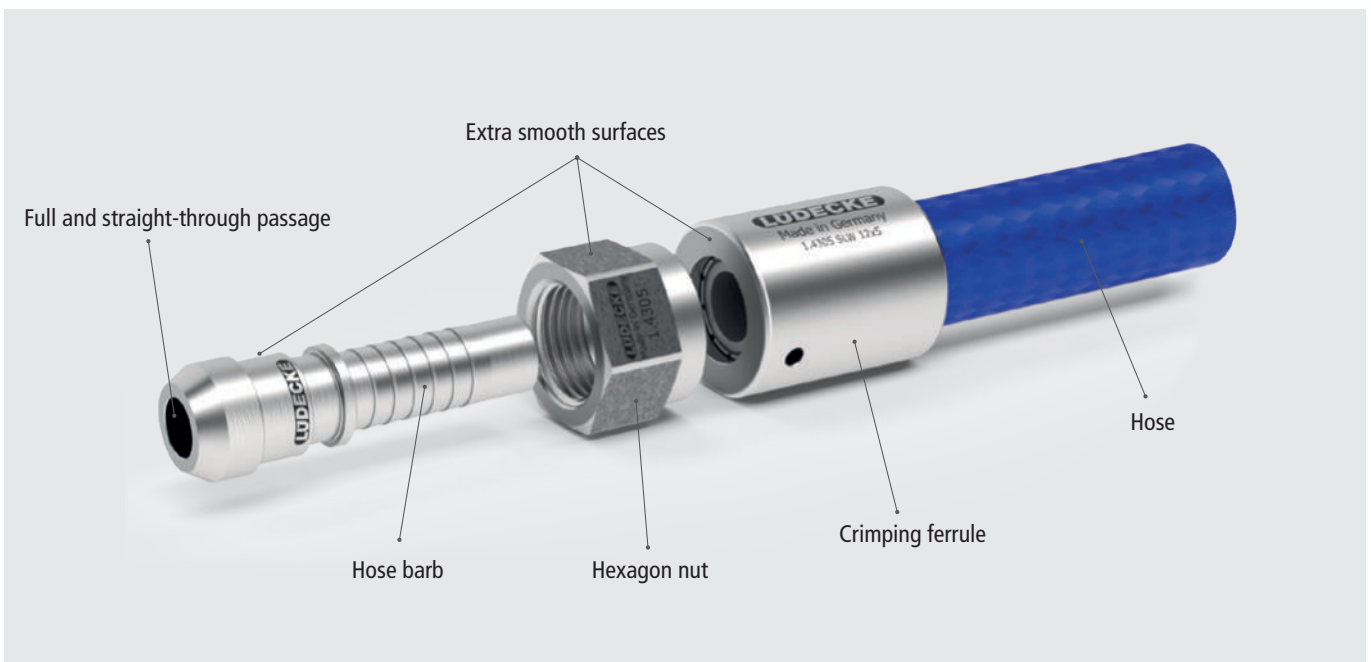
The **LUDECKE** CleanConnect screwing most often is used for applications with cleaning agents and high water pressure. This product provides an innovative and robust connection for a safe hose assembly.

Advantages

- High-quality hose screwing made of stainless steel 1.4305
- Permanent assembly by hose crimping or re-usable hose squeeze nut
- Full and straight-through passage
- For applications with aggressive cleaning agents (e.g. for preliminary cleaning)
- For a working pressure of 35 bar as well as operating temperatures up to 95°C (subject to media)

Quality in Every Component

For hose screwings, we recommend a suitable hose which meets the high standards of the food industry. To find a perfect solution (depending on the requirement) we recommend getting in touch with our competent sales and technical team.



Quick Connect Coupling



The **LUDECKE** CleanConnect quick connect coupling is used in applications that require high flexibility (e.g. rinsing with water).

The product highlight is the automatic safety locking mechanism according to the patented TempSecure by **LUDECKE**® concept. It offers simple and effective protection against unintentional disconnection under pressure and thus can be chosen when working with high temperatures. The ergonomic design provides an easy operation even when wet or when wearing gloves.

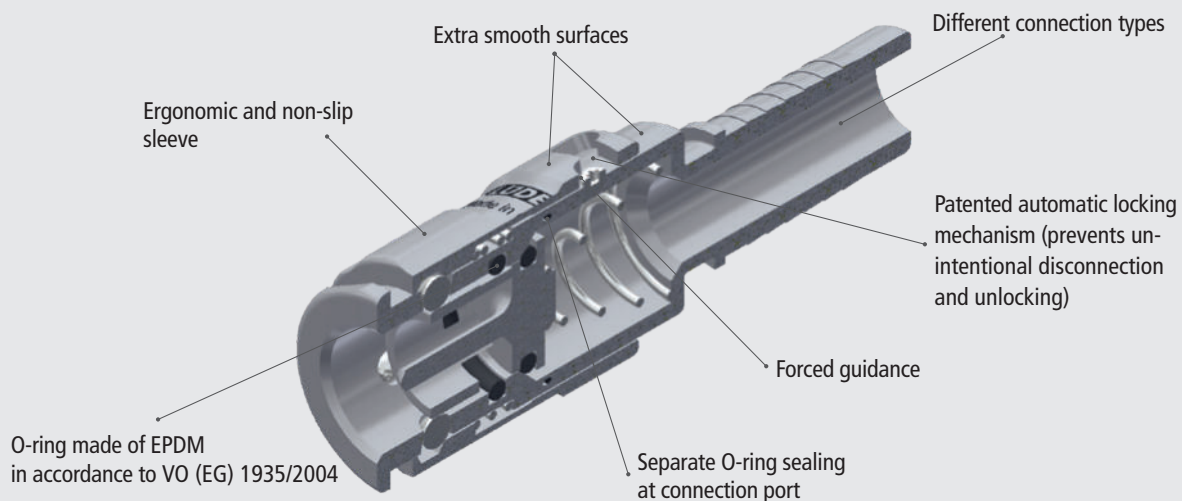
Advantages

- High-quality quick connect coupling made of stainless steel 1.4305
- Different connection and valve types
- TempSecure by **LUDECKE**®: patented temperature regulation quick connect coupling system with automatic locking mechanism
- O-rings which are especially approved for the food industry (VO (EG) 1935/2004)
- For a working pressure of 35 bar as well as operating temperatures up to 95°C (subject to media)

TempSecure
by **LUDECKE**

First-Class Materials

For quick connect couplings, we recommend a suitable hose which meets the high standards of the food industry. We are pleased to find a perfect solution in cooperation with you.



Simple - Hygienic - Fast

To connect the system, simply push the plug into the safety coupling. The sleeve automatically slides forward in a twisting motion and engages into the final safety lock position. The coupling is now firmly connected to the plug and secured against unintentional opening.

To release the plug from the safety coupling, the sleeve has to be pulled back manually and with force. The plug can only be removed from the safety coupling by deliberately pulling/twisting.

Overview of Quick Connect Couplings / Screwings for Cleaning Applications

	Hose Barbs for Hose Crimping	Thread Stems with Male Thread and Hose Squeeze Nut	Quick Connect Couplings
Materials			
Body:	Stainless Steel 1.4305	Stainless Steel 1.4305	Stainless Steel 1.4305
Hexagon nut:	Stainless Steel 1.4305	-	-
Crimping ferrule:	Stainless Steel 1.4305	-	-
Sleeve:	-	-	Stainless Steel 1.4305
Valve body:	-	-	Stainless Steel 1.4305
Valve:	-	-	Stainless Steel 1.4305
Springs, Retaining ring:	-	-	Stainless Steel 1.4310
Balls:	-	-	Stainless Steel 1.4024
Seals:	-	-	EPDM
Special seals for other media on request:	-	-	FKM
Plug:	-	-	Stainless Steel 1.4305
Max. Working Pressure*:	PN 35 bar	PN 35 bar	PN 35 bar
Temperature:	up to +95°C	up to +95°C	up to +95°C
Thread types:	ISO 228	ISO 228	ISO 228
Type of valve:	-	-	straight-through
Operation:	-	-	One-hand
Page:	326	326	327

*Subject to temperature and assembly method

contains o-rings, according to VO (EG) 1935/2004, DVGW W 270 and DVGW W 534

Screwings for Cleaning Applications

made of Stainless Steel 1.4305



- High-quality hose screwing made of stainless steel 1.4305
- Hose screwing for hose crimping consisting of: hose barb with 60° cone and hexagon nut or hose barb with male thread and 60° cone and crimping ferrule
- High pressure and temperature range
- Absolutely leakage-proof and durable
- Hygienic smooth surfaces as well as smooth and straight-through passage to prevent dirt from collecting
- For cleaning applications in the food industry (e.g. for applications with aggressive cleaning agents), etc.

Materials

- Hose barb, hexagon nut, crimping ferrule, thread stem, double nipple: Stainless Steel 1.4305

Max. Working Pressure	Temperature	Thread	Media	
PN 35 bar**	up to +95°C	ISO 228	Water with cleaning agents / steam	5

Hose barbs with 60° sealing cone and hexagon nut for hose crimping

Thread connection	Hose connection	L	SW	L1	L2	Passage	Weight	Type No.
G 1/2 f	Hose i.D. 13	42	27	12	34	9.5	67	STE 1213 PH-...*
G 3/4 f	Hose i.D. 19	69.5	32	16	34	14.5	142	STE 3419 PH-...*

Hose connection with crimping ferrule type PHE

Hose barbs with male thread and 60° cone for hose crimping

Thread connection	Hose connection	L	SW	L1	L2	Passage	Weight	Type No.
G 1/2 m	Hose i.D. 13	63.5	22	14	34	9.5	57	TAE 1213 PH-...*
G 3/4 m	Hose i.D. 19	66.5	27	16	34	14.5	117	TAE 3419 PH-...*

Hose connection with crimping ferrule type PHE

Crimping ferrules (hydraulic crimping)

Version	L	D	D1	Weight	Type No.
Hose i.D. 15	37	30	23	61	PHE-13-...*
Hose i.D. 19	37	36	29	75	PHE-19-...*

Thread stems with male thread and 60° cone and hose squeeze nut

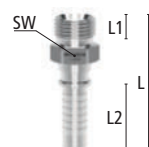
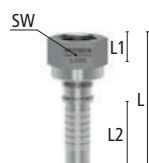
Thread connection	Hose connection	L	SW	L1	L2	SW1	Passage	Weight	Type No.
G 1/2 m	Hose i.D. 13	71	22	25	14	27	10	168	TAE 1213 TQ-...*
G 3/4 m	Hose i.D. 19	73.5	27	25	16	32	13	245	TAE 3419 TQ-...*

Double Nipples with male threads on both sides

Thread connection	L	SW	L1	L2	Passage	Weight	Type No.
G 1/2 m - G 1/2 m	36	22	14	14	13	56	D 12 E
G 3/4 m - G 3/4 m	40	27	16	16	13	114	D 34 E
G 3/4 m - G 1/2 m	38	27	16	12	13	92	D 3412 E

*the final article number can be determined upon selection of hose to be used and consulting our sales team

**subject to temperature, assembly and hose



Quick Connect Couplings for Cleaning Applications

made of Stainless Steel 1.4305 with Automatic Locking Mechanism **Series ESHGTE**

- One-hand quick connect couplings made of stainless steel 1.4305 with patented automatic safety locking mechanism
- Forced guidance design with visual coding on the locking sleeve
- Hygienic smooth surfaces to prevent dirt from collecting
- O-rings, according to the food sector (VO (EG) 1935/2004) and to the drinking water sector (according to elastomer guide line, DVGW W 270, DVGW W 534)
- **For cleaning applications in the food industry, etc.**
- **Optional with straight-through, single or double shut-off valves**
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Seals: EPDM (others on request)
- Balls: Stainless Steel 1.4024

Max. Working Pressure	Temperature	DN	Thread	Type of valve	Operation	Media	
PN 35 bar**	up to +95°C	13	ISO 228	straight-through	One-hand	Water with cleaning agents / steam	5

Couplings with hose squeeze nut

Hose connection	L	SW	D	L1	SW1	Passage	Weight	Type No.
Hose i.D. 13	104.5	27	34	29	27	10	328	ESHGTE 13 TQ-...*
Hose i.D. 19	104.5	27	34	29	32	13	389	ESHGTE 19 TQ-...*

Couplings for hose crimping

Hose connection	L	D	L1	Passage	Weight	Type No.
Hose i.D. 13	98	34	41.5	9.5	224	ESHGTE 13 TPH-...*
Hose i.D. 19	93	34	41.5	13	257	ESHGTE 19 TPH-...*

Hose connection with crimping ferrule type PHE (☉ page 326)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/2 f	69.5	27	34	12	238	ESHGTE 12 I-HE
G 3/4 f	69.5	32	34	12	244	ESHGTE 34 I-HE

Plugs with female thread

Thread connection	L	SW	L1	L2	DS	Weight	Type No.
G 1/2 f	42	27	10	27	19	72	ESHGE 12 NI
G 3/4 f	42.5	32	10	27	19	86	ESHGE 34 NI

Plugs with male thread and 60° cone

Thread connection	L	SW	L1	L2	DS	Weight	Type No.
G 1/2 m	49	22	14	27	19	66	ESHGE 12 NA
G 3/4 m	51	27	16	27	19	101	ESHGE 34 NA

Plugs with hose squeeze nut

Hose connection	L	SW	L1	L2	DS	SW1	Weight	Type No.
Hose i.D. 13	84	22	25	27	19	27	173	ESHGE 13 SQ-...*
Hose i.D. 19	84.5	27	25	27	19	32	232	ESHGE 19 SQ-...*

Plugs for hose crimping

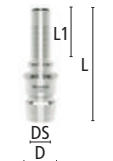
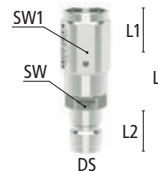
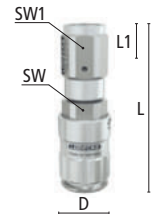
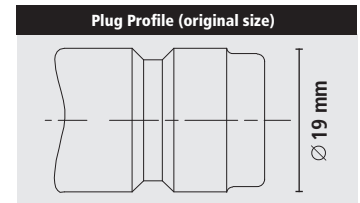
Hose connection	L	D	L1	DS	Passage	Weight	Type No.
Hose i.D. 13	70.5	22	34	19	9.5	53	ESHGTE 13 SPH-...*
Hose i.D. 19	70.5	22	34	19	13	92	ESHGTE 19 SPH-...*

Hose connection with crimping ferrule type PHE (☉ page 326)

*the final article number can be determined upon selection of hose to be used and consulting our sales team

**subject to temperature, assembly and hose

DN 13



Claw Couplings



LUDECKE claw couplings are made of stainless steel 1.4401 and 1.4305 that is resistant to rust and acid. They are manufactured according to lost wax technique, which guarantees a special surface finish.

The products are ideally suited for connecting lines to carry chemicals (depending on mixture/ concentration) in tank and container construction, chemical and petrochemical industry as well as in food and drinking water applications.

Advantages:

- First-class stainless steel
- Robust, reliable, absolutely leakage-proof and durable
- Easy handling
- Increased safety with MODY-safety-screwing-couplings
- Identical coupling head: connection versions and sealing systems can be connected with each other
- Maximum bore for maximum flow rate
- Sealing ring made of FKM (resistant to acid)

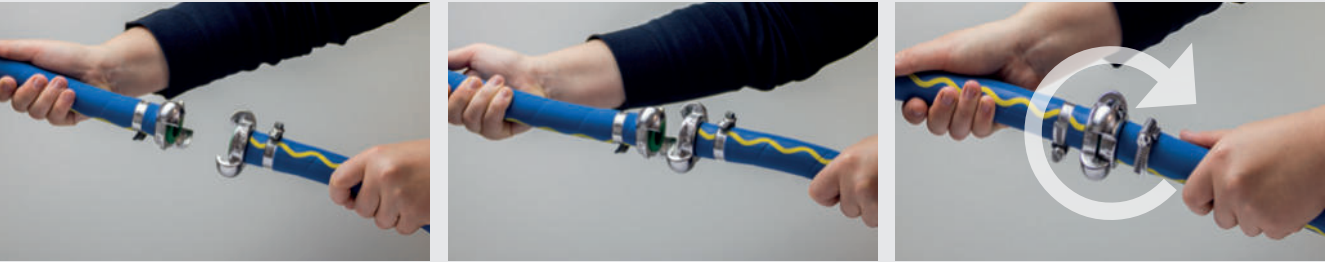
Broad Range

The **LUDECKE** claw couplings for the processing industry are available in various sizes and connection types as well as special safety version (MODY).



Connected in Seconds

Push the two couplings together at 180° degrees opposite to each other until the seal faces touch. Afterwards, rotate one coupling half as far as it will go into the opposite direction of the other - the couplings lock into place.



To disconnect, push the coupling and the counterpart together in axial direction. Afterwards, turn one coupling half as far as possible in the opposite direction as you would do when connecting and remove it from the counterpart.



To ensure a perfect connection, the locking nut at the MODY-safety-screwing coupling is tightened manually.
In general, we recommend to always use a classic claw coupling (DIN 3489) with a MODY-safety-screwing coupling (DIN 3238).
This connection is absolutely safe, easy to connect and 100 % leakage-proof.

Overview of Claw Couplings made of Stainless Steel

	Claw Couplings	MODY-Safety-Screwing Couplings
Norm:	DIN 3489	DIN 3238
		
Materials		
Claw:	Stainless Steel 1.4401	Stainless Steel 1.4401
Body:	Stainless Steel 1.4401	Stainless Steel 1.4404
Locking nut:	-	Stainless Steel 1.4305
Seals:	FKM	FKM
Special seals for other media on request:	TFEP, EPDM	TFEP, EPDM
Max. Working Pressure:	PN 16 bar	PN 16 bar
Temperature:	-30°C – + 200°C	-30°C – + 200°C
Thread Types:	ISO 228	ISO 228
Type of valve:	straight-through	straight-through
Operation:	Two-Hands	Two-Hands
Claw Distance:	42 mm	42 mm
Page:	330	331

Claw Couplings

Standard Version DIN 3489 made of Stainless Steel 1.4401

- High-quality claw couplings made of stainless steel 1.4401 (resistant to rust and acid) with safety notches
- With sealing ring made of FKM (acid-resistant), other materials (☉ below)
- Couplings made with lost wax technique, special surface finish
- Maximum bore for maximum flow rate
- Turned gasket seat, therefore 100 % leakage-proof
- Turned stem profile for perfect hose fit, 100 % function check and sight control
- For aggressive fluids (depending on mixture/ concentration) in tank and container construction, chemical or petrochemical industry, etc.
- For food and drinking water applications use rubber ring type GPOR (according to the food industry)

Materials

- Claw, connector: Stainless Steel 1.4401
- Chain: Stainless Steel 1.4301
- Thread ferrule: Brass MS 58 chromium-plated
- Seals: FKM

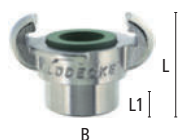
Max. Working Pressure	Temperature	Thread	Norm	Claw distance	Media	☉
PN 16 bar	-30°C – +200°C	ISO 228	DIN 3489	42 mm	Chemical media	1



Claw Couplings with hose barb (DIN 3489)

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 10	65	63	40	6.5	125	EKT 10 V
Hose i.D. 13	65	63	40	9	129	EKT 13 V
Hose i.D. 19	65	63	40	15	142	EKT 19 V
Hose i.D. 25	65	63	40	20	165	EKT 25 V

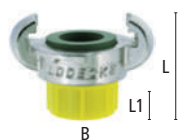
Swivelling execution on request.



Claw Couplings with female thread (DIN 3489)*

Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 f	41.5	63	14	15	173	EKI 38 V
G 1/2 f	41.5	63	15	15	163	EKI 12 V
G 3/4 f	41.5	63	16	20	158	EKI 34 V
G 1 f	41.5	63	18	20	160	EKI 10 V

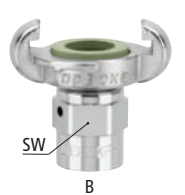
*On request also available with NPT thread (surcharge 2.75 Euro gross/ piece)



Claw Couplings (DIN 3489) with male thread and thread protective cap*

Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 m	39	63	12	10	148	EKA 38 V
G 1/2 m	39	63	14	14	151	EKA 12 V
G 3/4 m	41.5	63	15	19	155	EKA 34 V
G 1 m	41.5	63	15	20	180	EKA 10 V

*On request also available with NPT thread (surcharge 2.75 Euro gross/ piece)



Claw Couplings with Thread Ferrule (according to DIN EN 14 424)

Hose connection	L	SW	B	Passage	Weight	Type No.
Hose 13x3	57	24	63	11	170	EKTQ 133 V
Hose 13x5	57	27	63	11	175	EKTQ 135 V
Hose 15x5	57	32	63	13	190	EKTQ 155 V
Hose 19x5	57	32	63	16	195	EKTQ 195 V
Hose 19x6	57	36	63	16	200	EKTQ 196 V
Hose 25x5	62	41	63	22	250	EKTQ 255 V
Hose 25x7	62	46	63	22	260	EKTQ 257 V



Claw Couplings with blank ends (DIN 3489)

Version	L	B	☉	Weight	Type No.
without chain	42	63		144	EKO V
with chain	42	63		136	EKM V
chain (spare part)	200		10	7	EKMV-K

Original Rubber Ring

Resistance	L	D	D1	Material	Temp.°C	Colour	Shore A	☉	Weight	Type No.
Chem. media	10,5	34	20	FKM	-40 / +200	green	50°	10	9	GVOR
Steam	10	33	20	TFEP	-15 / +200	red	65°	10	6	GDOR
Foods	10,5	34	20	EPDM	-40 / +130	nature	70°	10	9	GPOR



MODY-Safety-Screwing Couplings DIN 3238 made of Stainless Steel 1.4401

- High-quality claw couplings made of stainless steel 1.4401 (resistant to rust and acid) with safety notches
- Easy to couple, secured against accidental opening through tightening the locking nut
- With sealing ring made of FKM (acid-resistant), other materials (☉ below)
- Couplings made with lost wax technique, special surface finish
- Maximum bore for maximum flow rate
- Turned gasket seat, therefore 100 % leakage-proof
- Turned stem profile for perfect hose fit, 100 % function check and sight control
- For aggressive fluids (depending on mixture/ concentration) in tank and container construction, chemical or petrochemical industry, etc.
- For food and drinking water applications use rubber ring type SPOR-N (according to the food industry)

Materials

- Claw: Stainless Steel 1.4401
- Locking nut: Stainless Steel 1.4305
- Seals: FKM, TFEP
- Connector: Stainless Steel 1.4404
- Crimping ferrule: Brass MS 58 plain

Max. Working Pressure	Temperature	Thread	Norm	Claw distance	Media	☉
PN 16 bar	-30°C – +200°C	ISO 228	DIN 3238	42 mm	Chemical media	1

MODY-Safety-Screwing Couplings with hose barb (DIN 3238)

Hose connection	L	SW	B	L1	Passage	Weight	Type No.
Hose i.D. 13	105	36	63	41	9	337	EKS 13 V
Hose i.D. 19	105	36	63	41	15	350	EKS 19 V
Hose i.D. 25	105	36	63	41	18	380	EKS 25 V

Other sizes on request.

Hose assembly with hose clamps type SLE (☉ page 356)

MODY-Safety-Screwing Couplings (DIN 3238) with brass MS 58 safety clamps for steam applications (DIN EN 14 423)

Hose connection	L	B	Passage	Mat. Seal	Weight	Type No.
Hose 13x6	120	63	10	TFEP (SDOR-N)	840	EKS 13 KSM
Hose 19x7	120	63	15	TFEP (SDOR-N)	940	EKS 19 KSM

For Hose 25 x 7.5 (1") on request

MODY-Safety-Screwing Couplings with male thread (DIN 3238)

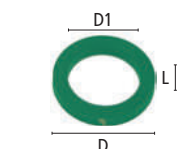
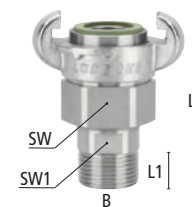
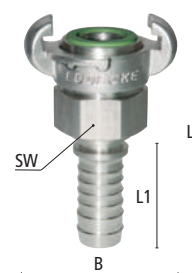
Thread connection	L	SW	B	L1	SW1	Passage	Weight	Type No.
G 1/2 m	77	36	63	12	24	13	320	EKSA 12 V
G 3/4 m	80	36	63	15	24	18	335	EKSA 34 V
G 1 m	82	36	63	15	24	18	370	EKSA 10 V

MODY-Safety-Screwing Couplings with female thread (DIN 3238)

Thread connection	L	SW	B	L1	SW1	Passage	Weight	Type No.
G 1/2 f	80	36	63	15	24	18	345	EKSI 12 V
G 3/4 f	95	36	63	15	32	18	430	EKSI 34 V
G 1 f	100	36	63	20	41	18	530	EKSI 10 V

Original Rubber Ring for MODY-Safety Claw Couplings

Resistance	L	D	D1	Material	Temp.°C	Colour	Shore A	Version	☉	Weight	Type No.
Chem. media	4	30	21	FKM	-30 / +200	green	70°	DIN 3238	10	2	SVOR-N
Chem. media	7	32.5	21	FKM	-30 / +200	green	60°	ALT	10	5	SVOR
Steam	4	30	21	TFEP	-15 / +200	red	65°	DIN 3238	10	1,7	SDOR-N
Foods	4	30	21	EPDM	-40 / +130	nature	75°	DIN 3238	10	2	SPOR-N



Chemical and Industrial Fittings



For applications with aggressive and challenging conditions in the chemical and industrial sector (e.g. chemical and petrochemical industry, construction industry, machine and plant manufacturing, shipbuilding, agriculture, steel industry as well as medical technology) **LUDECKE** offers extremely resistant and robust fittings.

Of course, all products meet the respective standards in order to guarantee the highest level of safety and reliability in this critical area.

Advantages:

- High-quality couplings and fittings made of stainless steel 1.4401/ 1.4305, steel or brass
- Sturdy, reliable, absolutely leakage-proof and durable
- Easy handling
- Maximum bore for maximum flow rate
- Different sizes and connection types

Broad Range

The **LUDECKE** chemical and industrial fittings provide Kamlok quick couplings and plugs, steam screwings, thread stems as well as the tried and tested SoftFlow material conveying quick connect couplings.



Kamlok Quick Couplings and Plugs



Kamlok quick couplings are extremely robust couplings to connect large volume hoses to each other or plants. In this asymmetrical coupling system, a male and female part is locked by two handles.

This popular coupling system originates from the USA and is based on the US standard MIL-C 27487. For Europe DIN EN 14420-7 (former DIN 2828) is obligatory.

The main difference is the hose assembly. Couplings according to the MIL standard use clamps whereas couplings according to DIN EN 14420-7 use forged safety clamps.

Steam Screwings



When working with saturated steam or hot water, **LUDECKE** offers solid and sturdy steam screwings made of steel, stainless steel or brass. The steam screwings are available as female and male thread screwings for safety clamps.

Thread Stems



The **LUDECKE** female and male thread stems enable direct connection or can be used as adaptors for Kamlok quick couplings, tank truck couplings, etc.

