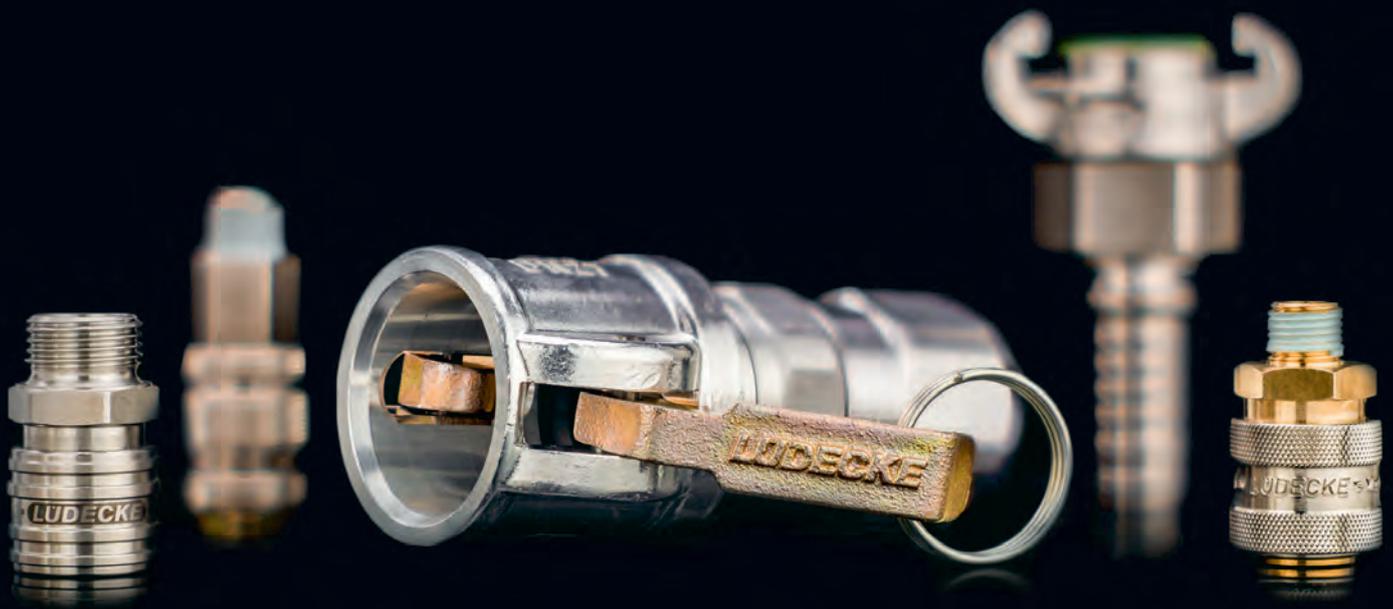


LÜDECKE

Since 1930. The perfect connection.



MADE IN GERMANY

MAIN CATALOGUE 2016 / 2017

Our competent and experienced sales team is supporting you from Monday to Friday. You may contact us via email or fax 24h 7 days a week. Furthermore, all information is available on www.luedecke.com.

Complete technical data sheets for all of our products can be submitted upon request.

Services and contacts



Lüdecke GmbH, Heinrich-Hauck-Str. 2, D-92224 Amberg



+49 9621 7682 0

Monday to Thursday: 7:30 am till 4:30 pm
Friday: 7:30 am till 1:30 pm



+49 9621 7682 99



info@luedecke.de



www.luedecke.de
www.luedecke.com

Quick and easy – search and find in our online flip-catalogue!



Dear Ladies and Gentlemen,

„Luedecke – The Perfect Connection“, our standing name for more than 85 years with our diverse and broad product range of coupling systems for various media and industrial applications.

All constructed and produced in our factory at the Amberg headquarters – Made in Germany is and remains our motto.

Therefore, we are currently expanding our production capacities significantly to enable us to continue to reliably supply our customers worldwide.

A new and active sales approach reflects our close proximity to you and the progression of our 3rd generation family business. It is our pleasure to also meet you on site to actively support you.

Being “the perfect connection” it is our self-conception to be a reliable, fair and long-term partner for our customers all over the world.

The new main catalogue 2016/17 illustrates in 372 pages a variety of established and new products which are clearly divided up according to application areas.

Luedecke and our complete performance spectrum – allow us to convince you.

We look forward to the pleasure of cooperating with you!

Sincerely yours,

Klaus Herdegen
Chief Executive Officer (CEO)





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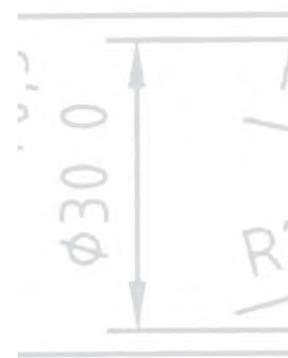
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by **LUDECKE**

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Tec**
by **LUDECKE**

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**Temp
Secure**
by **LUDECKE**

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**Snow
Master**
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LÜDECKE

LÜDECKE - The perfect connection.





LÜDECKE

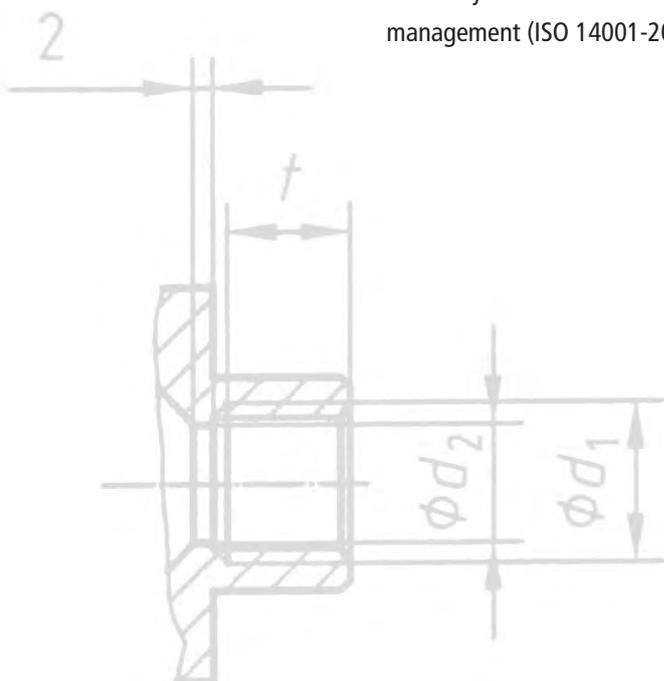