They are available in brass as well as in stainless steel and need to be assembled with aluminium clamps.

SoftFlow Material Conveying Quick Connect Couplings



The **LUDECKE** SoftFlow material conveying quick connect couplings are a high-quality quick coupling system for pressure and vacuum conveying of bulk material or liquids (e.g. for vacuum-conveying granulate).

Due to their quick coupling principle with ball shut-off and light weight, the couplings are especially easy to handle. The coupling body is made of stainless steel for less abrasion.

**Soft
Flow**
by **LUDECKE**

Overview of Chemical and Industrial Fittings

	Kamlok Quick Couplings	Steam Screwings	Thread Stems	SoftFlow Material Conveying Quick Connect Couplings
Series/Nominal diameter:	DIN EN 14 420-7	DIN EN 14 423	DIN EN 14 420-5	DN 41



Materials				
Body:	-	Steel zinc pl. yellow pass., Brass MS 58 plain, Stainless Steel 1.4305	-	Stainless Steel 1.4305
Sleeve:	-	-	-	Aluminium (hard coated)
Coupling body:	Stainless Steel 1.4401 electropolished	-	Stainless Steel 1.4408 electro- polished / MS 58 plain	-
Valve body:	-	-	-	Stainless Steel 1.4305
Clamp:	-	Brass MS 58 plain	-	-
Springs, Retaining ring:	-	-	-	Stainless Steel 1.4310
Balls:	-	-	-	Stainless Steel 1.4304
Screwing:	-	Dacro 500 A coated	-	Stainless Steel 1.4301
Seals:	NBR	Frenzelit Novapress Multi II	-	NBR
Special seals for other media on request:	Hypalon, EPDM, FKM	-	-	-
Handle:	Stainless Steel 1.4401 electropolished	-	-	-
Plug:	Stainless Steel 1.4401 electropolished	-	-	Stainless Steel 1.4305
Max. Working Pressure:	PN 16 bar	PN 18 bar	PN 25 bar	PN 10 bar
Temperature:	-40°C – + 95°C	up to +210°C (satur. steam)/ up to +120°C (hot water)	-40°C – + 95°C	-15°C – + 95°C
Thread types:	-	ISO 228/ DIN EN 10226	ISO 228	-
Page:	335	340	344	346

Kamlok Quick Couplings and Plugs

DIN EN 14 420-7 made of Stainless Steel 1.4401 electropolished

- High-quality, robust couplings according to DIN EN 14 420-7 (former DIN 2828) made of stainless steel 1.4401 for safety clamps
- Interchangeable with common worldwide used types
- Surface electropolished, couplings always come with handle securing and safety clips
- Hose stem machined
- Seals made of NBR, Hypalon, EPDM and FKM, as well as handles and spare parts
- **Universal coupling for aggressive media (depending on mixture/ concentration) in chemical and petrochemical industry, steel and food industry, medical technology, shipbuilding or agriculture**

Materials

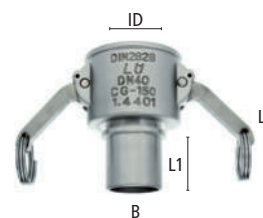
- Female part, male part, handle: Stainless Steel 1.4401 electropolished
- Seals: NBR

Max. Working Pressure	Temperature	Norm	Media	
PN 16 bar	-40°C – +95°C	DIN EN 14 420-7	Different	1

Couplings with hose stem for safety clamps (DIN EN 14 420-7 Form CC)

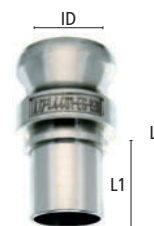
Hose connection	L	B	Type-Size	ID	L1	Passage	DN	Version	Weight	Type No.
Hose 19x6	77	60	75	32.4	35	14.5	20	KSA 30-33	254	75-CG-SS-BU
Hose 25x6	83	66	100	37.3	35	21	25	KSA 36-39	335	100-CG-SS-BU
Hose 32x6	89	77	125	46	35	27.5	32	KSA 43-46	570	125-CG-SS-BU
Hose 38x6.5	91	82	150	54	34.5	33	40	KSA 50-53	653	150-CG-SS-BU
Hose 50x8	103	95	200	63.8	41	45.5	50	KSA 63-67	894	200-CG-SS-BU
Hose 63x8	120	107	250	76.5	53	58.5	65	KSA 78-82	1273	250-CG-SS-BU
Hose 75x8	127	132	300	92.2	57	70	80	KSA 89-93	1645	300-CG-SS-BU

Aluminium clamps (☺ page 344)



Plugs with hose stem for safety clamps (DIN EN 14 420-7 Form EC)

Hose connection	L	Type-Size	ID	L1	Passage	DN	Version	Weight	Type No.
Hose 19x6	70	75	32.1	35	15	20	KSA 30-33	120	75-EG-SS
Hose 25x6	78	100	36.7	35	20.5	25	KSA 36-39	190	100-EG-SS
Hose 32x6	84	125	45.5	35	27.5	32	KSA 43-46	323	125-EG-SS
Hose 38x6.5	85	150	53.4	34.5	33	40	KSA 50-53	400	150-EG-SS
Hose 50x8	100	200	63	41	45	50	KSA 63-67	586	200-EG-SS
Hose 63x8	113	250	75.8	53	56.5	65	KSA 78-82	882	250-EG-SS
Hose 75x8	120	300	91.5	57	70	80	KSA 89-93	1122	300-EG-SS



Current information about standards:

- DIN 2828 is replaced by DIN EN 14 420-7
- New form markings:
 - female part with stem: Form CC
 - female part with female thread: Form DF
 - female part with male thread: Form BF
 - female part with blind cap: Form DC
 - male part with stem: Form EC
 - male part with female thread: Form AF
 - male part with male thread: Form FF
 - male part with sealing plug: Form DP
- The form markings on female and male part are adapted accordingly
- Type approval tests and quality control: all types are checked using test jack connectors and defined test criteria
- Manufacturer should be certified according to DIN EN ISO 9001:2000
- New maximum operating pressure of 16 bar or application limit of used pipes or hose lines



Kamlok Quick Couplings

DIN EN 14 420-7, MIL-C-27487 made of Stainless Steel 1.4401

- High-quality, robust couplings according to US-Mil.-Standard (MIL-C-27487) or DIN EN 14 420-7 (former DIN 2828) made of stainless steel 1.4401
- Interchangeable with common worldwide used types
- Female threads with thread sealing ring made of PTFE
- Seals made of NBR, Hypalon, EPDM and FKM, as well as handles and spare parts
- Couplings always come with handle securing and safety clips (steel zinc-plated)
- **Universal coupling for aggressive media (depending on mixture/ concentration) in chemical and petrochemical industry, steel and food industry, medical technology, shipbuilding or agriculture**
- **Current information about standards for DIN EN 14 420-7 (page 335)**

Materials

- Female part, male part, handle: Stainless Steel 1.4401
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Norm	Media	
PN 16 bar	-40°C – +95°C	ISO 228 / DIN EN 10226	MIL-C-27487/ DIN EN 14 420-7	Different	1

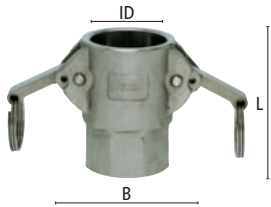
Couplings with hose stem (MIL-C-27487)

Hose connect.	L	B	Type-Size	ID	Passage	DN	System	Weight	Type No.
Hose i.D. 13	86	40	50	24.5	8	15	one handle w/o safety clip	150	50-C-SS-BU
Hose i.D. 19	82	63	75	32.4	14	20	two handles w safety clip	238	75-C-SS-BU
Hose i.D. 25	97	72	100	37.3	20	25	two handles w safety clip	358	100-C-SS-BU
Hose i.D. 32	108	83	125	46	25.5	32	two handles w safety clip	600	125-C-SS-BU
Hose i.D. 38	112	90	150	54	32	40	two handles w safety clip	723	150-C-SS-BU
Hose i.D. 50	130	102	200	63.8	44	50	two handles w safety clip	846	200-C-SS-BU
Hose i.D. 63	136	119	250	76.5	56.5	65	two handles w safety clip	1214	250-C-SS-BU
Hose i.D. 75	162	135	300	92.2	75	80	two handles w safety clip	1834	300-C-SS-BU
Hose i.D. 100	163	174	400	120.3	95	100	two handles w safety clip	3045	400-C-SS-BU



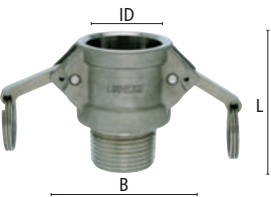
Couplings with female thread and thread sealing ring (DIN EN 14 420-7 Form DF)

Thread connect.	L	B	Type-Size	ID	Passage	DN	System	Weight	Type No.
G 1/2 f	45	40	50	24.5	15	15	one handle w/o safety clip	147	50-D-SS-BU
G 3/4 f	51	63	75	32.4	17.5	20	two handles w safety clip	265	75-D-SS-BU
G 1 f	62	72	100	37.3	23	25	two handles w safety clip	398	100-D-SS-BU
G 1 1/4 f	70	83	125	46	31	32	two handles w safety clip	773	125-D-SS-BU
G 1 1/2 f	71	90	150	54	37	40	two handles w safety clip	817	150-D-SS-BU
G 2 f	78	102	200	63.8	47	50	two handles w safety clip	880	200-D-SS-BU
G 2 1/2 f	77	119	250	76.5	62	65	two handles w safety clip	1221	250-D-SS-BU
G 3 f	91	135	300	92.2	75	80	two handles w safety clip	1802	300-D-SS-BU
G 4 f	85	174	400	120.3	103	100	two handles w safety clip	2354	400-D-SS-BU



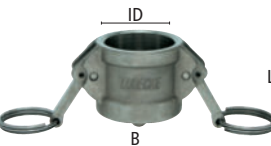
Couplings with male thread (DIN EN 14 420-7 Form BF)

Thread connect.	L	B	Type-Size	ID	Passage	DN	System	Weight	Type No.
R 1/2 m	47	40	50	24.5	14	15	one handle w/o safety clip	130	50-B-SS-BU
R 3/4 m	54	63	75	32.4	19	20	two handles w safety clip	233	75-B-SS-BU
R 1 m	64	72	100	37.3	25	25	two handles w safety clip	343	100-B-SS-BU
R 1 1/4 m	70	83	125	46	32	32	two handles w safety clip	592	125-B-SS-BU
R 1 1/2 m	71	90	150	54	38	40	two handles w safety clip	694	150-B-SS-BU
R 2 m	77	102	200	63.8	51	50	two handles w safety clip	708	200-B-SS-BU
R 2 1/2 m	85	119	250	76.5	63	65	two handles w safety clip	1007	250-B-SS-BU
R 3 m	95	135	300	92.2	75	80	two handles w safety clip	1438	300-B-SS-BU
R 4 m	90	174	400	120.3	102	100	two handles w safety clip	1988	400-B-SS-BU



Dust cap (DIN EN 14 420-7 Form DC)

L	B	Type-Size	ID	DN	System	Weight	Type No.
42	40	50	24.5	15	one handle w/o safety clip	123	50-DC-SS-BU
42	63	75	32.4	20	two handles w safety clip	183	75-DC-SS-BU
49	72	100	37.3	25	two handles w safety clip	274	100-DC-SS-BU
57	83	125	46	32	two handles w safety clip	493	125-DC-SS-BU
59	90	150	54	40	two handles w safety clip	559	150-DC-SS-BU
63	102	200	63.8	50	two handles w safety clip	756	200-DC-SS-BU
67	119	250	76.5	65	two handles w safety clip	897	250-DC-SS-BU
70	135	300	92.2	80	two handles w safety clip	1296	300-DC-SS-BU
70	174	400	120.3	100	two handles w safety clip	1898	400-DC-SS-BU



Kamlok Quick Plugs

made of Stainless Steel 1.4401

Plugs with hose stem (MIL-C-27487)

Hose connect.	L	Type-Size	ID	Passage	DN	Weight	Type No.
Hose i.D. 13	87	50	24.3	8	15	120	50-E-SS
Hose i.D. 19	88	75	32.1	14	20	171	75-E-SS
Hose i.D. 25	103	100	36.7	20	25	284	100-E-SS
Hose i.D. 32	110	125	45.5	25	32	442	125-E-SS
Hose i.D. 38	116	150	53.4	32	40	563	150-E-SS
Hose i.D. 50	146	200	63	43	50	812	200-E-SS
Hose i.D. 63	148	250	75.8	56	65	1186	250-E-SS
Hose i.D. 75	167	300	91.5	67	80	1815	300-E-SS
Hose i.D. 100	175	400	119.5	93	100	2945	400-E-SS



Plugs with female thread and thread sealing ring (DIN EN 14 420-7 Form AF)

Thread connect.	L	Type-Size	ID	Passage	DN	Weight	Type No.
G 1/2 f	41	50	24.3	14	15	76	50-A-SS
G 3/4 f	42	75	32.1	22	20	171	75-A-SS
G 1 f	52	100	36.7	24	25	222	100-A-SS
G 1 1/4 f	58	125	45.5	29	32	386	125-A-SS
G 1 1/2 f	62	150	53.4	38	40	493	150-A-SS
G 2 f	71	200	63	51	50	644	200-A-SS
G 2 1/2 f	75	250	75.8	58	65	945	250-A-SS
G 3 f	79	300	91.5	74	80	1320	300-A-SS
G 4 f	81	400	119.5	97	100	2118	400-A-SS



Plugs with male thread (DIN EN 14 420-7 Form FF)

Thread connect.	L	Type-Size	ID	Passage	DN	Weight	Type No.
R 1/2 m	49	50	24.3	14	15	103	50-F-SS
R 3/4 m	64	75	32.1	22	20	185	75-F-SS
R 1 m	72	100	36.7	24	25	258	100-F-SS
R 1 1/4 m	81	125	45.5	29	32	477	125-F-SS
R 1 1/2 m	82	150	53.4	38	40	565	150-F-SS
R 2 m	90	200	63	51	50	650	200-F-SS
R 2 1/2 m	105	250	75.8	58	65	1317	250-F-SS
R 3 m	104	300	91.5	74	80	1766	300-F-SS
R 4 m	114	400	119.5	97	100	2804	400-F-SS



Dust Plugs (DIN EN 14 420-7 Form DP)

L	Type-Size	ID	DN	Weight	Type No.
36	50	24.3	15	73	50-DP-SS
39	75	32.1	20	93	75-DP-SS
46	100	36.7	25	139	100-DP-SS
55	125	45.5	32	260	125-DP-SS
57	150	53.4	40	335	150-DP-SS
60	200	63	50	441	200-DP-SS
66	250	75.8	65	657	250-DP-SS
66	300	91.5	80	804	300-DP-SS
68	400	119.5	100	1525	400-DP-SS



Spare Parts for Kamlok Quick Couplings

DIN EN 14 420-7, US MIL-Norm C-27487

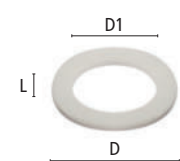
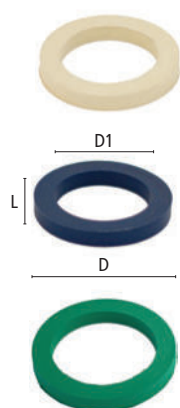
- Replacement seals, thread sealing rings, handles and chain

Materials

- Sealing rings, thread sealing rings: see below
- Handle: Stainless Steel 1.4401
- Chain: Stainless Steel 1.4301

Max. Working Pressure	Temperature	Norm	Media
PN 16 bar	-40°C – + 95°C	MIL-C-27487/ DIN EN 14 420-7	Different

Sealing Rings for Kamlok-Couplings



Material: NBR

Colour: black

L	D	Type-Size	D1	DN	Weight	Type No.
4	27	50	17.5	15	2	EDR-50-BU
5.5	35	75	22	20	4	EDR-75-BU
6.5	39	100	27	25	6	EDR-100-BU
6.5	49	125	34.5	32	8	EDR-125-BU
6.5	55	150	41	40	9	EDR-150-BU
6.5	66	200	51	50	12	EDR-200-BU
6.5	79	250	60	65	13	EDR-250-BU
6.5	95	300	76	80	15	EDR-300-BU
6.5	124	400	101	100	23	EDR-400-BU

Thread Sealing Rings for female thread parts according to DIN EN 14 420-5 or 14 420-7

Material: PTFE

L	D	Type-Size	D1	Weight	Type No.
2	21	50	15	1	GDR-50-PTFE
2	26	75	18	1	GDR-75-PTFE
2	33	100	23	2	GDR-100-PTFE
2	42	125	32	2	GDR-125-PTFE
2	48	150	38	3	GDR-150-PTFE
2	60	200	49	3	GDR-200-PTFE
2	76	250	63	4	GDR-250-PTFE
2	88	300	77	5	GDR-300-PTFE
2	114	400	100	6	GDR-400-PTFE

Sealing Rings made of PTFE for female thread fittings made of stainless steel

Sealing Rings made of PUR for female thread fittings made of brass

Handle with safety ring and slotted pin for stainless steel Kamlok-Couplings



Type-Size	Weight	Type No.
50-75	19	KAH 1
100	29	KAH 2
125, 150, 200, 250	68	KAH 3
300, 400	110	KAH 4

Chain made of stainless steel for Dust Caps and Plugs



L	Weight	Type No.
200	7	EKMV-K

Spare Parts for Kamlok Quick Couplings

DIN EN 14 420-7, US MIL-Norm C-27487

				Teflon-packed (U-form) with	
Hypalon		EPDM		FKM	
Colour:	blue	Colour:	beige	Colour:	green
				EPDM ₇ core	
Type No.		Type No.		Type No.	Type No.
EDR-50-HYP*		EDR-50-EPDM* ¹		EDR-50-FPM*	- -
EDR-75-HYP		EDR-75-EPDM ¹		EDR-75-FPM	EDR-75-EPPT 10
EDR-100-HYP		EDR-100-EPDM ¹		EDR-100-FPM	EDR-100-EPPT 10
EDR-125-HYP		EDR-125-EPDM ¹		EDR-125-FPM	EDR-125-EPPT 10
EDR-150-HYP		EDR-150-EPDM ¹		EDR-150-FPM	EDR-150-EPPT 10
EDR-200-HYP		EDR-200-EPDM ¹		EDR-200-FPM	EDR-200-EPPT 10
EDR-250-HYP*		EDR-250-EPDM*		EDR-250-FPM*	EDR-250-EPPT 10
EDR-300-HYP		EDR-300-EPDM		EDR-300-FPM	EDR-300-EPPT 10
EDR-400-HYP*		EDR-400-EPDM*		EDR-400-FPM*	EDR-400-EPPT 10

*black with colour coding

¹ food resistant according to FDA 177.2600 cfr 21

	PUR
	├──
Type No.	
GDR-50-PUR	
GDR-75-PUR	
GDR-100-PUR	
GDR-125-PUR	
GDR-150-PUR	
GDR-200-PUR	
GDR-250-PUR	
-	
-	

Steam Screwings

Thread Screwings (DIN EN 14 423)

- Solid, extreme robust female and male thread screwings made of steel, stainless steel 1.4305 or brass incl. safety clamps made of brass, according to DIN EN 14 423 (former DIN 2826)
- Female thread screwings consisting of two parts, swivelling
- Connecting nut flat sealing with female thread sealing ring Frenzelit Novapress Multi II
- Screws for safety clamps DIN 912 - 12.9 (Dacro 500 A coated)
- Pressure-Temperature Table Saturated Steam (☺ page 413)
- **To be used for saturated steam up to +210°C, or hot water up to +120°C and up to 18 bar working pressure**

Materials

- Connector: Steel zinc-plated and yellow passivated (free of chrome VI)/ Brass MS 58 plain/ Stainless Steel 1.4305
- Safety clamps: Brass MS 58 plain
- Seals: Frenzelit Novapress Multi II
- Screw: Dacro 500 A coated

Max. Working Pressure	Temperature	Thread	Norm	Media	
PN 18 bar	sat.steam +210°C/ hot water +120°C	ISO 228/DIN EN 10226	DIN EN 14 423	sat. steam / hot water	1

Male thread screwings made of steel (zinc-plated and yellow passivated, free of chrome VI) with safty clamp made of brass*

Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	R 1/2 m	95	22	53	16	15	9	447	DAK 12-13 ST
Hose 19x7	R 3/4 m	95	27	68	17	20	14	700	DAK 34-19 ST
Hose 25x7.5	R 1 m	100	36	77	21	25	20	933	DAK 10-25 ST
Hose 38x8	R 1 1/2 m	125	50	101	22	40	33	1940	DAK 15-38 ST
Hose 50x9	R 2 m	140	60	111	26	50	44	2631	DAK 20-50 ST

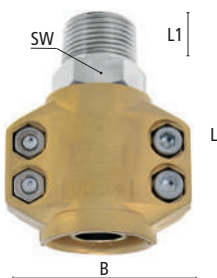
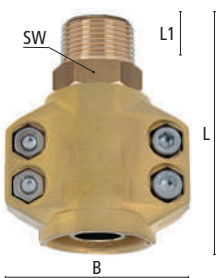
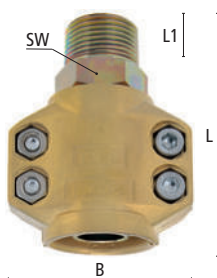
Male thread screwings made of brass MS 58 with safety clamp made of brass*

Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	R 1/2 m	95	22	53	16	15	9	447	DAK 12-13 MS
Hose 19x7	R 3/4 m	95	27	68	17	20	14	700	DAK 34-19 MS
Hose 25x7.5	R 1 m	100	36	77	21	25	20	940	DAK 10-25 MS
Hose 38x8	R 1 1/2 m	125	50	101	22	40	33	1940	DAK 15-38 MS
Hose 50x9	R 2 m	140	60	111	26	50	44	2631	DAK 20-50 MS

Male thread screwings made of stainless steel 1.4305 with safety clamps made of brass*

Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	R 1/2 m	95	22	53	11	15	9	460	DAK 12-13 SS
Hose 19x7	R 3/4 m	95	27	68	15	20	14	530	DAK 34-19 SS
Hose 25x7.5	R 1 m	100	36	77	16	25	20	670	DAK 10-25 SS

*without sealing ring



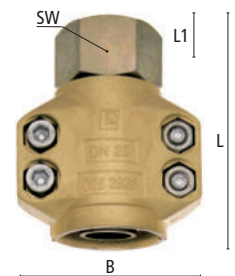
Steam Screwings

Thread Screwings (DIN EN 14 423)

Female thread screwings made of steel (zinc-plated and yellow passivated, free of chrome VI) with safety clamp made of brass

Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	G 1/2 f	88	27	53	11	15	9	480	DIK 12-13 ST
Hose 19x7	G 3/4 f	92	32	68	15	20	14	680	DIK 34-19 ST
Hose 25x7.5	G 1 f	93	41	77	16	25	20	1022	DIK 10-25 ST
Hose 38x8	G 1 1/2 f	120	55	101	18	40	33	1930	DIK 15-38 ST
Hose 50x9	G 2 f	131	70	111	19	50	44	2613	DIK 20-50 ST

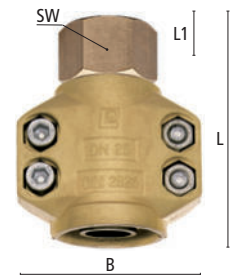
Attention: Replace female thread sealing ring when screwing is reused!



Female thread screwings made of brass MS 58 with safety clamp made of brass

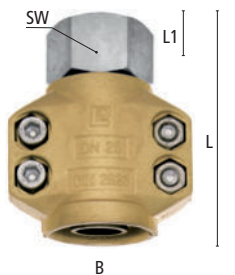
Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	G 1/2 f	88	27	53	11	15	9	480	DIK 12-13 MS
Hose 19x7	G 3/4 f	92	32	68	15	20	14	680	DIK 34-19 MS
Hose 25x7.5	G 1 f	93	41	77	16	25	20	1022	DIK 10-25 MS
Hose 38x8	G 1 1/2 f	120	55	101	18	40	33	1930	DIK 15-38 MS
Hose 50x9	G 2 f	131	70	111	19	50	44	2613	DIK 20-50 MS

Attention: Replace female thread sealing ring when screwing is reused!



Female thread screwings made of stainless steel 1.4305 with safety clamp made of brass

Hose connect.	Thread connect.	L	SW	B	L1	DN	Passage	Weight	Type No.
Hose 13x6	G 1/2 f	88	27	53	11	15	9	530	DIK 12-13 SS
Hose 19x7	G 3/4 f	92	32	68	15	20	14	700	DIK 34-19 SS
Hose 25x7.5	G 1 f	93	41	77	16	25	20	950	DIK 10-25 SS



Steam Screwings

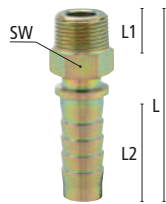
Female and Male Thread Stems for Hose Fittings with Clamp Frame (DIN EN 14 423)

- Massive, very robust female and male thread stems made of steel, stainless steel 1.4305 or brass according to DIN EN 14 423 (former DIN 2826)
- For combination with safety clamps KSM (☺ page 343)
- Pressure-Temperature Table Saturated Steam (☺ page 413)
- To be used for saturated steam up to + 210°C, or hot water up to + 120°C and up to 18 bar working pressure

Materials

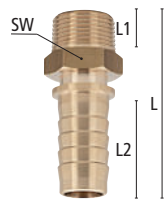
- Thread stems: Steel zinc-plated and yellow passivated (free of chrome VI)/ Brass MS 58 plain/ Stainless Steel 1.4305
- Seals: Frenzelit Novapress Multi II

Max. Working Pressure	Temperature	Thread	Norm	Media
PN 18 bar	sat. steam +210°C/ hot water +120°C	ISO 228/ DIN EN 10226	DIN EN 14423	sat. steam/ hot water



Male thread stems made of steel (zinc-plated and yellow passivated, free of chrome VI)*

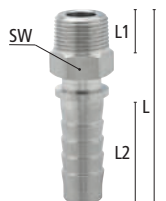
Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	Weight	Type No.
Hose 13x6	R 1/2 m	90	22	16	52	9	15	KSM 12 D	110	DA 12-13 ST
Hose 19x7	R 3/4 m	91	27	17	52	14	20	KSM 34 D	170	DA 34-19 ST
Hose 25x7.5	R 1 m	95	36	21	52	20	25	KSM 10 D	270	DA 10-25 ST
Hose 38x8	R 1 1/2 m	118	50	22	72	33	40	KSM 15 D	510	DA 15-38 ST
Hose 50x9	R 2 m	131	60	26	75	44	50	KSM 20 D	830	DA 20-50 ST



Male thread stems made of brass MS 58*

Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	Weight	Type No.
Hose 13x6	R 1/2 m	90	22	16	52	9	15	KSM 12 D	120	DA 12-13 MS
Hose 19x7	R 3/4 m	91	27	17	52	14	20	KSM 34 D	185	DA 34-19 MS
Hose 25x7.5	R 1 m	95	36	21	52	20	25	KSM 10 D	280	DA 10-25 MS
Hose 38x8	R 1 1/2 m	118	50	22	72	33	40	KSM 15 D	550	DA 15-38 MS
Hose 50x9	R 2 m	131	60	26	75	44	50	KSM 20 D	900	DA 20-50 MS

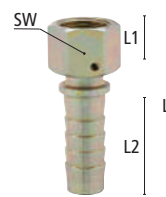
Other dimensions on request



Male thread stems made of stainless steel 1.4305*

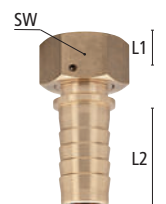
Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	Weight	Type No.
Hose 13x6	R 1/2 m	90	22	16	52	9	15	KSM 12 D	115	DA 12-13 SS
Hose 19x7	R 3/4 m	91	27	17	52	14	20	KSM 34 D	175	DA 34-19 SS
Hose 25x7.5	R 1 m	95	36	21	52	20	25	KSM 10 D	270	DA 10-25 SS

Other dimensions on request



Female thread stems made of steel (zinc-plated and yellow passivated, free of chrome VI)

Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	Weight	Type No.
Hose 13x6	G 1/2 f	82.5	27	11	52	9	15	KSM 12 D	125	DI 12-13 ST
Hose 19x7	G 3/4 f	86.5	32	15	52	14	20	KSM 34 D	180	DI 34-19 ST
Hose 25x7.5	G 1 f	87.5	41	16	52	20	25	KSM 10 D	280	DI 10-25 ST
Hose 38x8	G 1 1/2 f	111.5	55	18	72	33	40	KSM 15 D	515	DI 15-38 ST
Hose 50x9	G 2 f	119.5	70	19	75	44	50	KSM 20 D	810	DI 20-50 ST



Female thread stems made of brass MS 58

Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	Weight	Type No.
Hose 13x6	G 1/2 f	82.5	27	11	52	9	15	KSM 12 D	130	DI 12-13 MS
Hose 19x7	G 3/4 f	86.5	32	15	52	14	20	KSM 34 D	200	DI 34-19 MS
Hose 25x7.5	G 1 f	87.5	41	16	52	20	25	KSM 10 D	320	DI 10-25 MS
Hose 38x8	G 1 1/2 f	111.5	55	18	72	33	40	KSM 15 D	570	DI 15-38 MS
Hose 50x9	G 2 f	119.5	70	19	75	44	50	KSM 20 D	890	DI 20-50 MS

Other dimensions on request



Female thread stems made of stainless steel 1.4305

Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	Weight	Type No.
Hose 13x6	G 1/2 f	82.5	27	11	52	9	15	KSM 12 D	155	DI 12-13 SS
Hose 19x7	G 3/4 f	86.5	32	15	52	14	20	KSM 34 D	185	DI 34-19 SS
Hose 25x7.5	G 1 f	87.5	41	16	52	20	20	KSM 10 D	265	DI 10-25 SS

*without sealing ring

- High-quality, robust safety clamps made of brass (DIN EN 14 423/ former DIN 2826)
- Simple, safe and re-usable hose connection for steam screwings
- Packed unassembled incl. screws and nuts



Materials

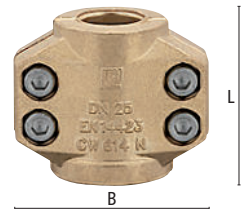
- Clamp: Brass MS 58 plain
- Screws: Dacro 500 A coated

Max. Working Pressure	Temperature	Norm	
PN 18 bar	Sat. steam +210°C/ Hot water +120°C	DIN EN 14 423	1

Safety clamps made of brass MS 58 (screws DIN 912-12.9 - Dacro 500 A coated)

Hose connection	Clamping range	L	B	DN	Screw size	Weight	Type No.
Hose 13x6	24-27	65	53	15	M 6x20	336	KSM 12 D
Hose 19x7	32-35	65	68	20	M 8x25	499	KSM 34 D
Hose 25x7.5	39-42	65	77	25	M 8x25	742	KSM 10 D
Hose 38x8	53-56	90	101	40	M 10x40	1430	KSM 15 D
Hose 50x9	64-68	100	111	50	M 10x40	1756	KSM 20 D

Suitable for male and female thread stems DIN EN 14 423 (© page 342)



Original sealing rings Frenzelit Novapress Multi II for female threads

System	L	D	D1		Weight	Type No.
G 1/2 f	2	20	13	10	2	DGI 12
G 3/4 f	2	26	18	10	2	DGI 34
G 1 f	2	33	23	10	3	DGI 10
G 1 1/2 f	2	48	38	10	5	DGI 15
G 2 f	2	60	49	10	7	DGI 20

Hose Assembly of Hose Lines according to DIN EN 14 423

1. Push the hose stem (brushed with lubricant if needed) into a square coated hose.
At hoses with marking M the metallic conductor has to be connected with the screwing.
There should be a short distance between safety collar and hose end to take hose material compressed during assembly.
2. Put the clamp halves on the hose using the safety collar and fix everything with two mounting screws (tighten diagonally).
3. Put in the clamp screws and fix diagonally.
4. A small, parallel slit should remain between clamp halves.
5. After putting the hose into operation the screws should be fixed again.

Information about standards:

- DIN 2826 is replaced by DIN EN 14 423.
- The form markings on the parts are adapted accordingly.
- All types are checked using defined test criteria.
- Manufacturer should be certified according to DIN EN ISO 9001:2000.

Safety Clamps

made of Forged Aluminium (DIN EN 14 420-3)

- High-quality, robust clamps made of forged aluminium (DIN EN 14 420-3)
- Easy, safe and re-usable hose assembly of safety clamp fittings
- Packed unassembled incl. screws and nuts

Materials

- Safety clamps: Forged aluminium
- Screws: Dacro 500 A coated

Max. Working Pressure	Temperature	Norm	
PN 25 bar	-40°C – +95°C	DIN EN 14 420-3	1



Safety Clamps

Hose connection	Hose-o.D./Range	L	B	DN	Screws	Weight	Type No.
Hose 19x6	30-33	50	63	20	M 6x20	142	KSA 30-33
Hose 25x6	36-39	50	69	25	M 6x20	151	KSA 36-39
Hose 32x6	43-46	50	76	32	M 6x20	162	KSA 43-46
Hose 38x6.5	50-53	50	83	40	M 6x20	167	KSA 50-53
Hose 50x8	63-67	56	102	50	M 8x25	310	KSA 63-67
Hose 63x8	78-82	74	120	65	M 8x25	454	KSA 78-82
Hose 75x8	89-93	76	132	80	M 8x25	486	KSA 89-93
Hose 75x10	94-97	76	140	80	M 8x25	580	KSA 94-97

Other sizes on request

Hose assembly of safety clamps and hose fittings

1. Hose stem brushed with lubricant is pressed into straight-cut hose
2. Put the clamps halves on the hose using the safety collar and fix carefully in a vice
3. 4 Screws are fixed diagonally (with correct dimensioned hoses there keeps a small slit between clamp halves)

Thread Stems

Brass MS 58 (DIN EN 14 420-5)

- High-quality, robust male thread hose stems made of brass MS 58 (DIN EN 14 420-5/ former DIN 2817)
- Slightly grooved hose stem with safety collar for forged clamps
- For direct connection or as adaptor for Kamlok quick couplings, tank truck couplings, etc.
- To be used for petrochemical media or water in the industry, tank trucks or agriculture, etc.

Materials

- Thread stems: Brass MS 58 plain

Max. Working Pressure	Temperature	Thread	Norm	Media	
PN 25 bar	-40°C – +95°C	ISO 228	DIN EN 14 420-5	different	1



Male thread stems for safety clamps

Hose connect.	Thread connect.	L	SW	L1	L2	Passage	DN	System	Weight	Type No.
Hose 13x5	G 1/2 m	62	22	12	35	9	15	-	70	GTA 12-13 MS
Hose 19x6	G 3/4 m	63.5	27	13	34.5	14	20	KSA 30-33	105	GTA 34-19 MS
Hose 25x6	G 1 m	65	36	14	35	20.5	25	KSA 36-39	168	GTA 10-25 MS
Hose 32x6	G 1 1/4 m	66	46	15	35	27.5	32	KSA 43-46	215	GTA 54-32 MS
Hose 38x6.5	G 1 1/2 m	73.5	55	18	37	33	40	KSA 50-53	382	GTA 15-38 MS
Hose 50x8	G 2 m	80	65	20	40	45	50	KSA 63-67	537	GTA 20-50 MS

Thread Stems

Stainless Steel 1.4401 electropolished (DIN EN 14 420-5)

- High-quality, robust female and male-thread hose stems made of stainless steel electropolished (DIN EN 14 420-5/ former DIN 2817)
- Surface electropolished, stems finished
- Plain hose stem with safety collar for forged clamps
- Female threads flat sealing with thread-sealing ring made of PTFE
- For direct connection or as adaptor for Kamlok quick couplings, tank truck couplings etc.
- For the connection with safety clamps Type KSA (☹page 344)
- For aggressive fluids (according to concentration) in chemical and petrochemical industry, steel or food industry, medical technology, shipbuilding or agriculture

Materials

- Thread stem: Stainless Steel 1.4401 electropolished

Max. Working Pressure	Temperature	Thread	Norm	Media	
PN 25 bar	-40°C – +95°C	ISO 228	DIN EN 14 420-5	different	1

Male thread stems for safety clamps

Hose connect.	Thread connect.	L	SW	Passage	DN	System	Weight	Type No.
Hose 19x6	G 3/4 m	62	27	15	20	KSA 30-33	99	GTA 34-19 SS
Hose 25x6	G 1 m	63	36	20.5	25	KSA 36-39	148	GTA 10-25 SS
Hose 32x6	G 1 1/4 m	63.5	46	27.5	32	KSA 43-46	210	GTA 54-32 SS
Hose 38x6.5	G 1 1/2 m	66.5	55	33	40	KSA 50-53	290	GTA 15-38 SS
Hose 50x8	G 2 m	75.5	*	45	50	KSA 63-67	395	GTA 20-50 SS
Hose 63x8	G 2 1/2 m	94.5	*	58	65	KSA 78-82	655	GTA 25-63 SS
Hose 75x8	G 3 m	97.5	*	70	80	KSA 89-93	775	GTA 30-75 SS

* For hookring according to DIN 1810

Female thread stems for safety clamps (two parts screwing)

Hose connect.	Thread connect.	L	SW	Passage	DN	System	Weight	Type No.
Hose 19x6	G 3/4 f	60	30	15	20	KSA 30-33	92	GTI 34-19 SS
Hose 25x6	G 1 f	62	36	21	25	KSA 36-39	126	GTI 10-25 SS
Hose 32x6	G 1 1/4 f	64	46	28	32	KSA 43-46	190	GTI 54-32 SS
Hose 38x6.5	G 1 1/2 f	67	55	33	40	KSA 50-53	322	GTI 15-38 SS
Hose 50x8	G 2 f	77	65	45	50	KSA 63-67	440	GTI 20-50 SS
Hose 63x8	G 2 1/2 f	91	85	58	65	KSA 78-82	837	GTI 25-63 SS
Hose 75x8	G 3 f	100	100	70	80	KSA 89-93	1211	GTI 30-75 SS

Current information about standards:

- DIN 2817 is replaced by DIN EN 14 420-5
- The form markings on thread stems are adapted
- All types are checked using defined test criteria
- Manufacturer should be certified according to DIN EN ISO 9001:2000
- New maximum working pressure of 25 bar or application limit of used hose lines



SoftFlow Material Conveying Quick Connect Couplings

made of Stainless Steel 1.4305

DN 41

- High-quality quick coupling system for pressure or vacuum-conveying bulk material or liquids, eg. for vacuum-conveying granulate material in the plastics industry
- Low wearing due to coupling body made of stainless steel
- Coupling sleeve, plug and cap made of aluminium (hard coated)
- Full, straight-through passage without profile narrowing
- Light weight, easy to handle
- Quick coupling principle with ball shut-off for easy operation
- Easy manual replacement of sealing rings
- Perfectly adapted hose stems for PVC or polyurethane spiral hoses
- Plug and coupling for tube connection with double O-ring sealing and fixing with screw

Max. Working Pressure	Temperature	DN	Operation	Type of valve	Vacuum	Media	
PN 10 bar	-15° – +95° C	41	Two-hands	Straight-through	Vacuum	Plastic granulate	1



SoftFlow Coupling with hose stem

Hose connection	L	D	L1	DS	Passage	Weight	Type No.
Hose i.D. 38	82	65	45	49	34	340	GRK 38 T
Hose i.D. 40	82	65	45	49	36	340	GRK 40 T
Hose i.D. 45	82	65	45	49	41	340	GRK 45 T
Hose i.D. 50	82	65	45	49	41	360	GRK 50 T

For hose clips type HS/ HSE (© Page 194 - 195)



SoftFlow Vacuum Coupling for tube connection*

Connection	L	D	L1	DS	Passage	Weight	Type No.
Tube AD 38	70	65	30	49	34	480	GRK 38 R
Tube AD 40	70	65	30	49	36	480	GRK 40 R
Tube AD 45	70	65	30	49	41	520	GRK 45 R
Tube AD 50	70	65	30	49	41	580	GRK 50 R

*Attention: Only suitable for vacuum applications, sealing with O-ring, fixing with screw



SoftFlow Coupling with female thread

Thread connection	SW	L	D	L1	DS	Passage	Weight	Type No.
G 1 1/2 f	55	68	65	19	49	41	560	GRK 15 I
G 2 f	60	68	65	19	49	41	650	GRK 20 I



SoftFlow Cap Coupling with chain

L	D	DS	Chain Length	Weight	Type No.
48	68	49	170	320	GRK-V

Original Sealing Ring for coupling

Type	Size	Material		Weight	Type No.
O-ring	45 x 5	NBR	10	6	GRK-D

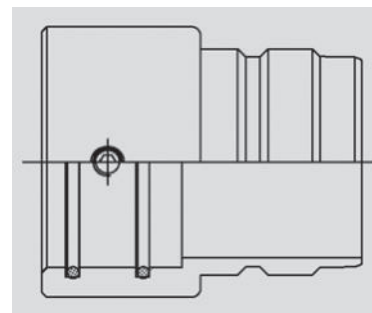
Adapted hose stems for other hose dimensions/ types on request



**Soft
Flow**
by LUDECKE

Materials

- Sleeve: Aluminium (hard coated)
- Valve body, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4304
- Seals: NBR
- Screw: Stainless steel 1.4301
- Plug: Aluminium (hard coated)



SoftFlow Plug with hose stem

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 38	83	55	45	36	49	34	310	GRS 38 T
Hose i.D. 40	83	55	45	36	49	36	315	GRS 40 T
Hose i.D. 45	83	55	45	36	49	41	330	GRS 45 T
Hose i.D. 50	83	55	45	36	49	41	360	GRS 50 T

For hose clips type HS/ HSE (© Page 194 - 195)



SoftFlow Vacuum Plug for tube connection*

Connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Tube AD 38	68.5	58	30	36	49	34	360	GRS 38 R
Tube AD 40	68.5	58	30	36	49	36	370	GRS 40 R
Tube AD 45	68.5	58	30	36	49	41	385	GRS 45 R
Tube AD 50	68.5	58	30	36	49	41	420	GRS 50 R

*Attention: Only suitable for vacuum applications, sealing with O-ring, fixing with screw



SoftFlow Plug with female thread

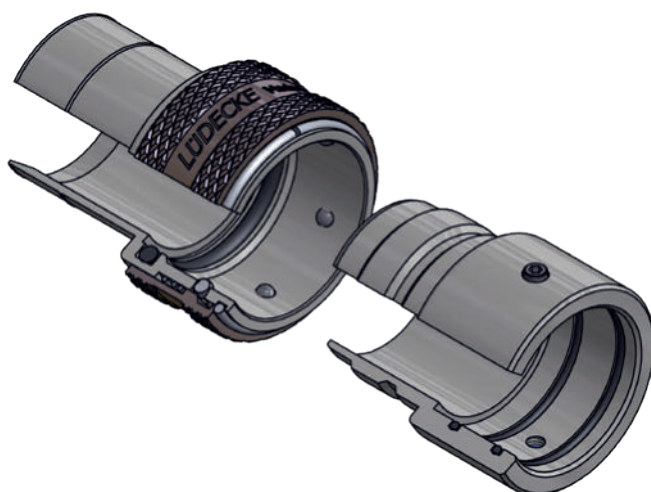
Thread connection	SW	L	D	L1	L2	DS	Passage	Weight	Type No.
G 1 1/2 f	55	65	59	19	36	49	41	350	GRS 15 I
G 2 f	60	65	59	19	36	49	41	380	GRS 20 I



SoftFlow Cap Plug with chain

L	D	L1	DS	Length chain	Weight	Type No.
60	58	36	49	170	195	GRS-V

Special types/ versions, i.e. with bulkhead-screwing, plug or colour coding, and other sizes on request



Couplings and Fittings for Snowmaking Systems



A first-class and reliable snow pump installation is characterised by perfectly functioning components which easily withstand extreme conditions (e.g. ice, snow, sun, large temperature fluctuations).

The SnowMaster by **LUDECKE**[®] series is a high-quality and extremely robust coupling system - adapted to these demanding areas of application. The products are TÜV accredited with regard to all safety-relevant features and undergo strict internal quality tests on a regular basis.

Using the SnowMaster fittings guarantees safe and reliable use of snow machines and outstanding operational safety.

Advantages:

- High-quality stainless steel 1.4401 or steel zinc-plated
- Robust, reliable, absolutely leakage-proof and durable
- Simple and easy handling
- Best flow rates, due to maximum bore
- Hose barb profiles are customised to the hose types used and optimised for the different assembly methods

SnowMaster[®]
by **LUDECKE**


Convincing Quality

The SnowMaster coupling system is based on the Kamlok system. However, it has a considerably reinforced housing including lever mounts, stainless steel investment casting handles with riveted high-pressure pins and a practical handle securing. The system is precisely designed for common hoses and assembly methods.



Broad Range

High-Pressure Quick Couplings



These special couplings are particularly suited for snow and pump machines, tunnelling, conveyor technology or other high-pressure applications with liquids.

The investment casted handle with high-pressure pin (crimped on both sides) ensures a safe connection between male and female part. The handle securing with robust cord made of stainless steel and safety clip prevent the handle from accidental opening.

Drain Adapter



The first-class SnowMaster drain adapters made of stainless steel allow for automatic drainage of the lines when turning off the plant or reducing the pressure to avoid frost damages in the plant and hose lines.




High-Pressure Screwings



The extremely robust hose barb adapters are used above all for stationary long-term installations of pipe and hose lines.

We offer male thread hose barbs for flat hoses or thick-walled hoses made of rubber as well as female thread hose barbs.

Overview of Couplings and Fittings for Snowmaking Systems

	High-Pressure Quick Couplings	Drain Adapter	High-Pressure Screwings
Series / nominal diameter:	US-Mil-Norm C-27487/ DIN EN 14 420-7		
			
Materials			
Body:	Steel zinc-plated + blue passivated	Stainless Steel 1.4401	Steel zinc-plated + blue passivated
Coupling body:	Stainless Steel 1.4401	Stainless Steel 1.4401	-
Valve:	-	MS 58 nickel-plated	-
Pin:	Stainless Steel 1.4401	Stainless Steel 1.4401	-
Cord:	Stainless Steel 1.4401	Stainless Steel 1.4401	-
Ring:	Stainless Steel 1.4401	Stainless Steel 1.4401	-
Clip:	Steel zinc-plated	Steel zinc-plated	-
Seals:	NBR	NBR	PUR*
Handle:	Stainless Steel 1.4401	Stainless Steel 1.4401	-
Max. Working Pressure:	PN 60 bar	PN 60 bar	PN 60 bar
Temperature:	-40°C – + 95°C	-40°C – + 95°C	-40°C – + 95°C
Thread Types:	ISO 228/ DIN EN 10226	-	-
Page:	350	352	352

*for female thread

High-Pressure Quick Couplings

made of Stainless Steel 1.4401 – System Kamlok PN 60 bar



- High-quality, robust high-pressure quick couplings made of stainless steel 1.4401
- Coupling dimensions according to US-Mil-Norm (MIL-C-27487) or DIN EN 14 420-7
- Considerably reinforced housing (compared to Standard Kamlock)
- Investment casted handle with high-pressure pins (crimped on both sides)
- Handle securing with robust cord (stainless steel) and safety clip
- TÜV accredited for working pressure up to 60 bar (burst pressure test 150 bar) for liquids*
- **Special coupling system to be used on snow pump installations, tunnelling, conveyor technology or different high-pressure applications with liquids**

Max. Working Pressure	Temperature	Thread	Norm	Media	
PN 60 bar*	-40°C – +95°C	ISO 228 / DIN EN 10226	MIL-C-27487/ DIN EN 14 420-7	Liquid media	1

Optional Stem-Types

for steelband



for crimping ferrule



for wire



for safety clamp

Couplings with hose stem for flat hoses or thick-walled rubber hoses

Hose connect.	Type-Size	ID	DN	System	Weight	Type No.
Hose i.D. 25-28	100	37.3	25	-	380	SKK 100-T
Hose i.D. 38-40	150	54	40	-	635	SKK 150-T
Hose i.D. 50-54	200	63.8	50	-	990	SKK 200-T
Hose i.D. 38-40	200	63.8	40	with thread stem	1360	SKK 200/150-T
Hose i.D. 63-67	250	76.8	65	-	2800	SKK 250-T**

Plugs with hose stem for flat hoses or thick-walled rubber hoses

Hose connect.	Type-Size	ID	DN	System	Weight	Type No.
Hose i.D. 25-28	100	36.7	25	-	230	SKS 100-T
Hose i.D. 38-40	150	53.4	40	-	425	SKS 150-T
Hose i.D. 50-54	200	63	50	-	740	SKS 200-T
Hose i.D. 38-40	200	63	40	with thread stem	1080	SKS 200/150-T
Hose i.D. 63-67	250	75.8	65	-	2450	SKS 250-T**

Attention: Nine different hose stem contours and dimensions are available as standard hose designs!

For each order the exact hose type, size and preferred assembly method has to be specified to choose the right hose stem version! For new stem profiles: minimum quantity is 50 sets.

Crimping ferrules made of steel (zinc-plated) for hydraulic crimping

Type-Size	System	Weight	Type No.
100	Flat hose	180	PH-100-S F
100	Rubber hose	215	PH-100-S G
150	Flat hose	219	PH-150-S F
150	Rubber hose	333	PH-150-S G
200	Flat hose	240	PH-200-S F
200	Rubber hose	360	PH-200-S G
250	Flat hose	370	PH-250-S F
250	Rubber hose	450	PH-250-S G

Attention: Specify the exact hose type and size in each case!

* Screwed with thread stem made of stainless steel

** Max. Working Pressure 40 bar



High-Pressure Quick Couplings

Materials

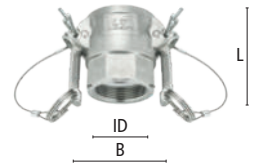
- Couplings, plug, handle: Stainless Steel 1.4401
- Screwing stem: Steel blue passivated
- Ferrule: Steel zinc-plated and blue passivated
- Seals: NBR
- Thread sealing ring: PTFE
- Screws: DACRO 500 A coated
- Pin, cord, ring: Stainless Steel 1.4401
- Clip: Steel zinc-plated (DIN 11024)



Snow®
Master
by **LUDECKE**

Couplings with female thread and thread sealing ring

Thread connection	L	B	Type-Size	ID	DN	Weight	Type No.
G 1 f	63	70	100	37.3	25	450	SKK 100 I
G 1 1/2 f	73	93	150	54	40	850	SKK 150 I
G 2 f	78	102	200	63.8	50	920	SKK 200 I
G 2 1/2 f	78	110	250	76.5	65	1300	SKK 250 I*



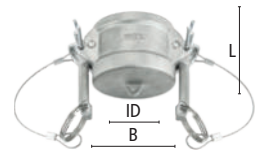
Couplings with male thread

Thread connection	L	B	Type-Size	ID	DN	Weight	Type No.
R 1 1/2 m	67	93	150	54	40	740	SKK 150 A
R 2 m	79	102	200	63.8	50	944	SKK 200 A



Dust Caps

L	B	Type-Size	ID	DN	Weight	Type No.
49	70	100	37.3	25	390	SKK 100-DC
59	93	150	54	40	480	SKK 150-DC
63	102	200	63.8	50	680	SKK 200-DC
67	110	250	76.5	65	920	SKK 250-DC*



Plugs with female thread and thread sealing ring (DIN EN 14 420-7 Form AF)

Thread connection	L	Type-Size	ID	Passage	DN	Weight	Type No.
G 1 f	52	100	36.7	24	25	222	100-A-SS
G 1 1/2 f	62	150	53.4	38	40	493	150-A-SS
G 2 f	71	200	63	51	50	644	200-A-SS
G 2 1/2 f	75	250	75.8	58	65	945	250-A-SS



Plugs with male thread (DIN EN 14 420-7 Form FF)

Thread connection	L	Type-Size	ID	Passage	DN	Weight	Type No.
R 1 m	72	100	36.7	24	25	258	100-F-SS
R 1 1/2 m	82	150	53.4	38	40	565	150-F-SS
R 2 m	90	200	63	51	50	650	200-F-SS
R 2 1/2 m	105	250	75.8	58	65	1317	250-F-SS



Dust Plugs (DIN EN 14 420-7 Form DP)

L	Type-Size	ID	DN	Weight	Type No.
46	100	36.7	25	139	100-DP-SS
57	150	53.4	40	335	150-DP-SS
60	200	63	50	441	200-DP-SS
66	250	75.8	65	657	250-DP-SS



Handle with high-pressure pin, Cord, Ring, Safety clip

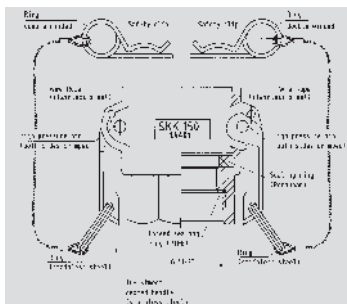
Type-Size	Weight	Type No.
150, 200, 250	89	SKH 1



*Max. Working Pressure 40 bar

Drain Adapter

with 3 Automatic Drainage Valves 3/4" and 2 fixing spears



- High-quality drain adaptor made of stainless steel 1.4401
- Automatic drainage of the lines when turning off the plant or reducing the pressure to avoid frost damages in the plant and hose lines.
- Simply assemble the adaptor at the lowest spot between snow pump and hydrant and fix it with two spears (60 cm length) in suitable position

Materials

- Body, handle: Stainless Steel 1.4401
- Valve: Brass MS 58 nickel-plated
- Seals: NBR
- Pin, cord, ring: Stainless Steel 1.4401
- Clip: Steel zinc-plated (DIN 11024)

Max. Working Pressure	Temperature	Media	
PN 60 bar	-40°C – +95°C	Liquid media	1

Drain Adaptor with 3 Automatic Drainage Valves 3/4" and 2 fixing spears

Connection	Type-Size	L	ID	ID1	DN	Weight	Type No.
Female/ Male	150	197	53.4	54	40	2870	SKK 150 EA
Female/ Male	200	216	63	63.8	50	4039	SKK 200 EA
Automatic Drainage Valves also available separately (7 bore)						160	EWV 34
Automatic Drainage Valves also available separately (1 bore)						170	EWV 341
Opening pressure of valves approx. 1 bar!							



High-Pressure Screwings

made of Steel Zinc-plated

- Extremely robust hose barb adapters for stationary long-term installations of pipe and hose lines
- Female thread stems with swivelling nut, flat sealing with thread sealing ring
- Complementary safety clamps and crimping ferrules (© page 344, 350)

Materials

- Hose stem: Steel zinc-plated and blue passivated
- Seals: PUR

Max. Working Pressure	Temperature	Thread	Media	
PN 60 bar	-40°C – +95°C	ISO 228 / DIN EN 10226	Liquid media	1

Male thread hose stems for flat hoses or thick-walled rubber hoses

Thread connection	Hose connection	SW	DN	Weight	Type No.
R 1 m	Hose i.D. 25-28	36	20	220	SGA 100-T
R 1 1/2 m	Hose i.D. 38-40	50	40	372	SGA 150-T
R 2 m	Hose i.D. 38-40	60	40	210	SGA 200/150-T
R 2 m	Hose i.D. 50-54	60	50	620	SGA 200-T

Female thread hose stems for flat hoses or thick-walled rubber hoses (with screwing nut)

Thread connection	Hose connection	SW	DN	Weight	Type No.
G 1 f	Hose i.D. 25-28	41	20	250	SGI 100-T
G 1 1/2 f	Hose i.D. 38-40	55	40	390	SGI 150-T
G 2 f	Hose i.D. 50-54	70	50	640	SGI 200-T

Attention: Nine different hose stem contours and dimensions are available as standard hose designs! For each order the exact hose type, size and preferred assembly method has to be specified to choose the right hose stem version! For new stem profiles: minimum quantity is 50 sets.

Other sizes on request!



Die elementare Verbindung



GEKA plus Claw Couplings for Strict Hygiene Requirements



GEKA plus Claw Couplings made of chromium steel are the universal couplings for applications in the chemical industry, for water, lye and different aggressive media as well as strict hygiene requirements.

The products have a patented high-performance sealing ring made of FKM with excellent elasticity properties. Depending on the application, we recommend hose clips or clamps for fixation.

Advantages:

- Easy to couple, high pressure and vacuum range, reduced tilting moment
- Maximum passage through perfect wall thickness
- Safe and hose-friendly hose barbs
- Ergonomically formed claws
- Safety notches against accidental loosening
- Different sizes and connection types

Easy Handling – Safe and Firm Grip



GEKA plus claw couplings are connected the same way as standard claw couplings. Push the two couplings together at 180° degrees opposite to each other until the seal faces touch. Afterwards, rotate one coupling half as far as it will go into the opposite direction of the other - the couplings lock into place.

GEKA plus Claw Couplings

made of Chromium Steel for Applications with Strict Hygiene Requirements

- High-quality couplings made of chromium steel similar to Stainless Steel 1.4401
- Easy to couple, high pressure and vacuum range, reduced tilting moment
- Maximum passage through perfect wall thickness as well as safe and hose-friendly hose barbs
- Ergonomically formed claws, safety notches against accidental loosening
- Patented high-performance rubber ring made of FKM (DIN ISO 1629) with excellent elastic properties
- **Universal coupling for applications in the chemical industry for water, lye or aggressive media**

strict hygien
requirements

Materials:

- Claw, connector: Chromium steel similar to Stainless steel 1.4401
- Seals: FKM

Max. Working Pressure	Temperature	Thread	Claw distance	Media	
PN 40 bar	-5°C – +100°C	ISO 228	40 mm	Water / Lye	5

Claw Couplings GEKA plus with hose barb

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	50	53.5	28	10	89	GSK 13 SS
Hose i.D. 19	52.5	53.5	32	17	92	GSK 19 SS
Hose i.D. 25	57.5	53.5	37	21.5	117	GSK 25 SS

For hose clips type SLE (☹ page 386), type HSE (☹ page 388)

Claw Couplings GEKA plus with female thread and thread sealing ring

Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/2 f	30.5	53.5	9.5	14	82	GKI 12 SS
G 3/4 f	31.5	53.5	10.5	19	88	GKI 34 SS
G 1 f	32.5	53.5	11	23	100	GKI 10 SS

Claw Couplings GEKA plus with male thread

Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/2 m	30.5	53.5	8	15	80	GKA 12 SS
G 3/4 m	33	53.5	8	20	91	GKA 34 SS
G 1 m	31	53.5	8	23	86	GKA 10 SS

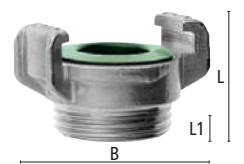
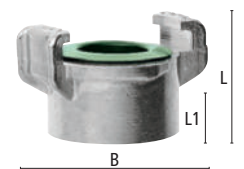
Male thread sealing with PVC sealing ring type HPD (☹ page 212)

Claw Coupling GEKA plus with plain end

Version	L	B	Weight	Type No.
without chain	36.5	53.5	85	GKO SS

Original Rubber Ring for GEKA plus Claw Couplings made of chromium steel

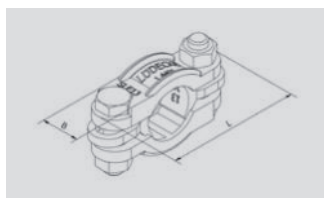
Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Water	10.8	33.5	20.5	FKM	-20 – +160	Water	green	65°	10	5	GKVR-N



Hose Clamps

made of Stainless Steel

- Robust clamps made of stainless steel 1.4401
- Robust, easy and secure hose assembly for various fittings and applications




Materials

- Clamps, Spacers: Stainless Steel 1.4401
- Screws: Stainless Steel A4-70

Max. Working Pressure	Norm
PN 16 bar	DIN 20039 A

Hose Clamps DIN 20039 A made of stainless steel 1.4401, two parts with loose spacers

Hose-o.D./							
Version	Range	L	B	Screw size		Weight	Type No.
Hose i.D. 13	18-26	63	18	M 8x30	5	140	SLE 13
Hose i.D. 19	26-33	71	18	M 8x30	5	160	SLE 19
Hose i.D. 25	32-40	81	18	M 10x35	5	210	SLE 25



High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High-performance hose clips made of stainless steel W5
- Optimum sealing through high belt tension – maximum strip safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable assembly of various hoses and fittings for different media

Materials

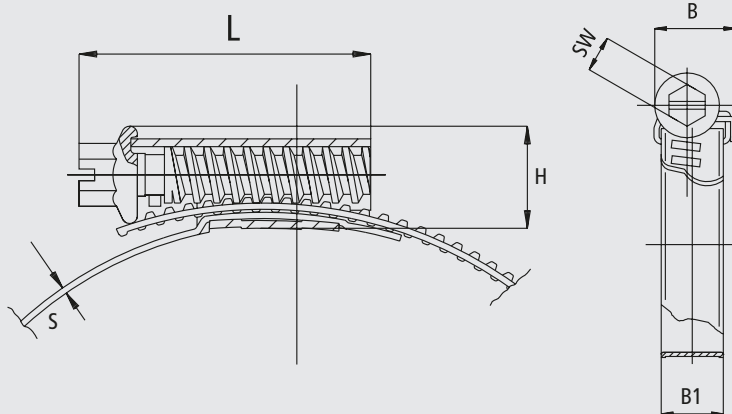
- Band, body, screw: Stainless steel W5

Norm

DIN 3017

High-Performance Hose Clips, band and lock made of stainless steel W 5

Range		torque		band-width		band-thickness					
mm	inch	B	SW	Max. Nm.	L	H	B1	S		Weight	Type No.
8-12	5/18-1/2	10.5	6	1.5	17	9.5	8	0.7	100	6	HSE 12
8-16	5/18-5/8	14	7	2-2.5	21	14	9	0.8	100	11	HSE 16
12-20	1/2-3/4	14	7	2-2.5	24	14	9	0.8	100	13	HSE 20
16-25	5/8-1	14	7	3-3.5	24	14	9	0.8	100	14	HSE 25
20-32	3/4-1 1/4	14	7	3-3.5	24	14	9	0.8	100	15	HSE 32
25-40	1-1 5/8	14	7	3-3.5	26	14	9	0.8	50	18	HSE 40
32-50	1 1/4-2	14	7	3-3.5	26	14	9	0.8	50	18	HSE 50
40-60	1 5/8-2 3/8	14	7	3-3.5	26	14	9	1.0	25	20	HSE 60
50-70	2-2 3/4	14	7	3-3.5	26	14	9	1.0	25	21	HSE 70
60-80	2 3/8-3 1/8	14	7	3-3.5	26	14	9	1.0	25	23	HSE 80
70-90	2 3/4-3 1/2	14	7	3-3.5	26	14	9	1.0	25	25	HSE 90
80-100	3 1/8-4	14	7	3-3.5	26	14	9	1.0	10	28	HSE 100





Water Application



Quick Connect Couplings and Spray Nozzles



Wand Nozzle



Claw Couplings and Spray Nozzles



Claw Couplings for Drinking Water Applications



Claw Couplings for Strict Hygiene Requirements



Accessories






Water®
Profi
by **LUDECKE**

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	Wand Nozzle
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A Superior Product Range for Water Supply



The WaterProfi by **LUDECKE**® series offers high-end and durable fittings for various water applications.

Whether for private or commercial gardening, landscaping, agriculture, food industry, for cleaning or supply services at industrial workplaces or for drinking water applications – we provide the right product for any need.

All parts are compatible with standard plug profiles and coupling systems and can be combined as desired.

Advantages:

- High-end and extremely robust materials
- Absolutely leakage-proof and durable
- Simple and intuitive to use
- Different sizes, connection and valve types
- Compatible with standard plug profiles and coupling systems

WaterProfi®
by **LUDECKE**

Broad Range

The WaterProfi by **LUDECKE**® water fittings are available in different sizes and versions.

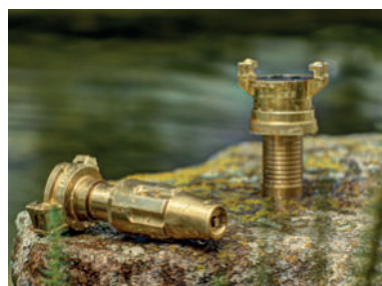
NEW!

To further improve handling, the quick connect couplings have been thoroughly revised and optimised.

With regards to claw couplings, we offer the classic WaterProfi version as well as couplings for drinking water applications and strict hygiene requirements.

In addition to quick connect and claw couplings, the **LUDECKE** water range includes a technically sophisticated wand nozzle. It ensures simple and professional watering of large areas and guarantees enormous flexibility thanks to its modular design.

Specially adapted accessories complete our range.



Materials

Brass (Plain/ Nickel-Plated)

Most of the **LUDECKE** water fittings consist of brass MS 58 (machining brass). It is a very sturdy material which guarantees high durability and is perfectly suited for galvanization (nickel, chrome).

Chromium Steel (Similar to Stainless Steel 1.4401)

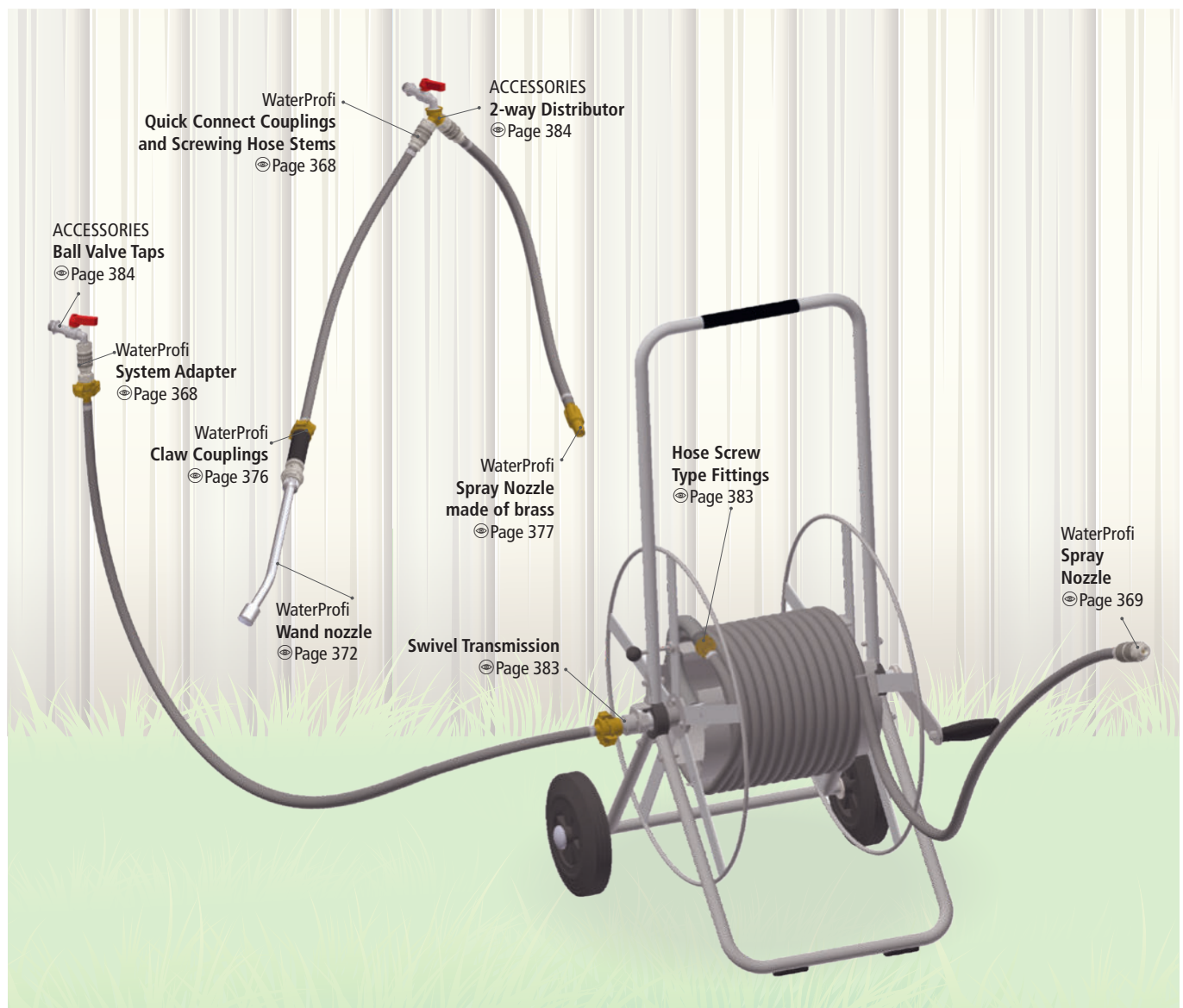
Chrome steel/ stainless steel is recommended for applications with specific hygiene regulations. This material has a special degree of purity and is suitable for the production of long-lasting and low-maintenance products.

Seals

Depending on the requirement **LUDECKE** offers various types of sealings made of NBR, FKM and EPDM.

Maximum Flexibility with Perfectly Matching Components

The WaterProfi by **LUDECKE**® range allows to set up a customised and flexible water system for various applications and can be easily extended. We are happy to help you find a tailored solution.



Overview of Fittings for Water Application

**Water®
Profi**
by **LUDECKE**

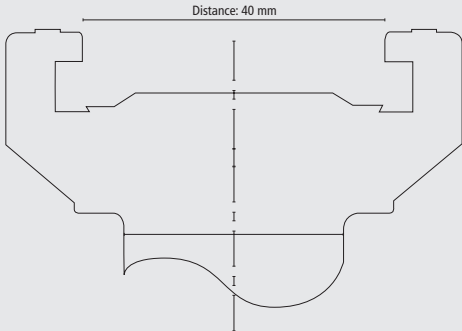
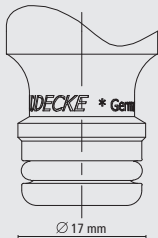
NEW!

**WPN
DN 9**

**Water®
Profi**
by **LUDECKE**

Claw Couplings

Plug Profile
(original size)



Materials:	
Body:	
Sleeve:	
Valve body:	
Valve:	
Springs:	
Balls:	
Seals:	
Plug:	
Max. Working Pressure:	
Temperature:	
Thread types:	
Type of valve:	
Operation:	
Miscellaneous:	
Page:	

MS 58 nickel-plated
MS 58 nickel-plated
MS 58 nickel-plated
MS 58 nickel-plated
Spring Steel 1.4310
Stainless Steel 1.4034
NBR/ HNBR
MS 58 nickel-plated
PN 16 bar
up to +95°C
ISO 228
single/ straight-through
One-Hand
-
368

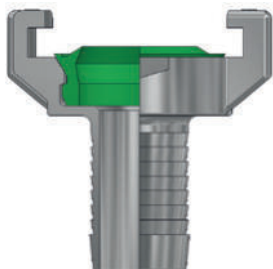
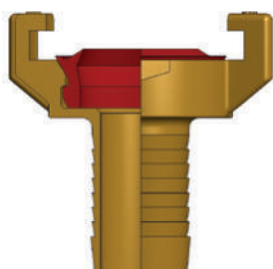
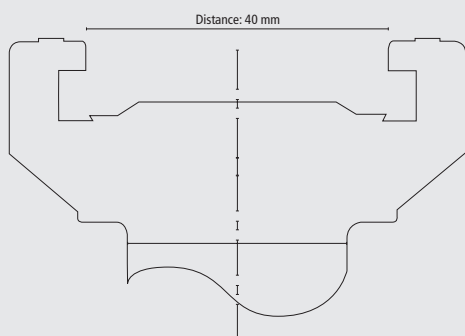
Brass CW617N
-
-
-
-
EPDM
-
PN 25 bar
up to +95°C
ISO 228
straight-through
One-Hand
-
376

Claw Couplings for Drinking Water Applications

Claw Couplings for Strict Hygiene Requirements

Swivel Transmissions

Hose Screw Type Fittings



Brass CW617N
-
-
-
-
-
NBR
-
PN 40 bar
-5°C – +100°C
ISO 228
straight-through
Two-Hands
DIN 50930/6, DIN 17660, DVGW W270, KTW approval according to D2
379

Chromium Steel similar to Stainless Steel 1.4401
-
-
-
-
-
FKM
-
PN 40 bar
-5°C – +100°C
ISO 228
straight-through
Two-Hands
-
381

MS 58 nickel-plated
-
-
-
-
-
EPDM
-
PN 10 bar
up to +95°C
ISO 228
straight-through
Two-Hands
Connection straight/ 90°
383

MS 58 plain/ nickel-plated
-
-
-
-
-
EPDM
-
PN 10 bar
up to +95°C
ISO 228
straight-through
Two-Hands
-
383

Quick Connect Couplings and Spray Nozzles



The WaterProfi by **LUDECKE**® quick connect couplings are entirely made of nickel-plated brass. This makes them more robust and wear-resistant compared to similar plastic couplings.

NEW!

To guarantee enhanced usability, the quick connect couplings have been thoroughly optimised.

For example, the new compact version is now very light in weight. The ball shut-off further improves one-hand operation and greatly facilitates your job. The smooth surfaces avoid dirt from collecting and are easy to clean.

All quick connect couplings can be combined with the WaterProfi by **LUDECKE**® spray nozzle and wand nozzle.

Advantages:

- High-quality materials
- Robust, absolutely leakage-proof and durable
- Easy to couple
- Compact size and ergonomic sleeve outline
- Smooth surfaces to prevent dirt from collecting
- Wide pressure range and high flow rates
- Compatible with standard plug profiles
- Different sizes, connection and valves types

WaterProfi®
by **LUDECKE**

Excellent Quality for Trouble-Free Use

The quick connect couplings are ideally suited for water pipes in industrial applications, trades, gardening, landscaping or private households. Due to their one hand operation, they can be used especially in areas which require a quick and flexible way of working.



Connected in Seconds

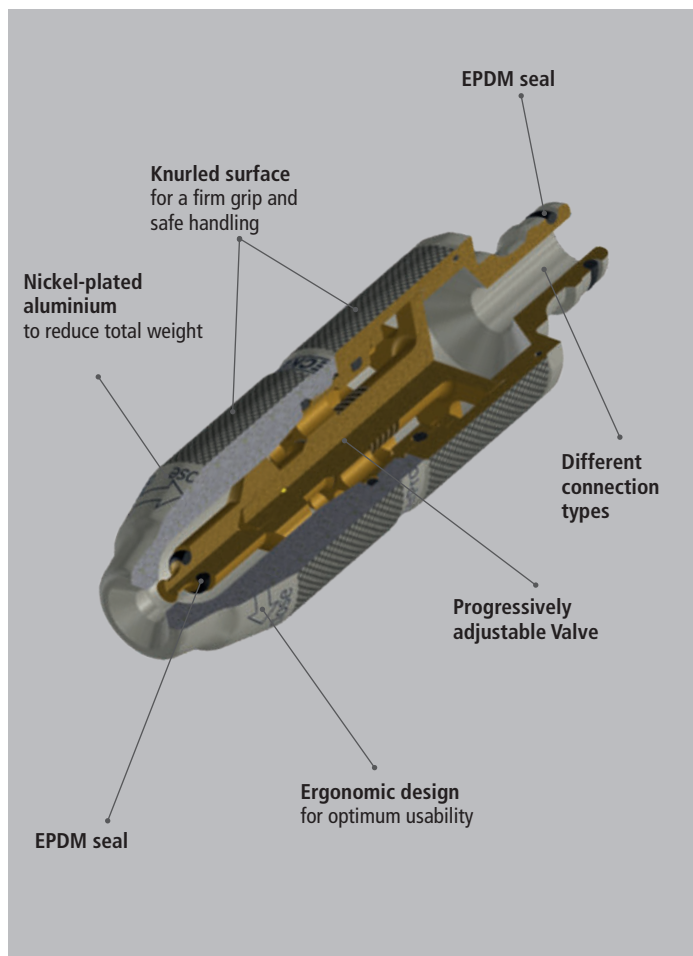
To connect, push the plug into the coupling. The locking sleeve automatically slides towards the plug and engages.



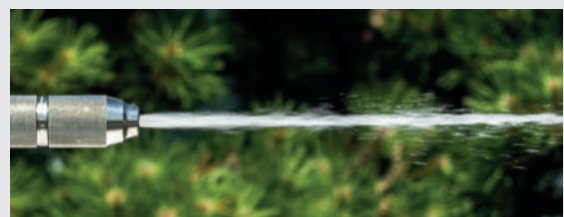
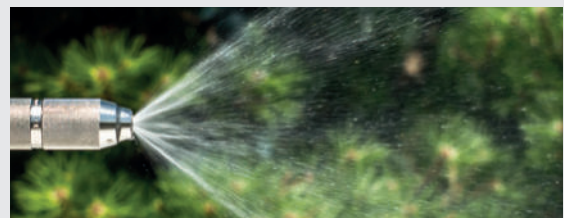
To disconnect, use one hand to hold the plug firmly. With your other hand push back the locking sleeve and pull the plug from the coupling. After disconnecting, the locking sleeve automatically slides back into its original position (when using non-valved couplings, shut off the media supply before disconnecting).

WaterProfi Spray Nozzle

The WaterProfi by **LUDECKE**® spray nozzle is characterised by its innovative design and sophisticated technical features. The front part of the nozzle is made of nickel-plated aluminium to minimize weight. All other parts are made of brass. At the nozzle orifice, an additional sealing ring prevents leakages. The knurled sleeve allows for a firm grip which enables safe handling even in wet conditions.



Easy Flow Control - from Mist to Full Water Jet



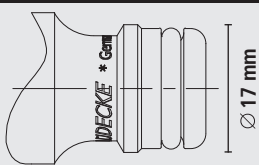
The water jet can be easily adjusted or turned off by turning the front part of the nozzle without increasing the nozzle length. Thanks to the perfect interaction between the valve spindle and the inner geometrics of nozzle and nozzle valve the WaterProfi Spray Nozzle enables a fine-tuned flow control from mist to full water jet.

Quick Connect Couplings

Series WPN made of Brass nickel-plated

DN 9

Plug profile (original size)



- One-hand quick connect couplings made of brass MS 58 nickel-plated
- Easy to couple, wide pressure range, leakage-proof, durable, robust, safe and reliable
- Compact size and ergonomic sleeve outline for perfect usability
- High flow rates due to optimised passage
- Spray nozzle: water flow can be turned off, flow control from mist to full water jet
- Compatible with standard plug profiles
- Optional with straight-through or shut-off valves
- **Universal one-hand quick connect coupling for water pipes in industrial applications, trades, landscaping, gardening or private household**

Materials:

- Body, sleeve, valve body, valve, plug: Brass MS 58 nickel-plated
- Balls: Stainless steel 1.4034
- Springs: Spring steel 1.4310
- Seals: NBR/ HNBR
- Claw: Brass CW617N
- Spray nozzle: Aluminium/ Brass MS 58 nickel-plated

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 16 bar	up to +95°C	9	ISO 228	One-hand	single/ straight-through	Water	5

Couplings with hose barb

Hose connection	L	D	L1	Weight	Type No. w/o valve	Type No. w. valve
Hose i.D. 13	64	28	22.5	111	WPN 13 T	WPN 13 TAB
Hose i.D. 16	64	28	22.5	115	WPN 16 T	WPN 16 TAB
Hose i.D. 19	64	28	22.5	128	WPN 19 T	WPN 19 TAB
Hose i.D. 25	64	28	22.5	135	WPN 25 T	WPN 25 TAB

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No. w/o valve	Type No. w. valve
G 1/2 f	53	24	28	10	125	WPN 12 I	WPN 12 IAB
G 3/4 f	53	30	28	10	131	WPN 34 I	WPN 34 IAB

Couplings with male thread

Thread connection	L	SW	D	L1	Weight	Type No. w/o valve	Type No. w. valve
G 1/2 m	58	24	28	10	130	WPN 12 A	WPN 12 AAB
G 3/4 m	58	30	28	10	130	WPN 34 A	WPN 34 AAB

Couplings with hose squeeze nut

Hose connection	L	D	L1	Weight	Type No. w/o valve	Type No. w. valve
Hose 13x3	58	28	18	140	WPN 13 TQ	WPN 13 TQAB
Hose 19x4	58	28	18	174	WPN 19 TQ	WPN 19 TQAB

Screwing hose stems (for combination with WaterProfi couplings with female thread)

Thread connection	Hose connect.	L	L1	L2	Passage	Weight	Type No.
G 3/4 m	Hose i.D. 13	31	22.5	9	10	30	WPN 13 GT
G 3/4 m	Hose i.D. 16	31	22.5	9	13	31	WPN 16 GT
G 3/4 m	Hose i.D. 19	31	22.5	9	15	40	WPN 19 GT
G 3/4 m	Hose i.D. 25	31	22.5	9	19	48	WPN 25 GT

System Adapter Claw Coupling - Quick Connect Coupling

Connection	L	B	Weight	Type No.
WaterProfi Claw Coupling - Coupling WPN DN 9	73	54.2	254	WPNK-WPA
WaterProfi Claw Coupling - Plug WPN DN 9	59.5	54.2	160	WPNS-WPA



Quick Connect Couplings

made of Brass nickel-plated **Series WPN**

DN 9

Plugs with hose barb

Hose connection	L	D	L1	L2	Weight	Type No.
Hose i.D. 13	49	24	22.5	24	51	WPN 13 S
Hose i.D. 16	49	24	22.5	24	44	WPN 16 S
Hose i.D. 19	49	24	22.5	24	51	WPN 19 S
Hose i.D. 25	49	27	22.5	24	69	WPN 25 S



Plugs with female thread (with female thread sealing ring)

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/2 f	38	27	10	24	70	WPN 12 NI
G 3/4 f	38	30	10	24	68	WPN 34 NI
G 1 f	38	36	10	24	77	WPN 10 NI



Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 1/2 m	40	24	10	24	55	WPN 12 NA
G 3/4 m	41	30	10.5	24	76	WPN 34 NA



Plugs with hose squeeze nut

Hose connection	L	SW	L1	L2	Weight	Type No.
Hose 13x3	48	19	12	24	103	WPN 13 SQ
Hose 19x4	51	19	12.5	24	121	WPN 19 SQ



System Adapter

Connection	L	D	L1	L2	Weight	Type No.
DN 9 - DN 9	52	24	24	24	70	WPNA



Spray Nozzle with plug-/hose connection/-male thread

Connection	L	D	L1	Passage	Weight	Type No.
Plug WaterProfi	118	33	24	6.5	308	WSD-S
Hose i.D. 13	126	33	32	6.5	302	WSD 13 T
Hose i.D. 16	126	33	32	6.5	303	WSD 16 T
Hose i.D. 19	126	33	32	6.5	312	WSD 19 T
Hose i.D. 25	126	33	32	6.5	328	WSD 25 T
G 1/2 m	106	33	12	6.5	297	WSD 12 A



**Water[®]
Profi**
by **LUDECKE**

Wand Nozzle



In nurseries, commercial landscaping or private gardens: in these areas, products are required which enable easy and thorough watering of beds and green areas. At the same time, working should be created as simple as possible.

This is what the WaterProfi by **LUDECKE**® wand nozzle offers: targeted and extensive watering with minimal effort and maximal comfort. Thanks to its modular design, the wand nozzle can easily be customised. For this purpose, different spray heads, tube lengths and connection types are available. The handle made of soft PVC neutralises temperature fluctuations making gloves unnecessary. Due to its comfortable surface material and ergonomic design, the wand nozzle is comfortable to hold even after long use.

Sophisticated dispensing system using slide valve technology

The highlight of the WaterProfi by **LUDECKE**® wand nozzle is the slide valve technology. This means the waterjet can be adjusted smoothly by simply sliding the sleeve on the handle. The sleeve remains at the set position and relieves your hand during continuous spraying.

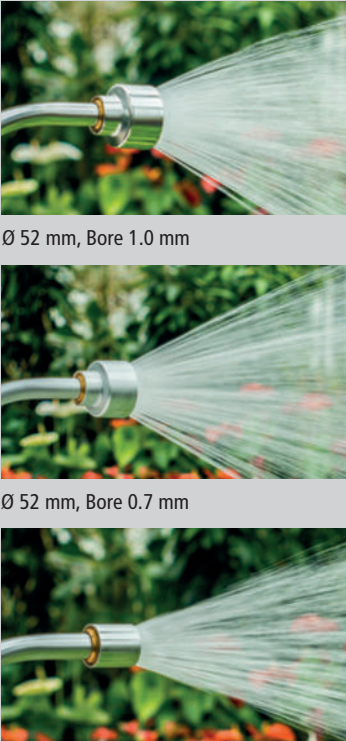


Convincing Performance

High-quality	Ergonomic	Flexible
<ul style="list-style-type: none"> • Robust and durable wand nozzle providing high range • Sophisticated technology of the handle (slide valve technology) 	<ul style="list-style-type: none"> • Handle made of soft PVC (pearl structure): The Wand Nozzle is comfortable to hold and neutralizes temperature fluctuations (when cold or hot water passes through) • Light weight – for extended and comfortable use 	<ul style="list-style-type: none"> • Interchangeable components • Connecting types compatible with standard plug profiles and coupling systems

High-Quality Components

Spray head in several sizes
(Ø 30/ Ø 52 mm)
and with different bores
(Ø 0.7/ Ø 1.0 mm)




Ø 52 mm, Bore 1.0 mm

Ø 52 mm, Bore 0.7 mm

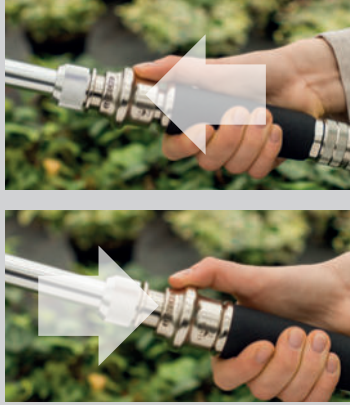
Ø 30 mm, Bore 1.0 mm

Registered Design



Solid extension tube
In three different lengths
(400, 600, 900 mm)


Slide valve technology (registered design): water volume can be smoothly adjusted



Different connection types
for great flexibility

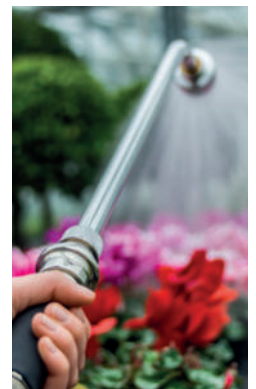
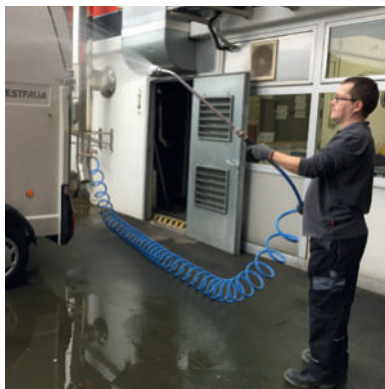
- Female Thread
- Claw Coupling
- Plug System WPN DN 9

Sieve in Handle
Dirt protection



Highly Versatile

The WaterProfi by **LUDECKE**® wand nozzle is highly versatile and adjusted to different needs.



Wand Nozzle



**Water®
Profi**
by **LUDECKE**

- Adjustable wand nozzle with one-hand operation and spray head up to 60 l flow rate
- Sophisticated dispensing system using slide valve technology
- Various spray heads, tube lengths and connectors
- Soft and comfortable handle
- Sieve in handle protects against dirt
- For commercial landscaping and private gardens, tree nurseries, etc.

Materials:

- Body: Brass MS 58 and aluminium galvanic nickel-plated
- Slide valve: Brass galvanic nickel-plated
- Casting tube, spray head: Aluminium
- Seals: FKM
- Handle: Soft PVC
- Plug: Brass MS 58 nickel-plated
- Claw coupling: Brass CW617N

Max. Working Pressure	Temperature	Thread	Media	
PN 16 bar	up to +95°C	ISO 228	Water	1

Wand Nozzle with female thread G 3/4" - ISO 228

Thread connection	L	D	L1	Ø Bores	Type No.
G 3/4 f	600	30	400	1.0	GG 403010 34I
G 3/4 f	800	30	600	1.0	GG 603010 34I
G 3/4 f	1100	30	900	1.0	GG 903010 34I
Thread connection	L	D	L1	Ø Bores	Type No.
G 3/4 f	600	52	400	0.7	GG 405207 34I
G 3/4 f	800	52	600	0.7	GG 605207 34I
G 3/4 f	1100	52	900	0.7	GG 905207 34I
Thread connection	L	D	L1	Ø Bores	Type No.
G 3/4 f	600	52	400	1.0	GG 405210 34I
G 3/4 f	800	52	600	1.0	GG 605210 34I
G 3/4 f	1100	52	900	1.0	GG 905210 34I

Slide valve can be regreased if necessary

Wand Nozzle with Claw Coupling

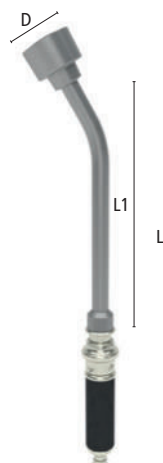
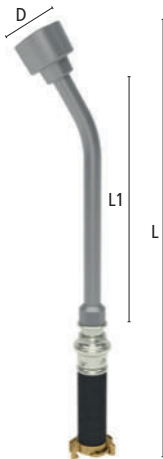
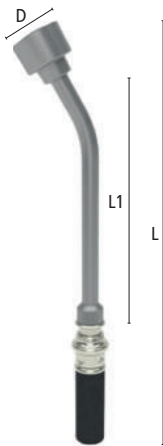
Connection	L	D	L1	Ø Bores	Type No.
Claw Coupling	600	30	400	1.0	GG 403010 GKA
Claw Coupling	800	30	600	1.0	GG 603010 GKA
Claw Coupling	1100	30	900	1.0	GG 903010 GKA
Connection	L	D	L1	Ø Bores	Type No.
Claw Coupling	600	52	400	0.7	GG 405207 GKA
Claw Coupling	800	52	600	0.7	GG 605207 GKA
Claw Coupling	1100	52	900	0.7	GG 905207 GKA
Connection	L	D	L1	Ø Bores	Type No.
Claw Coupling	600	52	400	1.0	GG 405210 GKA
Claw Coupling	800	52	600	1.0	GG 605210 GKA
Claw Coupling	1100	52	900	1.0	GG 905210 GKA

Slide valve can be regreased if necessary

Wand Nozzle with Plug WPN DN 9

Connection	L	D	L1	Ø Bores	Type No.
Plug WPN DN 9	600	30	400	1.0	GG 403010 WS
Plug WPN DN 9	800	30	600	1.0	GG 603010 WS
Plug WPN DN 9	1100	30	900	1.0	GG 903010 WS
Connection	L	D	L1	Ø Bores	Type No.
Plug WPN DN 9	600	52	400	0.7	GG 405207 WS
Plug WPN DN 9	800	52	600	0.7	GG 605207 WS
Plug WPN DN 9	1100	52	900	0.7	GG 905207 WS
Connection	L	D	L1	Ø Bores	Type No.
Plug WPN DN 9	600	52	400	1.0	GG 405210 WS
Plug WPN DN 9	800	52	600	1.0	GG 605210 WS
Plug WPN DN 9	1100	52	900	1.0	GG 905210 WS

Slide valve can be regreased if necessary





**Water[®]
Profi**
by **LUDECKE**

Handle with slide valve for Wand Nozzle

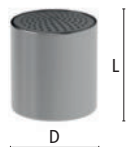
Thread connection	L	D	L1	L2		Weight	Type No.
G 3/4 f - G 3/4 m	182	40	8	22	1	348	GG HS

Slide valve can be regreased if necessary



Spray Head - small version

Thread connection	L	D	Ø Bores		Weight	Type No.
G 3/4 f	35	30	1.0	5	33	GGK 3010



Spray Head - large version

Thread connection	L	D	Ø Bores		Weight	Type No.
G 3/4 f	51	52	0.7	5	55	GGK 5207
G 3/4 f	51	52	1.0	5	61	GGK 5210



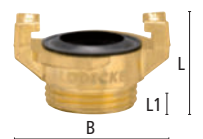
Casting Tube

Thread connection	L		Weight	Type No.
G 3/4 m - G 3/4 f	400	1	75	GGR 400-34
G 3/4 m - G 3/4 f	600	1	120	GGR 600-34
G 3/4 m - G 3/4 f	900	1	166	GGR 900-34



WaterProfi Claw Coupling with male thread

Thread connection	L	B	L1	Passage		Weight	Type No.
G 3/4 m	32	53.5	10.5	20	10	100	GKA 34



WaterProfi Plug with male thread (Series WPN DN 9)

Thread connection	L	SW	L1	L2		Weight	Type No.
G 3/4 m	41	30	10.5	24	5	76	WPN 34 NA



Screwing hose stems for hose connection

Thread connect.	Hose connect.	L	L1	L2	Passage		Weight	Type No.
G 3/4 m	Hose i.D. 13	31	22.5	9	10	5	30	WPN 13 GT
G 3/4 m	Hose i.D. 16	31	22.5	9	13	5	31	WPN 16 GT
G 3/4 m	Hose i.D. 19	31	22.5	9	15	5	40	WPN 19 GT
G 3/4 m	Hose i.D. 25	31	22.5	9	19	5	48	WPN 25 GT



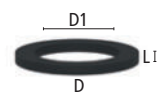
Sieve

Resistance	L	D	D1	Material	Temp°C	Media	Colour	Shore A		Weight	Type No.
Water	9	25	16	NBR	up to +95	Water	black	70°	10	4	GG-SIEB 34



O-ring for female thread

Resist.	Con.	L	D	D1	Material	Temp°C	Media	Colour	Shore A		Weight	Type No.
Water	3/4 f	2	26	18	EPDM	up to +95	Water	black	65°	100	1	GDRG 34



Claw Couplings



The WaterProfi by **LUDECKE**® claw couplings are entirely made of brass making them very durable and wear-resistant.

Additionally, the couplings are extremely weather and temperature resistant and guarantee a particularly secure grip. WaterProfi claw couplings are compatible with all common water claw couplings with a claw distance of 40 mm.

The couplings can be easily combined with the matching classic WaterProfi spray nozzle and the wand nozzle.

Advantages:

- Robust, safe and reliable
- Easy to couple
- High pressure and vacuum range, reduced tilting moment
- Maximum passage through perfect wall thickness
- Ergonomically formed claws, safety notches against accidental loosening
- Extra protection due to MODY-safety-screwing-claw coupling
- Compatible with standard coupling systems
- Different sizes and connection types

WaterProfi
by **LUDECKE**

Top Quality for Trouble-Free Working

The WaterProfi by **LUDECKE**® Claw Couplings are especially suitable for applications with high water pressure or for rough working conditions. To ensure a perfect grip, we recommend using the MODY-safety-screwing-claw coupling. It has a locking nut which can be manually tightened and prevents the coupling halves from loosening.



Connected in Seconds

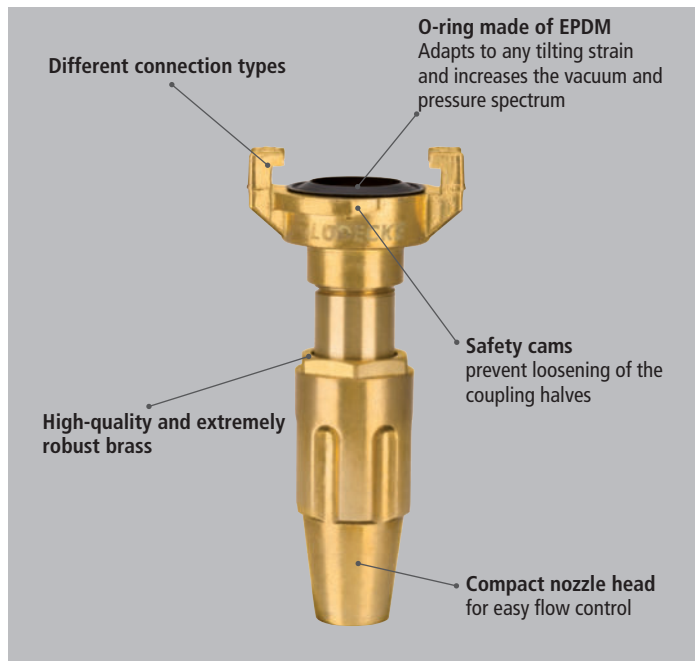
Push the two couplings together at 180° degrees opposite to each other until the seal faces touch. Afterwards, rotate one coupling half as far as it will go into the opposite direction of the other - the couplings lock into place.



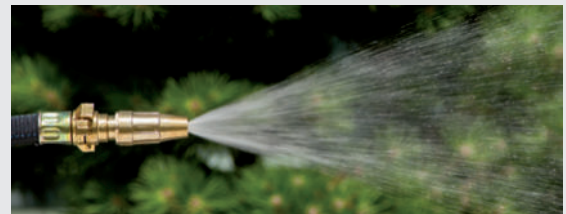
To disconnect, push the coupling and the counterpart together in axial direction. Afterwards, turn one coupling half as far as possible in the opposite direction as you would do when connecting and remove it from the counterpart.

The Classic WaterProfi Spray Nozzle

The WaterProfi series offers further premium spray nozzles. They are conically metal sealed and – depending on the application and requirements – available with hose connection or claw coupling.



Easy Flow Control - from Mist to Full Water Jet



By twisting the nozzle head, the spray nozzle allows for perfect flow control with smooth transition from mist to full water jet.



Claw Couplings

made of Brass for Water

- Claw Couplings made of forged brass CW617N
- Easy to couple, high pressure and vacuum range, reduced tilting moment
- Maximum passage through perfect wall thickness as well as safe and hose-friendly hose barbs
- Ergonomically formed claws, safety notches against accidental loosening
- High-performance O-ring made of EPDM with perfect elasticity and resistance
- Compatible with all common water claw couplings with a claw distance of 40 mm
- O-ring compatible with most common sealing rings
- Spray Nozzle: can be turned off, flow control from mist to full water jet
- [Universal coupling for water pipes in industrial applications, construction, trades, agriculture or private household](#)

Materials:

- Claw, connector: Brass CW617N
- Seals: EPDM

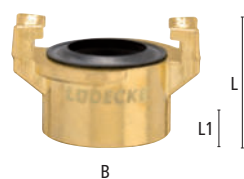
Max. Working Pressure	Temperature	Thread	Claw Distance	Media	
PN 25 bar	up to +95°C	ISO 228	40 mm	Water	10



Claw Couplings with hose barb

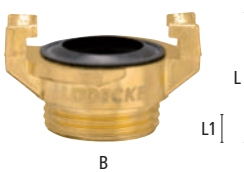
Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 10	50	53.5	28	7.5	93	GSK 10
Hose i.D. 13	50	53.5	28	10.5	94	GSK 13
Hose i.D. 16	54	53.5	32	13.5	102	GSK 16
Hose i.D. 19	54	53.5	32	16.5	102	GSK 19
Hose i.D. 25	58	53.5	36	21.5	125	GSK 25
Hose i.D. 32	70	53.5	49	23	176	GSK 32
Hose i.D. 38	73	53.5	49	23	209	GSK 38

For hose clips type HS (© page 387), type ZOS (© page 386), or crimping ferrules type LPH (© page 389)



Claw Couplings with female thread and thread sealing ring

Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/4 f	31.5	53.5	7.5	8	96	GKI 14
G 3/8 f	31.5	53.5	7.5	11	95	GKI 38
G 1/2 f	31.5	53.5	7.5	14	97	GKI 12
G 3/4 f	32.5	53.5	8	19	102	GKI 34
G 1 f	33	53.5	9	23	115	GKI 10
G 1 1/4 f	37	53.5	11	23	143	GKI 54
G 1 1/2 f	38	53.5	11.5	23	177	GKI 15



Claw Couplings with male thread

Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/4 m	32	53.5	10	8	89	GKA 14
G 3/8 m	32	53.5	9.5	11.5	97	GKA 38
G 1/2 m	32	53.5	10	15	96	GKA 12
G 3/4 m	32	53.5	10.5	20	100	GKA 34
G 1 m	32	53.5	10	23	104	GKA 10
G 1 1/4 m	36	53.5	15	23	132	GKA 54
G 1 1/2 m	36	53.5	15	23	163	GKA 15

Male thread sealing with PVC washer type HPD (© page 212)




Claw Coupling with plain end

Version	L	B	Weight	Type No.
without chain	37	53.5	103	GKO



Original Rubber Ring for Water Claw Couplings, LÜDECKE WaterProfi and all Standard Water Claw Couplings (not for GEKA plus)


Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A		Weight	Type No.
Water	12	35	23.5	EPDM	up to +95	Water	black	70°	100	6	GKOR

Water®
Profi
by LÜDECKE

Claw Couplings and Spray Nozzles

made of Brass for Water

MODY-Safety-Screwing-Claw Couplings with hose barb

Hose connection	L	B	L1	Passage		Weight	Type No.
Hose i.D. 13	77	53.5	42	10	5	190	GSSG 13
Hose i.D. 19	82	53.5	42	16.5	5	215	GSSG 19
Hose i.D. 25	86	53.5	42	20	5	270	GSSG 25

For hose clips type HS (☹ page 387), type ZOS (☹ page 386), or crimping ferrules type LPH (☹ page 389)

Thread types on request (GSSGA 34 in stock)



Original Rubber Ring with support ring for MODY-Safety-Screwing-Claw Couplings made of brass

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	Weight	Type No.
Water	7	33.5	21.5	NBR/ Brass	up to +95	Water	black	65°	6	GSGOR-Set



Classic WaterProfi Spray Nozzles made of brass – conical sealing brass to brass (PN 10 bar)

Hose connection	L	Ø Nozzle bore	Weight	Type No.
Hose i.D. 13	100	5	115	SDT 13
Hose i.D. 19	112	6.5	245	SDT 19
Hose i.D. 25	125	7	370	SDT 25



Connection	L	Ø Nozzle bore	Weight	Type No.
Claw Coupling	98	5	220	SDK 12
Claw Coupling	113	6.5	310	SDK 34
Claw Coupling	121	7	410	SDK 10



System-Adapter Claw Coupling - Quick Connect Coupling

Connection	L	B	Weight	Type No.
WaterProfi Claw Coupling - Coupling WPN DN 9	73	54.2	254	WPNK-WPA
WaterProfi Claw Coupling - Plug WPN DN 9	59.5	54.2	160	WPNS-WPA



WaterProfi
by **LUDECKE**

GEKA plus Claw Couplings for Drinking Water Applications



The GEKA plus claw couplings made of forged brass are the perfect all-rounders for drinking water applications.

These products are approved according to DIN 50930/6 and DIN 17660. Moreover, these claw couplings have a patented high-performance rubber ring made of NBR with excellent elastic properties as well as a KTW approval according to D2 and long-term test result DVGW W270.

DVGW
tested and
approved

Advantages:

- Easy to couple
- High pressure and vacuum range, reduced tilting moment
- Maximum passage through perfect wall thickness
- Safe and hose-friendly hose barbs
- Ergonomically formed claws, safety notches against accidental loosening
- Different sizes and connection types

Easy Handling - Safe and Firm Grip



GEKA plus claw couplings are connected the same way as WaterProfi by **LUDECKE**® claw couplings. Push the two couplings together at 180° degrees opposite to each other until the seal faces touch. Afterwards, rotate one coupling half as far as it will go into the opposite direction of the other - the couplings lock into place.

GEKA plus Claw Couplings

made of Brass for Drinking Water Applications

- Claw Couplings made of forged brass CW617N, DIN 50930/6 and DIN 17660
- Easy to couple, high pressure and vacuum range, reduced tilting moment
- Maximum passage through perfect wall thickness as well as safe and hose-friendly hose barbs
- Ergonomically formed claws, safety notches against accidental loosening
- Patented high-performance rubber ring made of NBR with excellent elastic properties
- DVGW-Test-Certified, Reg. Nr. DW-0310BT0218
- According to DIN 50930/6, DIN 17660, DVGW-W270, KTW approved according to D2
- [Universal coupling for drinking water pipes](#)

Materials:

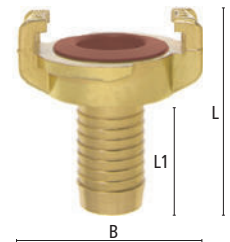
- Claw, connector: Brass CW617N
- Seals: NBR

Max. Working Pressure	Temperature	Thread	Claw distance	Media	☞
PN 40 bar	-5°C – +100°C	ISO 228	40 mm	Water	10

KTW Claw Couplings GEKA plus with hose barb

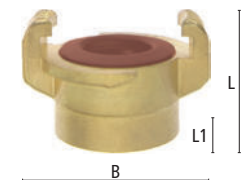
Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	49.5	53.5	28	10	71	GSK 13-KTW
Hose i.D. 19	53.5	53.5	32	17	100	GSK 19-KTW
Hose i.D. 25	57.5	53.5	37	21.5	119	GSK 25-KTW

For hose clips type HS (☞ page 387), type ZOS (☞ page 386), or crimping ferrules type LPH (☞ page 389)



KTW Claw Couplings GEKA plus with female thread and thread sealing ring

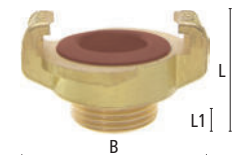
Thread connection	L	B	L1	Passage	Weight	Type No.
G 3/8 f	31	53.5	9.5	11	94	GKI 38-KTW
G 1/2 f	31	53.5	9.5	14	94	GKI 12-KTW
G 3/4 f	32	53.5	10.5	19	90	GKI 34-KTW
G 1 f	33	53.5	11	23	100	GKI 10-KTW



KTW Claw Couplings GEKA plus with male thread

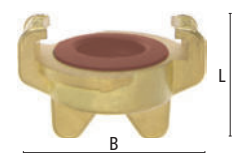
Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/2 m	31	53.5	8	15	85	GKA 12-KTW
G 3/4 m	32	53.5	8	20	91	GKA 34-KTW
G 1 m	31	53.5	8	23	90	GKA 10-KTW

Male thread sealing with PVC sealing ring type HPD (☞ page 212)



KTW Claw Coupling GEKA plus with plain end

Version	L	B	Weight	Type No.
without chain	35	53.5	90	GKO-KTW



Original Rubber Ring for GEKA plus Couplings KTW approved for drinking water according to directive DIN 50930/6

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	☞	Weight	Type No.
Water	10.8	33.5	20.5	NBR	-30 – +90	Water	brown	65°	10	5	GKOR-KTW



Original Rubber Ring for GEKA plus-Couplings (not for WaterProfi)

Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	☞	Weight	Type No.
Water	10.8	33.5	20.5	NBR	-30 – +90	Water	black	65°	100	4	GKOR-N



DVGW
tested and
approved

DVGW W270/
KTW

GEKA plus Claw Couplings for Strict Hygiene Requirements



GEKA plus Claw Couplings made of chromium steel are the universal couplings for applications in the chemical industry, for water, lye and different aggressive media as well as strict hygiene requirements.

The products have a patented high-performance sealing ring made of FKM with excellent elasticity properties. Depending on the application, we recommend hose clips or clamps for fixation.

Advantages:

- Easy to couple, high pressure and vacuum range, reduced tilting moment
- Maximum passage through perfect wall thickness
- Safe and hose-friendly hose barbs
- Ergonomically formed claws
- Safety notches against accidental loosening
- Different sizes and connection types

Easy Handling – Safe and Firm Grip



GEKA plus claw couplings are connected the same way as WaterProfi by **LUDECKE**® claw couplings. Push the two couplings together at 180° degrees opposite to each other until the seal faces touch. Afterwards, rotate one coupling half as far as it will go into the opposite direction of the other - the couplings lock into place.

GEKA plus Claw Couplings

made of Chromium Steel for Applications with Strict Hygiene Requirements

- High-quality couplings made of chromium steel similar to Stainless Steel 1.4401
- Easy to couple, high pressure and vacuum range, reduced tilting moment
- Maximum passage through perfect wall thickness as well as safe and hose-friendly hose barbs
- Ergonomically formed claws, safety notches against accidental loosening
- Patented high-performance rubber ring made of FKM (DIN ISO 1629) with excellent elastic properties
- [Universal coupling for applications in the chemical industry for water, lye or aggressive media](#)

strict hygiene
requirements

Materials:

- Claw, connector: Chromium steel similar to Stainless steel 1.4401
- Seals: FKM

Max. Working Pressure	Temperature	Thread	Claw distance	Media	☞
PN 40 bar	-5°C – +100°C	ISO 228	40 mm	Water / Lye	5

Claw Couplings GEKA plus with hose barb

Hose connection	L	B	L1	Passage	Weight	Type No.
Hose i.D. 13	50	53.5	28	10	89	GSK 13 SS
Hose i.D. 19	52.5	53.5	32	17	92	GSK 19 SS
Hose i.D. 25	57.5	53.5	37	21.5	117	GSK 25 SS

For hose clips type SLE (☞ page 386), type HSE (☞ page 388)

Claw Couplings GEKA plus with female thread and thread sealing ring

Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/2 f	30.5	53.5	9.5	14	82	GKI 12 SS
G 3/4 f	31.5	53.5	10.5	19	88	GKI 34 SS
G 1 f	32.5	53.5	11	23	100	GKI 10 SS

Claw Couplings GEKA plus with male thread

Thread connection	L	B	L1	Passage	Weight	Type No.
G 1/2 m	30.5	53.5	8	15	80	GKA 12 SS
G 3/4 m	33	53.5	8	20	91	GKA 34 SS
G 1 m	31	53.5	8	23	86	GKA 10 SS

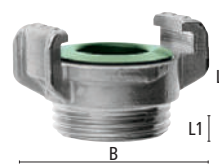
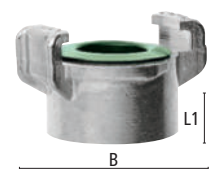
Male thread sealing with PVC sealing ring type HPD (☞ page 212)

Claw Coupling GEKA plus with plain end

Version	L	B	Weight	Type No.
without chain	36.5	53.5	85	GKO SS

Original Rubber Ring for GEKA plus Claw Couplings made of chromium steel

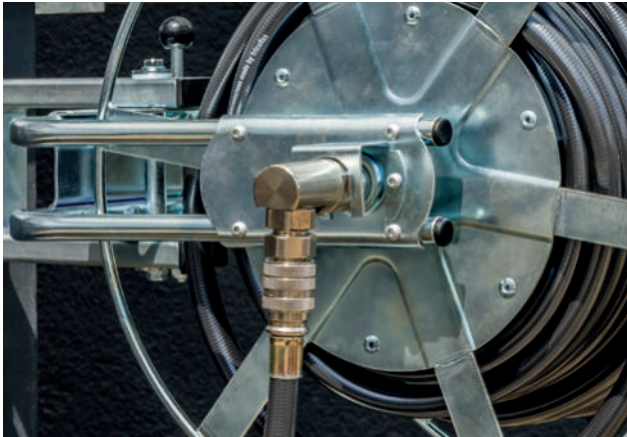
Resistance	L	D	D1	Material	Temp.°C	Media	Colour	Shore A	☞	Weight	Type No.
Water	10.8	33.5	20.5	FKM	-20 – +160	Water	green	65°	10	5	GKVR-N



Accessories

Apart from couplings and spray nozzles, **LUDECKE** offers a broad range of accessories.

Swivel Transmissions



LUDECKE swivel transmissions are designed for hose or tubing applications in components which have to withstand high stress caused by rotations at the connections (e.g. hose reels or wall hose reels).

- Avoids any kind of kinking and abrasion to the hose and hose connection
- Media is smoothly transported to drop-off-point
- For applications with unwinding which experience heavy strains due to vibrations, twisting and sideways movements at connections

Hose Screw Type Fittings



WaterProfi by **LUDECKE**® hose screw type fittings are used as quick-release connections for hoses or tools. They are an alternative to common coupling systems.

We recommend this product especially to connect hose reels or wall hose reels to hoses.

- Solid connection between hose and tool
- Robust, safe, leakage-proof and durable
- Available in plain brass and nickel-plated brass

Additional Accessories



- Fittings
- Ball valves taps
- Return valves and check foot valves with strainer
- Thread stems with male thread and hose squeeze nut ferrule
- Hose clamps, hose clips made of steel and stainless steel, ferrules for low pressure hose lines, hand-operated assembly machine

Swivel Transmissions

made of Brass for Water

- Swivel Transmissions made of brass MS 58 nickel-plated
- High resistant swivel joint, with enhanced flow rates
- For pneumatic and fluid applications with rotations and heavy strains due to vibrations, twisting and sideways movements

Materials:

- Swivel transmission: Brass MS 58 nickel-plated
- Seals: EPDM

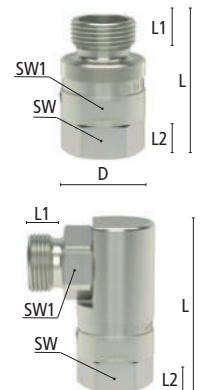
Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	+95°C	ISO 228	Water	1

Swivel transmission straight

Thread connection	L	SW	D	L1	L2	SW1	Passage	Version	Weight	Type No.
G 3/4 m - G 3/4 f	54	30	34	15.5	8	30	17	straight	180	DV 34 IA
G 1 m - G 1 f	60	41	45	15.5	14	41	25.5	straight	350	DV 10 IA

Swivel transmission 90°

Thread connection	L	SW	B	L1	L2	SW1	Passage	Version	Weight	Type No.
G 3/4 m - G 3/4 f	74	30	55	15.5	8	30	17	90°	420	DV 3490 IA
G 1 m - G 1 f	85	41	64	15.5	16	36	25	90°	698	DV 1090 IA



Hose Screw Type Fittings

made of Brass for Water

- Hose Screw Type Fittings made of brass MS 58 plain or nickel-plated
- Quick release connection for hoses or tools
- Robust, safe, leakage-proof and durable

Materials:

- Hose screw type fitting: Brass MS 58 plain/ nickel-plated
- Seals: EPDM

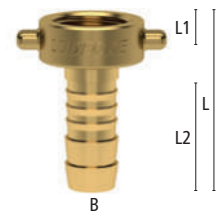
Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	up to +95°C	ISO 228	Water	10

Hose screw type fitting made of brass plain, female thread and union nut

Thread connection	Hose connection	L	B	L1	L2	Passage	Weight	Type No.
G 1/2 f	Hose i.D. 13	46	40	9	30	11	55	12/13 M
G 3/4 f	Hose i.D. 13	46.5	45	9.5	30	11	66	34/13 M
G 3/4 f	Hose i.D. 16	46.5	45	9.5	30	13	72	34/16 M
G 3/4 f	Hose i.D. 19	46.5	45	9.5	30	16	76	34/19 M
G 1 f	Hose i.D. 19	48	60	11	30	16	127	10/19 M
G 1 f	Hose i.D. 25	48	60	11	30	20.5	130	10/25 M

Hose screw type fitting made of brass nickel-plated, female thread and union nut

Thread connection	Hose connection	L	B	L1	L2	Passage	Weight	Type No.
G 1/2 f	Hose i.D. 13	46	40	9	30	11	55	12/13 MN
G 3/4 f	Hose i.D. 13	46.5	45	9.5	30	11	66	34/13 MN
G 3/4 f	Hose i.D. 16	46.5	45	9.5	30	13	72	34/16 MN
G 3/4 f	Hose i.D. 19	46.5	45	9.5	30	16	76	34/19 MN
G 1 f	Hose i.D. 19	48	60	11	30	16	127	10/19 MN
G 1 f	Hose i.D. 25	48	60	11	30	20.5	130	10/25 MN



Fittings and Ball Valve Taps

made of Brass

- Distributors, T-Connectors, elbow-connectors and ball valve taps
- Different sizes for all kinds of application
- Robust, solid and reliable
- Maximum passage
- For water supply in industry, trades, agriculture and private households

Materials:

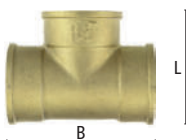
- Y-Distributor, T-Connector, Elbow-Connector: Brass MS 58 plain
- Tap-housing: Brass MS 58 nickel-plated
- Handle: Aluminium red
- Balls: hard chromium plated

Max. Working Pressure	Thread	Media	
PN 10 bar	ISO 228	Water	5



2-way Distributor

Inlet	Outlet	Passage	Weight	Type No.
G 3/4 f	2 x G 3/4 m	15	85	DWS 34 Y



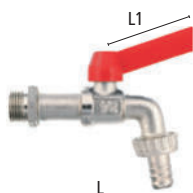
T-Connector with female thread

Thread connection	L	B	Weight	Type No.
3 x G 1/2 f	51	39,5	86	TSM 12
3 x G 3/4 f	59	45,5	160	TSM 34
3 x G 1 f	75	54	250	TSM 10



Elbow-Connector with female thread

Thread connection	L	Weight	Type No.
2 x G 1/2 f	25	83	WSM 12
2 x G 3/4 f	30	115	WSM 34
2 x G 1 f	33,5	204	WSM 10



Ball Valve Taps, brass nickel-plated with assembled hose screwing, handle aluminium red, ball hard chromium plated

Inlet	Outlet	Hose connect.	L	L1	Weight	Type No.
G 1/2 m	G 3/4 m	Hose i.D. 13	105	55	210	WKH 12
G 3/4 m	G 1 m	Hose i.D. 19	120	55	285	WKH 34

Return Valves and Check Foot Valves with Strainer

made of Brass

- Return valves shut off water flows in one direction. Check foot valves are return valves assembled with a strainer.
- Avoid draining of the suction line, after pump has been switched off
- Perfectly tight hold even with very low pressure through Nitril rubber sealing
- Hostaform wedge with double central slide

Materials:

- Body: Brass MS 58 plain
- Valve: Nylon
- Springs: Stainless steel
- Seals: Nitril

Max. Working Pressure	Temperature	Opening pressure	Thread	Media	
PN 16 bar	up to +100°C	approx 0.02 bar	ISO 228	Water	1

Return Valves with female thread

Thread connection	L	D	Weight	Type No.
G 1/4 f	45	28.5	105	RSV 14
G 3/8 f	45	28.5	93	RSV 38
G 1/2 f	47.5	30	100	RSV 12
G 3/4 f	53	37	159	RSV 34
G 1 f	59	44.5	239	RSV 10
G 1 1/4 f	66	56	348	RSV 54*
G 1 1/2 f	71	62.5	450	RSV 15*
G 2 f	80	78.5	730	RSV 20*



Check Foot Valves with strainer, outlet with female thread

Thread connection	L	D	Weight	Type No.
G 3/8 f	89	28.5	90	FVMF 38
G 1/2 f	90	29.5	110	FVMF 12
G 3/4 f	101	37	165	FVMF 34
G 1 f	115	44.5	245	FVMF 10
G 1 1/4 f	126	56	390	FVMF 54*
G 1 1/2 f	140	63	500	FVMF 15*
G 2 f	165	78	800	FVMF 20*

* Max. Working Pressure: 10 bar



Thread Stems with Male Thread and Hose Squeeze Nut Ferrule

made of Brass for Water for Perfect Hose Assembly

- Easy hose assembly with thread ferrule, multiple use and detachable
- Hose assembly without dead space for optimised safety and hygiene standards
- No dirt accumulation between hose and hose barb
- According to DIN EN 14 424
- Please note correct hose wall dimensions

Materials:

- Screw connection: Brass MS 58 plain

Max. Working Pressure	Temperature	Thread	Media	
PN 25 bar	up to +95°C	ISO 228	Water	10

Thread Stems with Male Thread and Hose Squeeze Nut Ferrule

Hose connect.	Thread connection	L	SW	L1	SW1	Passage	Weight	Type No.
13x3 - 13x3.8	G 1/2 m	52	22	12	24	10	92	GSA 12-13
19x3.8 - 19x4.2	G 3/4 m	53.5	27	13	32	17	143	GSA 34-19
25x4.4 - 25x5	G 1 m	58.5	36	14	41	22	252	GSA 10-25

Assembly instructions for thread ferrules (www.luedecke.com)



Hose Clamps

made of Stainless Steel

- Robust clamps made of stainless steel 1.4401
- Robust, easy and secure hose assembly for various fittings and applications

Materials

- Clamps, spacers: Stainless Steel 1.4401
- Screws: Stainless Steel A4-70

Max. Working Pressure	Norm
PN 16 bar	DIN 20039 A

Hose Clamps DIN 20039 A made of stainless steel 1.4401, two parts with loose spacers

Hose-o.D./							
Version	Range	L	B	Screw size		Weight	Type No.
Hose i.D. 13	18-26	63	18	M 8x30	5	140	SLE 13
Hose i.D. 19	26-33	71	18	M 8x30	5	160	SLE 19
Hose i.D. 25	32-40	81	18	M 10x35	5	210	SLE 25

Double-Ear Hose Clips

- Clips made of special reliable steel zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect, safe and unsolvable
- No risk of injury
- To assemble hoses and fittings for various media

Materials

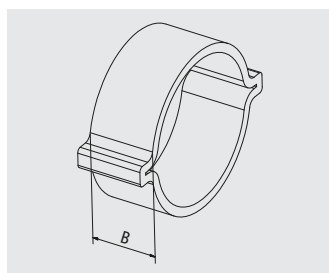
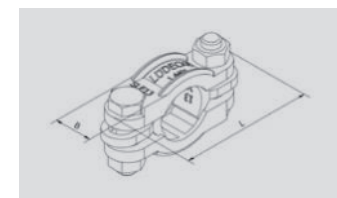
- Clips: Unbreakable special reliable steel zinc-plated and blue chromated (free of chrome VI)

100

Double-Ear Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43

Special assembly pincer	L	H	Weight	Type No.
	220	50	332	ZOSZ



High-Performance Hose Clips

made of Steel W1 (DIN 3017)

- High-performance hose clips made of steel W1, free of chrome VI, zinc-plated and thick layer passivated
- Optimum sealing through high belt tension – maximum strip safety
- Hose-protective through rounded edges and smooth band insides
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of tension over complete hose diameter
- Up to size 90 in boxes, sizes 100-180 in plastic bags, from size 190 individually
- [For safe, fast and removable assembly of various hoses and fittings for different media](#)

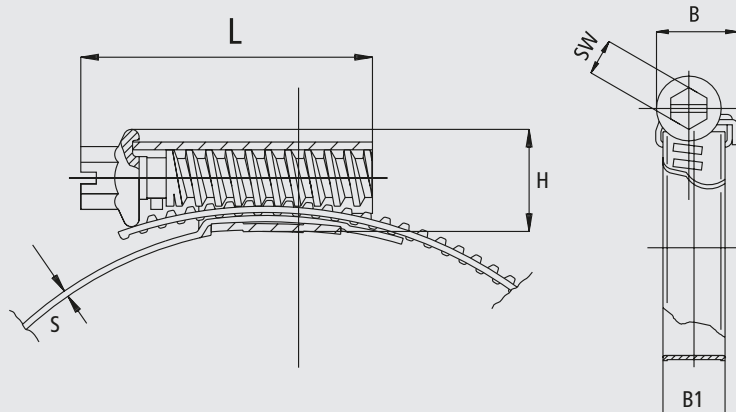
Materials

- Band, body, screw: Steel W1 zinc-plated and thick layer passivated

Norm
DIN 3017

High-Performance Hose Clips, band and lock made of steel W 1 zinc-plated

Range				torque		band-width		band-thickness		Weight	Type No.
				Max.Nm	L	H	B1	S			
mm	inch	B	SW								
8-12	5/18-1/2	14	7	2-2.5	20.5	11.5	9	0.7	100	12	HS 12
10-16	5/18-5/8	14	7	2-2.5	20.5	11.5	9	0.8	100	13	HS 16
12-22	1/2-3/4	14	7	3-3.5	24	11.5	9	0.8	100	16	HS 20
16-27	5/8-1	16	7	5-5.5	31	13	9	0.8	100	17	HS 25
20-32	3/4-1 1/4	16	7	5-5.5	31	13	12	0.8	50	27	HS 32
25-40	1-1 5/8	16	7	5-5.5	31	13	12	1.0	50	32	HS 40
30-45	1 3/8-1 3/4	16	7	5-5.5	31	13	12	1.0	50	33	HS 45
35-50	1 1/4-2	16	7	5-5.5	31	13	12	1.0	50	35	HS 50
40-60	1 5/8-2 3/8	16	7	5-5.5	31	13	12	1.0	25	39	HS 60
50-70	2-2 3/4	16	7	5-5.5	31	13	12	1.0	25	43	HS 70
60-80	2 3/8-3 1/8	16	7	5-5.5	31	13	12	1.0	25	45	HS 80
70-90	2 3/4-3 1/2	16	7	5-5.5	37	13	12	1.0	25	52	HS 90
80-100	3 1/8-4	16	7	5-5.5	37	13	12	1.0	10	53	HS 100
90-110	3 1/2-4 3/8	16	7	5-5.5	37	13	12	1.0	10	53	HS 110
100-120	4-4 3/4	16	7	5-5.5	37	13	12	1.0	10	58	HS 120
110-130	4 3/8-5 1/8	16	7	5-5.5	37	13	12	1.0	10	60	HS 130
120-140	4 3/4-5 1/2	16	7	5-5.5	37	13	12	1.0	10	63	HS 140
130-150	5 1/8-5 7/8	16	7	5-5.5	37	13	12	1.0	5	69	HS 150
140-160	5 1/2-6 1/4	16	7	5-5.5	37	13	12	1.0	5	71	HS 160
150-170	5 7/8-6 5/8	16	7	5-5.5	37	13	12	1.0	5	74	HS 170
160-180	6 1/4-7	16	7	5-5.5	37	13	12	1.0	5	77	HS 180
170-190	6 1/2-7 1/2	16	7	5-5.5	37	13	12	1.0	1	79	HS 190
180-200	7 1/8-8	16	7	5-5.5	37	13	12	1.0	1	81	HS 200
190-210	7 1/2-8 1/4	16	7	5-5.5	37	13	12	1.0	1	86	HS 210
200-220	8-8 3/4	16	7	5-5.5	37	13	12	1.0	1	92	HS 220
210-230	8 1/8-9	16	7	5-5.5	37	13	12	1.0	1	98	HS 230
220-240	8 3/4-9 3/8	16	7	5-5.5	37	13	12	1.0	1	101	HS 240
230-250	9-9 3/4	16	7	5-5.5	37	13	12	1.0	1	105	HS 250
240-260	9 3/8-10 1/4	16	7	5-5.5	37	13	12	1.0	1	108	HS 260
250-270	9 3/4-10 1/2	16	7	5-5.5	37	13	12	1.0	1	112	HS 270
260-280	10 1/4-11	16	7	5-5.5	37	13	12	1.0	1	116	HS 280



High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High-performance hose clips made of stainless steel W5
- Optimum sealing through high belt tension – maximum strip safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- [For safe, fast and removable assembly of various hoses and fittings for different media](#)

Materials

- Band, body, screw: Stainless Steel W5

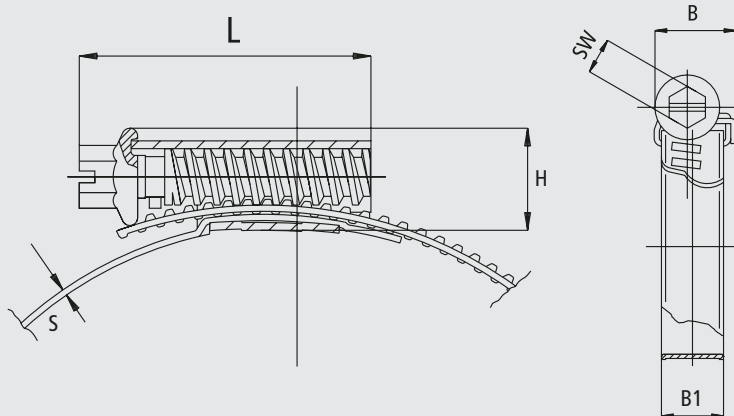
Norm

DIN 3017



High-Performance Hose Clips, band and lock made of stainless steel W 5

Range		torque		band-width		band-thickness					
mm	inch	B	SW	Max. Nm.	L	H	B1	S		Weight	Type No.
8-12	5/18-1/2	10.5	6	1.5	17	9.5	8	0.7	100	6	HSE 12
8-16	5/18-5/8	14	7	2-2.5	21	14	9	0.8	100	11	HSE 16
12-20	1/2-3/4	14	7	2-2.5	24	14	9	0.8	100	13	HSE 20
16-25	5/8-1	14	7	3-3.5	24	14	9	0.8	100	14	HSE 25
20-32	3/4-1 1/4	14	7	3-3.5	24	14	9	0.8	100	15	HSE 32
25-40	1-1 5/8	14	7	3-3.5	26	14	9	0.8	50	18	HSE 40
32-50	1 1/4-2	14	7	3-3.5	26	14	9	0.8	50	18	HSE 50
40-60	1 5/8-2 3/8	14	7	3-3.5	26	14	9	1.0	25	20	HSE 60
50-70	2-2 3/4	14	7	3-3.5	26	14	9	1.0	25	21	HSE 70
60-80	2 3/8-3 1/8	14	7	3-3.5	26	14	9	1.0	25	23	HSE 80
70-90	2 3/4-3 1/2	14	7	3-3.5	26	14	9	1.0	25	25	HSE 90
80-100	3 1/8-4	14	7	3-3.5	26	14	9	1.0	10	28	HSE 100



Ferrules for Low Pressure Hose Lines

- Ferrules made of annealed steel zinc-plated and yellow passivated
- Easy, fast and absolutely safe hose crimping with **LUDECKE** hand-operated assembly machine SPR-333 up to type LPH-23
- No risk of injury, clean and unsolvable connection
- [For crimping of various hoses and fittings for different media](#)

Materials

- Body: annealed steel zinc-plated and yellow passivated

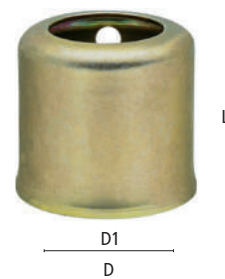
Max. Working Pressure

PN 16 bar

Ferrules for Low Pressure Hose Lines

for hose									
D	DIN 20018	water	PVC	L	D1	Assembly-M.	Weight		Type No.
12.5				17	8.5	SPR 333	3	100	LPH-12.5
13.5			6x3	20	9.3	SPR 333	5	100	LPH-13.5
14.5	6x3.5			17	10	SPR 333	5	100	LPH-14.5
16			8x3	17	11.5	SPR 333	5	100	LPH-16
18	9x3.5		10x3	20	13.5	SPR 333	7	100	LPH-18
19			12x3	20	13.9	SPR 333	9	100	LPH-19
19.5				26	14.5	SPR 333	10	100	LPH-19.5
21				32	16.5	SPR 333	12	100	LPH-21
22				32	17	SPR 333	16	100	LPH-22
23		13x3		32	17	SPR 333	18	100	LPH-23
25	13x5			32	17		19	100	LPH-25
28	15x6			32	20.5		22	100	LPH-28
30.5		19x4		33	24.3		24	100	LPH-30
33	19x6			35	24.8		40	25	LPH-33
38		25x4.5		35	28		47	25	LPH-38
41	25x7			40	30		64	25	LPH-41

For higher working pressure we recommend hydraulic crimping with turned steel-ferrules type PH (☹ page 245) or on request.



Hand-Operated Assembly Machine

for Low Pressure Ferrules

- Crimping machine for easy and safe assembly of low-pressure hoses from 3 to 16 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Simple:** Fast assembling quick and easy
- **Reliable:** Improved safety through perfect fit
- **Safe:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 9 mm and from 10 to 16 mm.
- **Flexible:** For mobile use

Assembly Machine

for hose						
Hose o.D./						
Hose i.D.	Range	suitable ferrule	e.g. for fitting		Weight	Type No.
3-16	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2 kg	SPR-333





Accessories



Ball Valves



Hose Clamps, Hose Clips
and Ferrules



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Accessories



Ball Valves

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Hose Clamps, Hose Clips and Ferrules

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Ball Valves



LUDECKE ball valves are used as shut-off valves in pipe systems.

The way they work is simple:




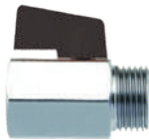
In the fitting, a ball serves as shut-off device which opens and closes the fitting by a 90 degrees rotation. Due to full passage (which means the inner diameter of the bore in the ball is equal to the inner diameter of the connected pipeline) only small losses of flow occur.

They seal through special sealing rings which are mounted between ball and housing.

Advantages:

- High-quality materials
- Robust, reliable, absolutely leakage-proof and durable
- Easy and fast handling
- Different sizes, versions and connection types

Broad Range

	Ball Valves - Sturdy Version	Ball Valves - Light Version	Double Ball Valves and Airhammer Ball Valves	Hexagon Ball Valves
				
Materials				
Body:	Brass CW617N	Forged brass nickel-plated	Brass CW617N	Brass MS 58 nickel-plated
Sockets:	Brass CW617N	Forged brass nickel-plated	Brass CW617N	-
Spindle and nut:	Brass MS 58 nickel-plated	Brass MS 58 nickel-plated	Brass MS 58 plain	-
Ball:	Brass MS 58 chromed	Brass MS 58 chromed	Brass MS 58 chromed	Brass MS 58 chromed
Ball seals:	PTFE	PTFE	PTFE glass fiber reinforced	PTFE
Spindle seals:	FKM	FKM	NBR	-
Handle:	Die-cast aluminium red/ black lacquered	Steel zinc-plated and coated with red PV	Steel red lacquered	Plastic
Max. Working Pressure:	PN 35 bar	see diagram	PN 35 bar	PN 10 bar
Temperature:	-15°C – + 100°C	-15°C – + 120°C	-15°C – + 100°C	-10°C – + 90°C
Thread:	DIN EN 10226	ISO 228	ISO 228	ISO 228
Page:	394	394	395	395

Ball Valves

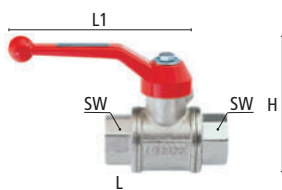
Sturdy Version made of Brass Nickel-Plated

- High-quality ball valves used for air, water, colour, solvents etc.
- Maintenance-free operation, long-living, sturdy and reliable, easy switching with full free passage, tested to be leakproof
- For industry, construction and civil installations

Materials

- Body and Sockets: Brass CW617N sandblasted and nickel-plated
- Spindle and nut: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chromed
- Ball seals: PTFE
- Spindle seals: FKM
- Handle: Die-cast aluminium red/ black lacquered

Max. Working Pressure	Temperature	Thread	Media	
PN 35 bar	-15°C – +100°C	DIN EN 10226	various	1



Ball Valves with female thread DIN EN 10226

Thread connection	L	SW	H	L1	Passage	Weight	Type No.
2 x R 1/4 f	50	25	78	95	8	296	KM 14 T
2 x R 3/8 f	60	25	78	95	10	302	KM 38 T
2 x R 1/2 f	75	26	82	95	15	390	KM 12 T
2 x R 3/4 f	80	32	90	104	20	682	KM 34 T
2 x R 1 f	90	39	97	104	25	876	KM 10 T
2 x R 2 f	140	70	170	178	50	3700	KM 20 T

Ball Valves

Light Version made of Brass Nickel-Plated

- Ball Valves with full passage and smaller sizes
- For construction, industry, craftsmanship, agriculture or civil installations

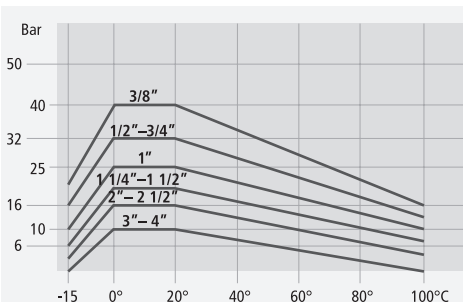
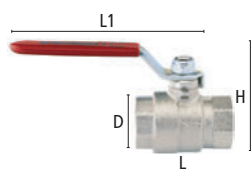
Materials

- Body and Sockets: Forged brass nickel-plated
- Ball: Brass MS 58 chromed
- Spindle seals: FKM
- Spindle and nut: Brass MS 58 nickel-plated
- Ball seals: PTFE
- Handle: Steel zinc-plated and coated with red PVC

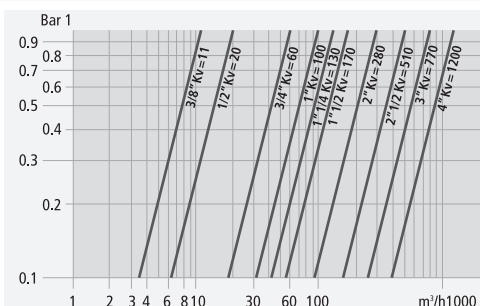
Max. Working Pressure	Temperature	Thread	Passage	Pressure drop	Media	
⊖ Diagram	-15°C – +120°C	ISO 228	⊖ Diagram	⊖ Diagram	various	1

Ball Valves with female thread ISO 228

Thread connection	L	H	D	L1	Passage	Weight	Type No.
2 x G 1/4 f	46	48	24	85	8	150	K 14 K
2 x G 3/8 f	46	48	24	85	10	132	K 38 K
2 x G 1/2 f	50	40	30	85	15	180	K 12 K
2 x G 3/4 f	58	48	38	105	20	306	K 34 K
2 x G 1 f	68	52	46	105	25	470	K 10 K
2 x G 1 1/4 f	80	63	58	130	32	813	K 54 K
2 x G 1 1/2 f	93	69	70	130	40	1262	K 15 K
2 x G 2 f	110	83	86	165	50	2100	K 20 K
2 x G 2 1/2 f	133	116	111	260	65	3799	K 25 K
2 x G 3 f	156	127	135	260	80	5625	K 30 K



Pressure and temperature diagram
For each ball valve, the nominal pressure PN depends on the type size and the temperature or vice versa.



Port capacity and pressure drop diagram
The Kv is the flow rate, expressed in cubic meters per hour, at a pressure drop of 1 bar with water at 15°C.

Double Ball Valves and Airhammer Ball Valves

Sturdy Version made of Brass Plain

- High-quality, maintenance free and extremely robust valves made of brass
- With lever stop and ventilation, on request also without ventilation
- For compressed air supply in construction, at compressors and airhammers in the industry

Materials

- Body and Sockets: Brass CW617N
- Spindle and nut: Brass MS 58 plain
- Ball: Brass MS 58 chromed
- Ball seals: PTFE glass fiber reinforced
- Spindle seals: NBR
- Handle: Steel red lacquered

Max. Working Pressure	Temperature	Thread	Media	
PN 35 bar	-15°C – +100°C	ISO 228	Compressed air	1

Double Ball Valves

Connection*	Thread connection**	L	SW	H	Passage	Weight	Type No.
2 x G 3/4 m	G 1 f	115	41	105	13	1039	DKH 10
2 x KIGO 34	G 1 f	170	41	130	13	1350	DKH 10 G
2 x KIM 34	G 1 f	170	41	130	13	1435	DKH 10 M

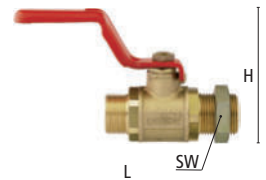
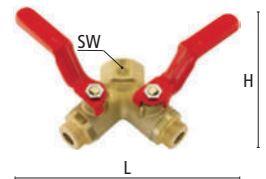
Airhammer Ball Valves, inlet thread with locking nut SW 32, outlet with inside cone 1:4

Connection*	Thread connection**	L	SW	H	Passage	Weight	Type No.
G 3/4 m	G 3/4 m	81	32	82	13	491	BKH 34
KIM 34	G 3/4 m	120	32	82	13	684	BKH 34 M

- On request we produce valves according to your drawings or samples with special connections and seals.
- Also available with T-Handle up to DN 25 e.g. KM 34 TBG (surcharge of 3.62 Euro/ piece)
- Please order ball valves used in inspected plants separately, e.g. KM 12 T - AD (after TRB 404)

*Outlet

**Inlet



Hexagon Ball Valves

- Miniature ball valves made of brass nickel-plated
- For pneumatic or water installations in industry, construction or civil applications

Materials

- Body: Brass MS 58 nickel-plated
- Ball: Brass MS 58 chromed
- Ball seals: PTFE
- Handle: Plastic

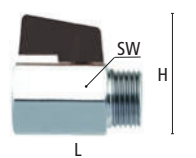
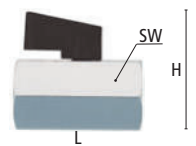
Max. Working Pressure	Temperature	Thread	Media	
PN 10 bar	-10°C – +90°C	ISO 228	Air / Water	10

Hexagon Ball Valves with 2 x female thread

Thread connection	L	SW	H	Passage	Weight	Type No.
2 x G 1/4 f	36	19	38	5.5	71	KM 14 TS
2 x G 3/8 f	41	21	38	8	86	KM 38 TS
2 x G 1/2 f	48	25	42	10	137	KM 12 TS

Hexagon Ball Valves with female/male thread

Thread connection	L	SW	H	Passage	Weight	Type No.
G 1/4 m - G 1/4 f	36	19	38	5.5	61	KMZ 14 TS
G 3/8 m - G 3/8 f	41	21	38	8	83	KMZ 38 TS
G 1/2 m - G 1/2 f	48	25	42	10	130	KMZ 12 TS



Hose Clamps, Hose Clips and Ferrules



For hose assembly of fittings, different assembly methods from strong clamps to light clips and ferrules can be used subject to application, media, pressure or hose material.






Selection criteria are:

- Safety of the assembly
- Solvability
- Quickness
- Necessary devices (e.g. crimping machine)
- Cleanliness/ risk of injury (e.g. protruding screws)

Advantages:

- High-quality materials
- Robust, reliable and durable
- Easy handling
- Different sizes and versions
- Extremely safe connection due to hose clips with spacers and safety claws
- Can be reused at any time

Broad Range

	Hose Clamps - Standard Version	Hose Clamps - US-Version	Double-Ear Hose Clips	High-Performance Hose Clips	Ferrules for Low Pressure Hose Lines
Materials					
Clamps:	Malleable iron zinc-pl. and yellow passivated/ Stainless Steel 1.4401	Malleable iron zinc-pl. and yellow passivated	Unbreakable special reliable steel zinc-plated & blue chromated	-	-
Spacers:	Malleable iron zinc-pl. and yellow passivated./ Stainless Steel 1.4401	-	-	-	-
Screws:	Steel zinc-plated/ Stainless Steel A4-70	Steel zinc-plated	-	Steel W1 zinc-pl. and thick layer passiv./ Stainless Steel W5	-
Band:	-	-	-	Steel W1 zinc-pl. and thick layer passiv./ Stainless Steel W5	-
Body:	-	-	-	Steel W1 zinc-pl. and thick layer passiv./ Stainless Steel W5	Annealed steel, zinc-plated and yellow passivated
Max. Working Pressure:	PN 16/ 25 bar	PN 25 bar	-	-	-
Norm:	DIN 20039 A/B	-	-	DIN 3017	-
Page:	397	398	398	399	401

- Robust clamps made of malleable iron zinc plated and yellow passivated (free of chrome VI) or stainless steel 1.4401
- Robust, easy and secure hose assembly for various fittings and applications

Materials

- Clamps, spacers: Malleable iron zinc-plated and yellow passivated (free of chrome VI)/ Stainless Steel 1.4401
- Screws: Steel zinc-plated/ Stainless Steel A4-70

Max. Working Pressure	Norm
PN 16 / 25 bar	DIN 20039 A/B

Hose Clamps made of malleable iron, two parts with overlapping cast-on-spacers

Hose-o.D./		L	B	Screw size		Weight	Type No.
Version	Range						
Hose i.D. 13	17-22	60	17	M 8x30	10	95	S 22

Hose Clamps DIN 20039 A made of stainless steel 1.4401, two parts with loose spacers

Hose-o.D./		L	B	Screw size		Weight	Type No.
Version	Range						
Hose i.D. 13	18-26	63	18	M 8x30	5	140	SLE 13
Hose i.D. 19	26-33	71	18	M 8x30	5	160	SLE 19
Hose i.D. 25	32-40	81	18	M 10x35	5	210	SLE 25

Hose Clamps DIN 20039 A made of malleable iron, two parts with loose spacers

Hose-o.D./		L	B	Screw size		Weight	Type No.
Version	Range						
Hose i.D. 13	22-29	63	18	M 8x30	10	128	SL 29*
Hose i.D. 19	28-34	71	18	M 8x30	10	134	SL 34*
Hose i.D. 25	32-40	81	18	M 10x35	10	188	SL 40*
Hose i.D. 32	39-49	91	20	M 10x35	10	244	SL 49*
Hose i.D. 38	48-60	108	24	M 10x45	5	297	SL 60*
Hose i.D. 50	56-72	116	25	M 10x50	5	340	SL 72
Hose i.D. 50	60-76	127	25	M 10x50	5	405	SL 76
Hose i.D. 63	77-94	146	30	M 12x55	5	556	SL 94
Hose i.D. 75	89-101	139	25	M 12x110	1	665	SL 400
Hose i.D. 75	94-115	176	35	M 12x65	1	739	SL 115
Hose i.D. 89	113-127	170	27	M 12x110	1	890	SL 525
Hose i.D. 89	115-145	198	38	M 12x80	1	1046	SL 145
Hose i.D. 100	127-140	178	28	M 12x110	1	972	SL 550
Hose i.D. 100	135-155	194	27	M 12x110	1	984	SL 600
Hose i.D. 125	155-175	217	30	M 12x125	1	1130	SL 675
Hose i.D. 150	175-195	244	30	M 12x125	1	1445	SL 769
Hose i.D. 175	210-225	280	35	M 16x150	1	2163	SL 875
Hose i.D. 200	227-250	312	35	M 16x150	1	2610	SL 988

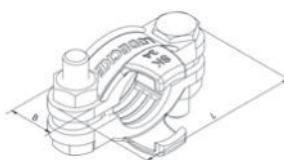
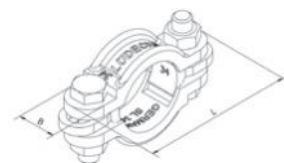
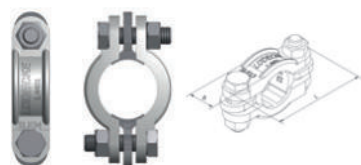
*according to DIN 20039 A

Hose Clamps DIN 20039 B made of malleable iron, two parts with loose spacers and safety claws***

Hose-o.D./		L	B	Screw size		Weight	Type No.
Version	Range						
Hose i.D. 13	22-29	63	18	M 8x30	10	142	SK 29
Hose 19x2		63	18	M 8x30	10	140	SK 29 FL**
Hose i.D. 19	28-32	77	21	M 10x35	10	220	SK 34
Hose 25x2		77	21	M 10x35	10	220	SK 34 FL**
Hose i.D. 25	35-42	90	22	M 10x35	10	272	SK 39
Hose i.D. 28	42-45	98	24	M 10x35	5	340	SK 44
Hose i.D. 35	45-53	108	25	M 10x45	5	380	SK 51
Hose i.D. 42	55-60	119	26	M 10x45	1	416	SK 60
Hose i.D. 50	60-73	132	30	M 12x55	1	637	SK 73
Hose i.D. 75	86-102	160	28	M 12x55	1	860	SK 75

**for flat hose

***PN 25 bar



Hose Clamps

US-Version

- Hose clamps made of malleable iron zinc plated and yellow passivated (free of chrome VI)
- **Robust, easy and secure hose assembly for various fittings and applications**

Materials

- Clamps: Malleable iron zinc-plated and yellow passivated (free of chrome VI)
- Screws: Steel zinc-plated

Max. Working Pressure

PN 25 bar

US-Version Hose Clamps, two parts with safety claws

Hose-o.D./								
Version	Range	L	B	Screw size	Screws		Weight	Type No.
Hose i.D. 13	21-27	45	55	M 8x35	2	10	171	LB-4
Hose i.D. 19	30-35	43	65	M 8x45	2	10	176	SKA 34
Hose i.D. 19	30-33	64	70	M 10x50	2	1	405	LBU-9
Hose i.D. 19	33-38	70	71	M 10x50	2	1	413	LB-9
Hose i.D. 19	38-43	68	78	M 10x60	2	1	433	LB-10
Hose i.D. 25	34-45	70	85	M 10x50	2	1	500	SKA 10
Hose i.D. 50	63-70	100	120	M 12x80	4	1	1503	LBU-29



Double-Ear Hose Clips

- Clips made of special reliable steel zinc plated and blue chromated (free of chrome VI)
- Easy and fast assembly with pincer
- Concentric and strong clamp-effect, safe and unsolvable
- No risk of injury
- **To assemble hoses and fittings for various media**

Materials

- Clips: Unbreakable special reliable steel zinc-plated and blue chromated (free of chrome VI)

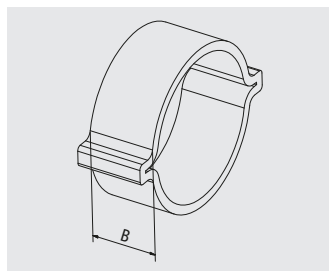


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Double-Ear Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43

Special assembly pincer	L	H	Weight	Type No.
	220	50	332	ZOSZ



High-Performance Hose Clips

made of Steel W1 (DIN 3017)

- High-performance hose clips made of steel W1, free of chrome VI, zinc-plated and thick layer passivated
- Optimum sealing through high belt tension – maximum strip safety
- Hose-protective through rounded edges and smooth band insides
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of tension over complete hose diameter
- Up to size 90 in boxes, sizes 100-180 in plastic bags, from size 190 individually
- For safe, fast and removable assembly of various hoses and fittings for different media

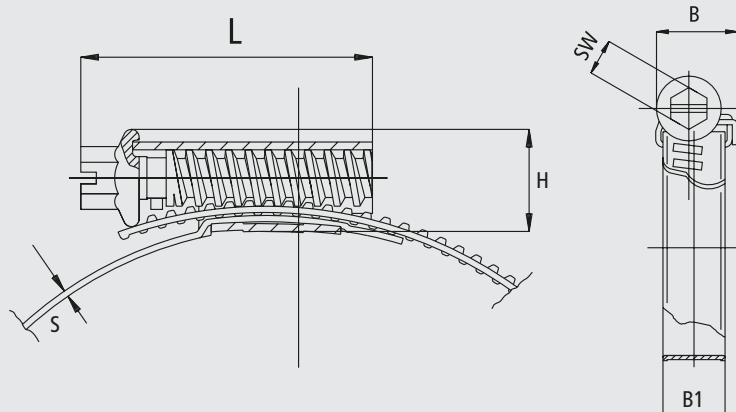
Materials

- Band, body, screw: Steel W1 zinc-plated and thick layer passivated

Norm
DIN 3017

High-Performance Hose Clips, band and lock made of steel W 1 zinc-plated

Range		torque		band-width		band-thickness				Weight	Type No.
mm	inch	B	SW	Max.Nm	L	H	B1	S			
8-12	5/18-1/2	14	7	2-2.5	20.5	11.5	9	0.7	100	12	HS 12
10-16	5/18-5/8	14	7	2-2.5	20.5	11.5	9	0.8	100	13	HS 16
12-22	1/2-3/4	14	7	3-3.5	24	11.5	9	0.8	100	16	HS 20
16-27	5/8-1	16	7	5-5.5	31	13	9	0.8	100	17	HS 25
20-32	3/4-1 1/4	16	7	5-5.5	31	13	12	0.8	50	27	HS 32
25-40	1-1 5/8	16	7	5-5.5	31	13	12	1.0	50	32	HS 40
30-45	1 3/8-1 3/4	16	7	5-5.5	31	13	12	1.0	50	33	HS 45
35-50	1 1/4-2	16	7	5-5.5	31	13	12	1.0	50	35	HS 50
40-60	1 5/8-2 3/8	16	7	5-5.5	31	13	12	1.0	25	39	HS 60
50-70	2-2 3/4	16	7	5-5.5	31	13	12	1.0	25	43	HS 70
60-80	2 3/8-3 1/8	16	7	5-5.5	31	13	12	1.0	25	45	HS 80
70-90	2 3/4-3 1/2	16	7	5-5.5	37	13	12	1.0	25	52	HS 90
80-100	3 1/8-4	16	7	5-5.5	37	13	12	1.0	10	53	HS 100
90-110	3 1/2-4 3/8	16	7	5-5.5	37	13	12	1.0	10	53	HS 110
100-120	4-4 3/4	16	7	5-5.5	37	13	12	1.0	10	58	HS 120
110-130	4 3/8-5 1/8	16	7	5-5.5	37	13	12	1.0	10	60	HS 130
120-140	4 3/4-5 1/2	16	7	5-5.5	37	13	12	1.0	10	63	HS 140
130-150	5 1/8-5 7/8	16	7	5-5.5	37	13	12	1.0	5	69	HS 150
140-160	5 1/2-6 1/4	16	7	5-5.5	37	13	12	1.0	5	71	HS 160
150-170	5 7/8-6 5/8	16	7	5-5.5	37	13	12	1.0	5	74	HS 170
160-180	6 1/4-7	16	7	5-5.5	37	13	12	1.0	5	77	HS 180
170-190	6 1/2-7 1/2	16	7	5-5.5	37	13	12	1.0	1	79	HS 190
180-200	7 1/8-8	16	7	5-5.5	37	13	12	1.0	1	81	HS 200
190-210	7 1/2-8 1/4	16	7	5-5.5	37	13	12	1.0	1	86	HS 210
200-220	8-8 3/4	16	7	5-5.5	37	13	12	1.0	1	92	HS 220
210-230	8 1/8-9	16	7	5-5.5	37	13	12	1.0	1	98	HS 230
220-240	8 3/4-9 3/8	16	7	5-5.5	37	13	12	1.0	1	101	HS 240
230-250	9-9 3/4	16	7	5-5.5	37	13	12	1.0	1	105	HS 250
240-260	9 3/8-10 1/4	16	7	5-5.5	37	13	12	1.0	1	108	HS 260
250-270	9 3/4-10 1/2	16	7	5-5.5	37	13	12	1.0	1	112	HS 270
260-280	10 1/4-11	16	7	5-5.5	37	13	12	1.0	1	116	HS 280



High-Performance Hose Clips

made of Stainless Steel W5 (DIN 3017)

- High-performance hose clips made of stainless steel W5
- Optimum sealing through high belt tension – maximum strip safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new suspension, hence improved tightening and fracture torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Optimum distribution of tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable assembly of various hoses and fittings for different media

Materials

- Band, body, screw: Stainless Steel W5

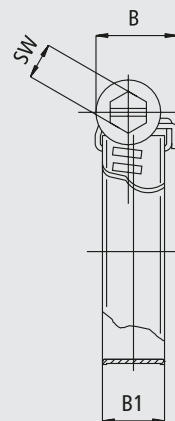
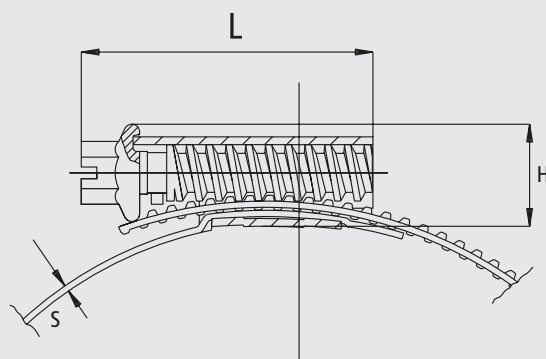
Norm

DIN 3017



High-Performance Hose Clips, band and lock made of stainless steel W 5

Range		torque		band-width		band-thickness					
mm	inch	B	SW	Max. Nm.	L	H	B1	S		Weight	Type No.
8-12	5/18-1/2	10.5	6	1.5	17	9.5	8	0.7	100	6	HSE 12
8-16	5/18-5/8	14	7	2-2.5	21	14	9	0.8	100	11	HSE 16
12-20	1/2-3/4	14	7	2-2.5	24	14	9	0.8	100	13	HSE 20
16-25	5/8-1	14	7	3-3.5	24	14	9	0.8	100	14	HSE 25
20-32	3/4-1 1/4	14	7	3-3.5	24	14	9	0.8	100	15	HSE 32
25-40	1-1 5/8	14	7	3-3.5	26	14	9	0.8	50	18	HSE 40
32-50	1 1/4-2	14	7	3-3.5	26	14	9	0.8	50	18	HSE 50
40-60	1 5/8-2 3/8	14	7	3-3.5	26	14	9	1.0	25	20	HSE 60
50-70	2-2 3/4	14	7	3-3.5	26	14	9	1.0	25	21	HSE 70
60-80	2 3/8-3 1/8	14	7	3-3.5	26	14	9	1.0	25	23	HSE 80
70-90	2 3/4-3 1/2	14	7	3-3.5	26	14	9	1.0	25	25	HSE 90
80-100	3 1/8-4	14	7	3-3.5	26	14	9	1.0	10	28	HSE 100



Ferrules for Low Pressure Hose Lines

- Ferrules made of annealed steel zinc-plated and yellow passivated
- Easy, fast and absolutely safe hose crimping with **LUDECKE** hand-operated assembly machine SPR-333 up to type LPH-23
- No risk of injury, clean and unsolvable connection
- For crimping of various hoses and fittings for different media

Materials

- Body: annealed steel zinc-plated and yellow passivated

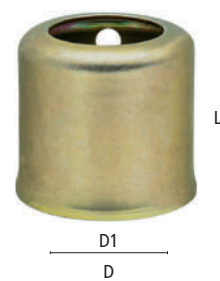
Max. Working Pressure

PN 16 bar

Ferrules for Low Pressure Hose Lines

for hose									
D	DIN 20018	water	PVC	L	D1	Assembly-M.	Weight		Type No.
12.5				17	8.5	SPR 333	3	100	LPH-12.5
13.5			6x3	20	9.3	SPR 333	5	100	LPH-13.5
14.5	6x3.5			17	10	SPR 333	5	100	LPH-14.5
16			8x3	17	11.5	SPR 333	5	100	LPH-16
18	9x3.5		10x3	20	13.5	SPR 333	7	100	LPH-18
19			12x3	20	13.9	SPR 333	9	100	LPH-19
19.5				26	14.5	SPR 333	10	100	LPH-19.5
21				32	16.5	SPR 333	12	100	LPH-21
22				32	17	SPR 333	16	100	LPH-22
23		13x3		32	17	SPR 333	18	100	LPH-23
25	13x5			32	17		19	100	LPH-25
28	15x6			32	20.5		22	100	LPH-28
30.5		19x4		33	24.3		24	100	LPH-30
33	19x6			35	24.8		40	25	LPH-33
38		25x4.5		35	28		47	25	LPH-38
41	25x7			40	30		64	25	LPH-41

For higher working pressure we recommend hydraulic crimping with turned steel-ferrules type PH (☹ page 245) or on request.



Hand-Operated Assembly Machine

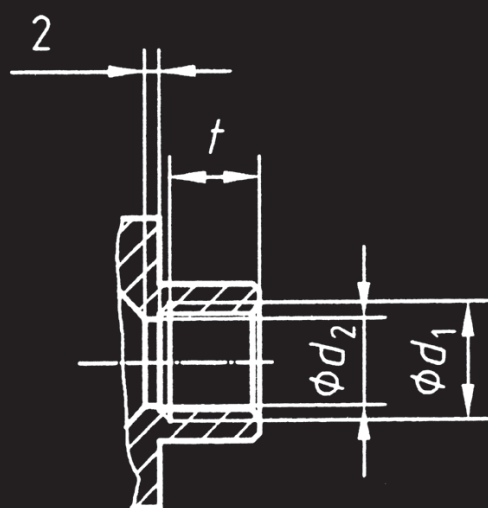
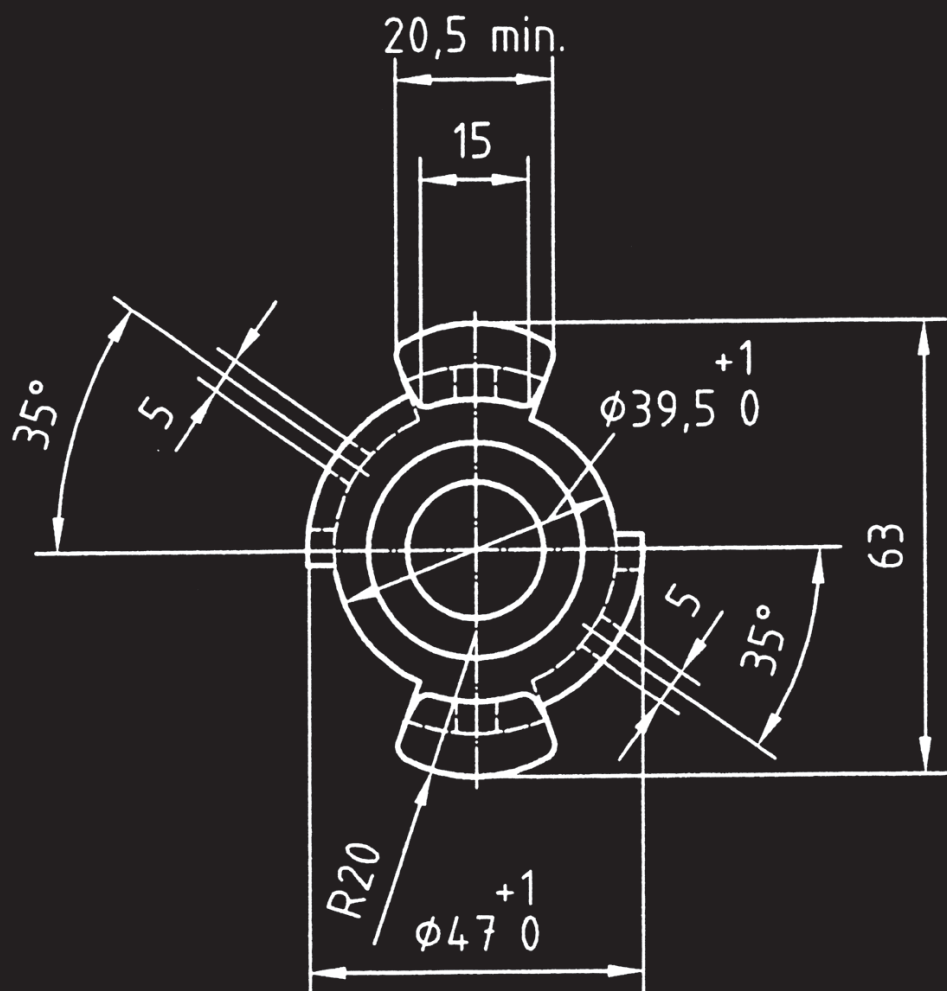
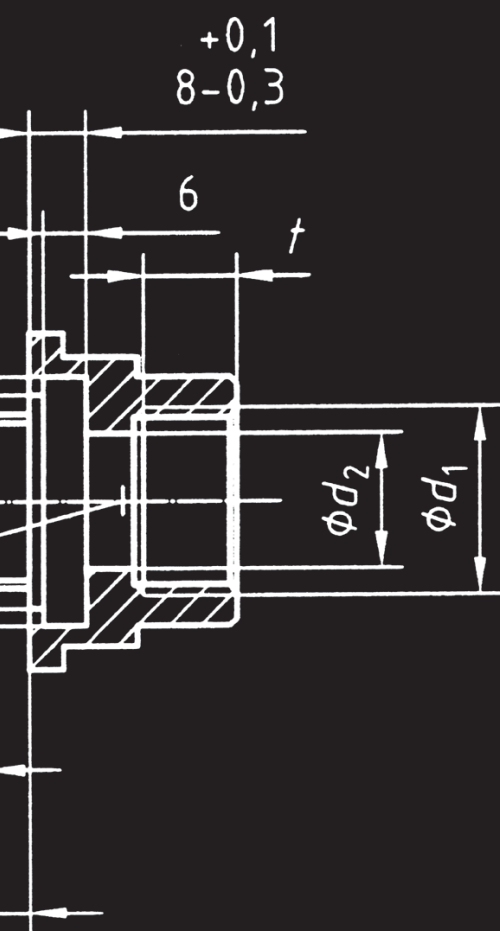
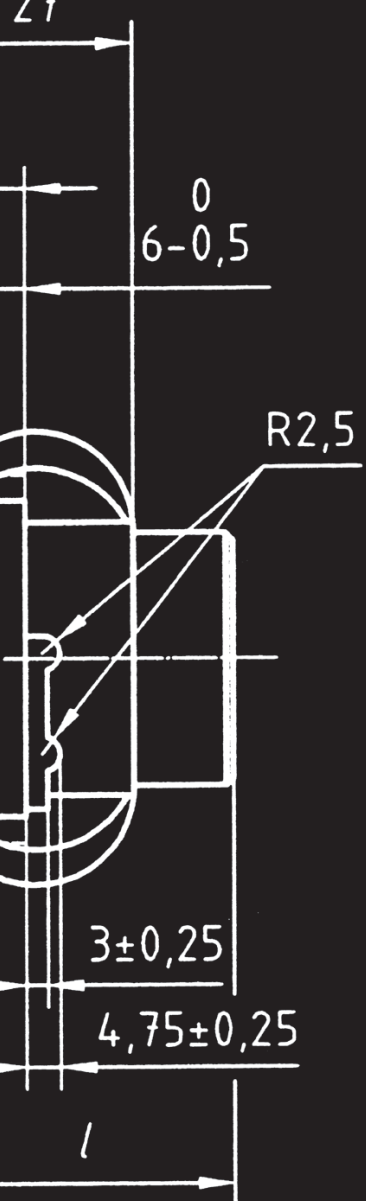
for Low Pressure Ferrules

- Crimping machine for easy and safe assembly of low-pressure hoses from 3 to 16 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Simple:** Fast assembling, quick and easy
- **Reliable:** Improved safety through perfect fit
- **Safe:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 9 mm and from 10 to 16 mm.
- **Flexible:** For mobile use

Assembly Machine

for hose						
Hose o.D./						
Hose i.D.	Range	suitable ferrule	e.g. for fitting		Weight	Type No.
3-16	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2 kg	SPR-333





Technical Appendix



Materials



Sealing Materials



Threads








Conversion Tables



Materials

Standard Materials

Depending on the media, application and requirement, **LUDECKE** uses various types of materials.

		
Material	Malleable Iron	Brass
Specification	White according to DIN 1562	Brass MS 58 (CuZn39Pb3) Material CW614N
Description	<ul style="list-style-type: none"> • Steel carbon material, gets its mechanical characteristics from a special heat treatment • Allows to manufacture complex forms made of casting → die cast hardening by thermo treatment • Best resilience characteristics: material composition prevents brittle fracturing in heavy duty applications 	<ul style="list-style-type: none"> • Most used alloy for machining • High durability • Perfectly suited for galvanisation (nickel) • Very good for producing turned parts
Pressure Resistance	300 - 420 N/mm ²	Min. 430 N/mm ²
Industries	     	      

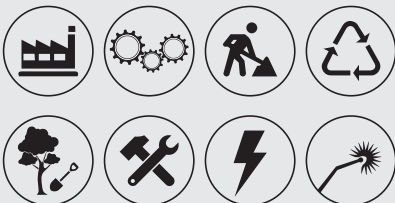


Machining Steel

11 S Mn Pb 30K
Material 1.0718 acc. to DIN EN 10087

- Best possible characteristics for an economic production of turned parts with utmost precision
- High durability
- Best surface quality
- Excellent weldability

380 - 570 N/mm²

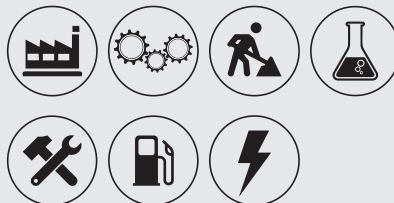


Aluminium

Al Mg Si 1 F 31
Material according to EN AW-6082

- Wrought alloy Al Mg Si 1 F 31 can be hardened up to a medium firmness
- Good corrosion resistance
- Polishable, chemical resistant
- Perfect for machining

Min. 310 N/mm²

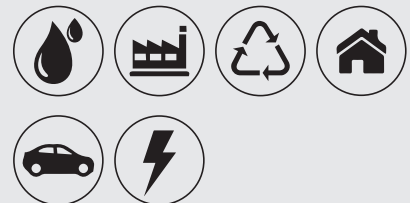


High Resistant Special Brass (ECOBRESS)

UNS C 69300

- New, innovative material
- Combines processing characteristics of brass and hardness of stainless steel
- Contains no toxic additives nor lead (according to automotive standards)
- Durable shiny colour























Min. 600 N/mm²

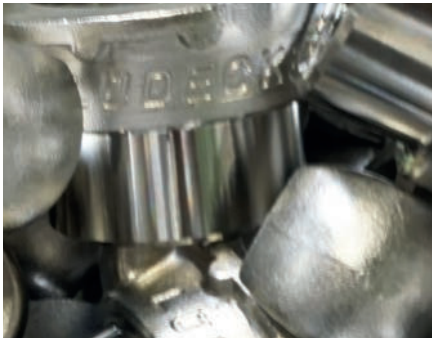


Materials

Stainless Steel

For applications with specific hygiene standards or in lines carrying aggressive media, top-quality couplings and fittings are required that connect/disconnect media-carrying lines to tools, machines and equipment in a safe and reliable way. To meet the necessary demands and to guarantee a high durability, **LUDECKE** offers couplings and fittings made of stainless steel.

			
Material	Stainless Steel 1.4105	Stainless Steel 1.4305	Stainless Steel 1.4307
Specification	Ferritic steels according to DIN EN 10088-3	Austenitic steels according to DIN EN 10088-3	Austenitic steels according to DIN EN 10088-3
Description	<ul style="list-style-type: none"> • Excellent machinability • Bad weldability 	<ul style="list-style-type: none"> • Excellent machinability • Bad weldability 	<ul style="list-style-type: none"> • Good machinability • Excellent weldability • Suitable for cryogenic applications
Pressure Resistance	430 - 630 N/mm ²	500 - 750 N/mm ²	500 - 700 N/mm ²
Industries	       	       	     



Stainless Steel 1.4401

Austenitic steels according to
DIN EN 10088-3

- Very good cold formability
- Excellent weldability
- Suitable for cryogenic applications

500 - 700 N/mm²

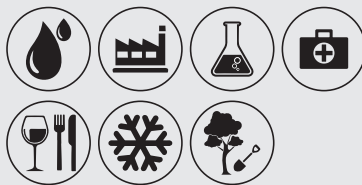


Stainless Steel 1.4404

Austenitic steels according to
DIN EN 10088-3

- Excellent weldability
- Suitable for cryogenic applications

500 - 700 N/mm²



Stainless Steel 1.4571

Austenitic steels according to
DIN EN 10088-3











- Suitable for cryogenic applications
- Excellent weldability
- Bad machinability


























500 - 700 N/mm²



Sealing Materials Characteristics

Depending on the media, application and requirement, we recommend different types of sealing materials.

Material	NBR/ Nitril	EPDM	FKM
Specification	NBR	Ethylen-Propylene-Terpolymer	Fluor elastomer/ FPM
Description	<ul style="list-style-type: none"> Resistance to mineral based oils and carbon hydrate containing gasolines 	<ul style="list-style-type: none"> Excellent resistance to water, alkali, mild acids and oxygenic containing solvents* High resistance vs. aging 	<ul style="list-style-type: none"> Very good for use of various oils and greases*
Pressure resistance	Best	Best	Best
High temperature resistance	Good	Good	Best
Low temperature resistance	Best	Best	Good
Typical application	Hydraulics, Pneumatics	Brake fluids based on glycol and hot water as well as hot steam, hot water and heated air up to 150°C	Hydraulics, Aviation, Automotive
Industries	  	  	   

PTFE (Teflon)	Hypalon	TFEP	FFKM
Polytetrafluorethylen	Chlorosulfonated-Polyethylene (CSPE) Synthetic Rubber/ CSM	Tetrafluorethylene/ Propylene	Perfluoroelastomer
<ul style="list-style-type: none"> • High particle crystalline plastics • Not meltable-liquid, only rubber like and soft • Excellent gliding properties • Barely wettable • To be used in a wide temperature range • Excellent chemical resistance • Weather resistance 	<ul style="list-style-type: none"> • Highly resistant to chemicals • Extremely resistant to oxidants, light and weather (especially with strong sunlight and ozone) 	<ul style="list-style-type: none"> • Excellent resistance against various media and chemicals*, in particular media with amine containing corrosion inhibitors 	<ul style="list-style-type: none"> • Similar chemical resistance like PTFE • Elastic features of FPM/ FKM • Extraordinary pressure and recovery properties
Best	Best	Best	Best
Best	Best	Best	Best
Best	Best	Good	Best
Tank processing, chemical pumps, coating for repellent surfaces, bearing, seals and thread sealing tapes, electronic insulating fittings, bearing constructions, antiadhesive coatings	Cable coverage, acid resistant hoses, inner coating of tanks, seals, membranes	Chemical plants, engine manufacturing	Chemical plants, oil production, aviation, engine manufacturing and fittings
    	    	      	       

*Complete overview of the media resistance can be seen on page 410.

Sealing Materials

Table of Resistance

Media	Brass	NBR	EPDM	FKM	PTFE	Hypalon	TFEP	FFKM
Acetic Acid	3	3	4	3	1	1	-	1
Acetone	1	4	1	4	1	2	4	1
Acetylene	3	1	1	1	1	1	-	1
Acid Brine	4	1	1	1	1	-	-	-
Acrylnitril	1	4	4	3	1	4	-	1
Ammonia (dry)	4	2	1	4	1	1	1	1
Air	1	1	-	1	1	-	-	-
Aviation-Gasoline	1	1	4	1	1	-	-	-
Beer	2	1	1	1	1	1	-	1
Benzene	2	4	4	3	1	4	3	1
Borax	2	1	1	1	1	1	-	1
Bromine (dry)	3	4	4	3	1	3	-	1
Butane (gaseous)	1	2	4	1	1	1	-	1
Carbon Dioxide (dry)	1	1	2	1	1	1	-	1
Carbon Acid	2	4	2	1	1	4	-	-
Carbonic Acid	4	1	2	1	1	1	-	1
Castor Oil	1	1	3	1	1	1	1	1
Chloroform (dry)	2	4	4	1	1	1	4	1
Chrom Acid	4	4	4	1	1	1	-	-
Chlorine (dry)	4	4	2	2	1	1	-	1
Diesel Oil	1	1	4	1	1	2	4	1
Drill Oil	1	2	-	1	1	-	-	-
Emulsion Oil-Water	1	1	-	1	1	-	-	-
Fat Acid	4	2	4	1	1	2	-	1
Ferric Chloride	2	2	1	1	1	1	-	1
Fluor (dry)	4	4	4	2	1	1	-	2
Formic Acid	2	4	3	4	1	1	2	2
Formaldehyde	2	2	1	4	1	1	1	1
Gasoline	1	1	4	1	1	1	-	1
Glucose	1	1	1	1	1	1	-	1
Glycol	2	1	1	1	1	1	-	1
Glycerin	4	1	1	1	1	1	1	1
Heavy Fuel	2	4	4	3	1	2	-	-
Hydrogen Peroxide	2	4	3	2	1	1	-	1
Hydrochloric	4	4	1	2	1	1	2	1
Ink	3	1	1	1	1	1	-	-
Kerosene	3	1	4	1	1	1	1	1
Liquid Gas	1	3	-	1	1	-	-	-
Light Fuel	2	3	4	2	1	2	-	-
Lighting-Gas (w/o. Benzene)	1	2	-	1	1	-	-	-
Linseed Oil	2	1	4	1	1	1	-	1

Media	Brass	NBR	EPDM	FKM	PTFE	Hypalon	TFEP	FFKM
Lubricating Oil	2	1	4	1	1	3	-	1
Magnesium Hydroxide	3	1	1	1	1	1	-	1
Magnesium Sulfate	2	1	1	1	1	1	-	1
Methane	1	1	4	1	1	2	-	1
Mercury	4	1	1	1	1	1	-	1
Milk	-	1	3	1	1	1	-	1
Mineral Oil	1	1	4	1	1	4	-	1
Molasses	3	1	1	1	1	1	-	-
Naphata	2	1	4	1	1	1	-	1
Naphtalene	3	4	4	1	1	1	1	1
Nitric Acid	4	4	2	2	1	1	2	1
Nitrobenzen	4	4	4	2	1	1	1	1
Nitrogen	1	1	1	1	1	1	-	1
Olive Oil	2	1	4	1	1	2	1	-
Oil Acid	2	3	4	2	1	4	1	-
Oxygen	1	4	1	2	1	3	-	1
Paraffin	1	1	4	1	1	4	-	1
Pentan	1	1	4	1	1	-	-	-
Petroleum	1	1	4	1	1	2	-	1
Phosphor Acid (Cold)	4	2	2	1	1	1	1	1
Propylene	2	1	4	1	1	4	-	1
Potassium Chloride	2	1	1	1	1	1	1	1
Potassium Sulfate (watery)	2	1	1	1	1	1	-	1
Resin	1	3	-	3	1	-	-	-
Sodium Carbonate	3	1	1	1	1	1	-	1
Sodium Chloride	3	1	1	1	1	1	1	1
Sodium Nitrate	2	1	1	1	1	1	1	1
Sodium Sulfate	2	1	2	1	1	1	-	1
Sodium Sulfide	4	2	1	1	1	1	-	-
Sodium Hydroxide 2% cold	3	1	1	1	1	1	1	1
Steam (100°C)	1	4	1	4	1	1	1	1
Sulphuric Acid	3	4	4	1	1	1	1	1
Seawater	2	1	1	1	1	1	-	1
Tannic Acids	2	2	1	1	1	1	-	1
Tar and Tar Oil	3	4	4	2	1	4	-	1
Terpentine	2	2	4	1	1	1	3	1
Toluene	1	4	4	2	1	4	4	1
Tri-Per	1	4	-	1	1	-	-	-
Varnishes and Solvents	3	4	4	1/4	1	4	-/4	1
Vinegar	3	2	1	2	1	1	-	1
Water (Cold)	1	1	1	1	1	1	1	1
Xylole	1	4	4	1	1	2	3	1
Zinc Chloride	4	2	1	1	1	2	1	1
Zinc Sulfate	2	1	1	1	1	1	-	1

1 = high resistant 2 = resistant 3 = limited resistant 4 = non-resistant - = not tested yet

Threads

Thread Types

Our fittings are available with:

Thread Type	Current Norm	Old Norm
Metric ISO Thread	DIN 13	DIN 13
Pipe Thread	DIN EN ISO 228	ISO 228
Pipe Thread (Tapered + Parallel)	DIN EN 10226, ISO 7/1	DIN 2999, ISO 7/1
NPT-Thread	ANSI/ ASME B1.20.1	ASA B2.1
Coarse Thread	DIN 405	DIN 405
Tapered Thread (short)	DIN 3858	-

Whitworth Pipe Thread according to ISO 228 and DIN 2999

Thread acc. to ISO 228	Thread acc. to DIN 2999	Nominal \varnothing outside rounded (mm)	Bottom- \varnothing of thread female (mm)	Number of turns per inch = 25.4 mm
G 1/8	R 1/8	10	8.566	28
G 1/4	R 1/4	13	11.445	19
G 3/8	R 3/8	17	14.950	19
G 1/2	R 1/2	21	18.631	14
G 5/8	R 5/8	23	20.587	14
G 3/4	R 3/4	26	24.117	14
G 7/8	R 7/8	30	27.877	14
G 1	R 1	33	30.291	11
G 1 1/4	R 1 1/4	42	38.952	11
G 1 1/2	R 1 1/2	48	44.845	11
G 2	R 2	60	56.656	11
G 2 1/2	R 2 1/2	75	72.226	11
G 3	R 3	88	84.926	11
G 4	R 4	113	110.072	11

Knuckle Thread DIN 405

Thread (Inch)	Nominal \varnothing outside rounded (mm)	Bottom \varnothing of thread f. (mm)	Number of turns per Inch=25.4 mm
Rd 24x1/8	24	21.14	8
Rd 32x1/8	32	29.14	8
Rd 38x1/8	38	35.14	8
Rd 46x1/6	46	42.19	6
Rd 55x1/6	55	51.19	6
Rd 62x1/6	62	58.19	6
Rd 75x1/6	75	71.19	6
Rd 90x1/6	90	86.19	6
Rd 105x1/4	105	99.28	4
Rd 150x1/4	150	144.28	4

American Taper Pipe Thread NPT (Abstract of ASA B2.1 - (1960)

Thread (Inch)	Bottom \varnothing outside rounded (mm)	Number of turns per Inch=25.4 mm
1/8	10.287	27
1/4	13.716	18
3/8	17.145	18
1/2	21.336	14
3/4	26.670	14
1	33.41	11 1/2
1 1/4	42.164	11 1/2
1 1/2	48.260	11 1/2
2	60.325	11 1/2

Conversion Tables

Measurements

We have standardised our data. This ensures an easier understanding and better overview of our product data.

Unless otherwise stated, our measurements relate to:

- Lengths, Diameters: Millimetre (mm)
- Weights: Gramm (g)

If you have any questions about our product data, please contact our competent sales team.

We reserve the right for technical modifications of our products prior information.

Pressure - Temperature Table Saturated Steam

bar	°C
1	119.0
2	132.8
3	142.8
4	150.9
5	157.9
6	164.0
7	169.5
8	174.4
9	178.9
10	183.1
11	187.1
12	190.7
13	194.2
14	197.4
15	200.4
16	203.4
17	206.2
18	208.8
19	211.4
20	213.9
30	234.6
40	250.6
50	263.9

Conversation Table bar – PSI

bar	PSI
10	145.0350
20	290.0700
30	435.1050
40	580.1400
50	725.1750
60	870.2100
70	1015.2450
80	1160.2800
90	1305.3150
100	1450.3500
1 bar = 14.5035 PSI	

PSI	bar
10	0.6890
20	1.3780
30	2.0670
40	2.7560
50	3.4450
60	4.1340
70	4.8230
80	5.5120
90	6.2010
100	6.8900
1 PSI = 0.0689 bar	

Length Units

Millimetre	Inch
1	0.0393701

Inch	Millimetre
1	25.4

Temperature

°Celsius	°Fahrenheit
1	33.8

°Fahrenheit	°Celsius
1	25.4



Miscellaneous



Delivery and Payment Terms



Alphabetical Item Code/
Index



RoHS Declaration/
REACH Directive



Green Company



Delivery and Payment Terms

For issuing work certificates we charge following costs:

Certificate according to DIN EN 10 204 (formerly DIN 50.049) 2.1: 20.– Euro; Certificate according to 2.2: 30.– Euro;

Certificate according to 3.1: according to expenditure.

All list prices without VAT.

Order:

An order is valid through our written confirmation. In case of delivery without written confirmation, the invoice is to be considered as order confirmation.

Validity of Offers:

Offers on our part without any specification of time limits automatically lose their validity after 30 days without any separate notification.

Delivery:

1. Deliveries are made according to Incoterms 2020.
2. Our prices are without engagement and are to be understood ex works Amberg / Germany, packing excluded plus statutory VAT. The shipment shall be made for the account of and at the risk of the customer.
3. Consignments for export are delivered according to individual agreements.
4. Invoices are issued according to the prices valid on the day of the order. Price increases during the year due to increased cost of raw materials are reserved.

Package:

1. Depending on quantity and destination packaging is made in cartons, containers, pallet boxes, loaned containers or boxes for sea transport.
2. Packaging material is charged at cost price and not taken back.

Payment:

1. Payments made within 14 days from date of invoice will be subject to a discount of 1 %.
2. Payments shall be made within 30 days net from the date of invoice.
3. For national orders below 50.00 Euro and international orders below 100.00 Euro there is a 10.00 Euro minimum quantity surcharge.
4. If the period allowed for payment should be exceeded, we are entitled to charge interest rates of a minimum of 3 % above the actual reference rate of EZB, without a notice of default being required.

Retention of Title:

1. All goods delivered remain our property (conditional goods) until all demands which either already exist or which come to exist have been settled, even if payment has been made against specifically identified claims.
2. In the case of current accounts, the reserved ownership serves as a security for the balance of our claims (current account reservation).
3. Repossession of the delivered goods on our part does not represent a withdrawal from the contract unless we have explicitly declared such a withdrawal in writing.
4. The customer is entitled to sell the delivered goods through normal business channels.
5. The customer assigns to us all claims against his buyer or against third parties up to the level of the final which may accrue to him as a result of the resale. They serve to the same extent as the conditional goods as security for our claims.
6. The customer is entitled to collect against these claims even after they have been assigned. Our authorization to collect against these claims ourselves is not hereby affected; nevertheless we agree not to collect the claims ourselves, as long as the customer correctly fulfils his duties of payment and does not fall into arrears.
7. Through the processing, incorporation or mixing of the conditional goods with other goods on the customer's part, a joint ownership in the new object shall accrue to us in proportion to the invoice value of the conditional goods as compared with the invoice value of the other goods used.
8. If the conditional goods are disposed together with other goods, the claims arising there from are assigned to us in proportion to the invoice value of the conditional goods as compared with the invoice of the other goods.
9. We agree to release the securities to which we are entitled at the buyer's request, to the extent that their value exceeds that of the claims to be secured, as far as these are not yet settled, by more than 20 %.

Time of Delivery:

1. The stated delivery time is given at our discretion and without engagement. When setting the delivery times we ensure that in all likelihood we are able to deliver the order at the given time at the latest.
2. Unless otherwise specifically agreed in writing, all information is non-binding.
3. We reserve the right to entirely or partially withdraw from the contract in case of unforeseen events or force majeure.

Objections:

1. Objections are only accepted within 8 days from receipt of goods and cannot be considered later on.
2. In case of legitimate objections we offer replacement free of charge within the statutory guarantee provisions. Consequential damage such as additional cost in terms of staff is not reimbursed.
3. All return deliveries are subject to advance notification and authorization in writing.
4. Ex works return shipments not caused by our fault are generally not accepted.
5. There is a restorage fee of 30 % of the net value of the goods, however, at least 50.00 Euro. Return shipments are only allowed for non-used products within a 12-month period following the delivery.
6. For return shipments due to our fault we arrange the shipment after customer information. Arising costs by unauthorized returns are generally not reimbursed.

Illustrations:

Serve only as a means for a better explanation and are therefore subject to modifications.

Product Modifications:

We reserve the right to modify our products without information in advance, to change technical features, design or spare parts.

Setting place and venue:

The place of performance for all obligations arising from the contractual relationship is Lüdecke's head office in 92224 Amberg. The sole place of jurisdiction for all disputes arising directly or indirectly from the contractual relationship shall be the local court Amberg. Solely the laws of the Federal Republic of Germany shall apply for these terms and conditions.

Order:

1. By placing the order the customer declares his agreement with the above terms of delivery and payment.
2. Secondary agreements are only valid if confirmed in writing.
3. Should individual provisions in these terms of delivery and payment be or become either wholly or partially inoperative or invalid, the parties of the contract are obliged to agree to a new provision which to the greatest extent fulfils the intention of the inoperative or invalid provision.
4. The validity of these terms of delivery and payment is not affected in case individual provisions are nullified or become invalid.

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RoHS Declaration

REACH Directive

RoHS Declaration of Conformity according to Directive 2011/65/EU

The **LUDECKE** GmbH declares that our products do not contain any substances as defined in Article 4 (1) in accordance with 2011/65/EU or the allowable maximum concentrations in homogeneous materials (Annex 2).

In our products made of steel, aluminum or copper, lead may be contained above the limit value.
These are covered by exceptions 6a) 6b) and 6c) according to RoHS Annex 3.

In addition, the extended list of prohibited substances, according to the Delegated Directive (EU) 2015/863, can be excluded as a content.

REACH Directive

The **LUDECKE** GmbH assures that all current information on REACH is known and that all applicable provisions in connection with this regulation are complied with.

In January 2021 an updated candidate list (status 19.01.2021) was published in accordance with Article 59 (1, 10) of Regulation (EC) No.1907/2006 (REACH). The new substances included in this list are not contained in our products above the approved limit value.

Furthermore applies:

We hereby comply with our duty to inform and point out that the substance lead / lead / EC No. 231-100-4 / CAS No. 7439-92-1 may be contained in our metallic components. As almost all our products are made of metallic raw materials such as brass, steel and stainless steel, it can be assumed that some of our products have a lead content of more than 0.1%, unless they are marked otherwise.

As the company's products are not intended for prolonged contact with the human body, it can be assumed that they are not harmful.

Please do not hesitate to contact us if you have any questions.

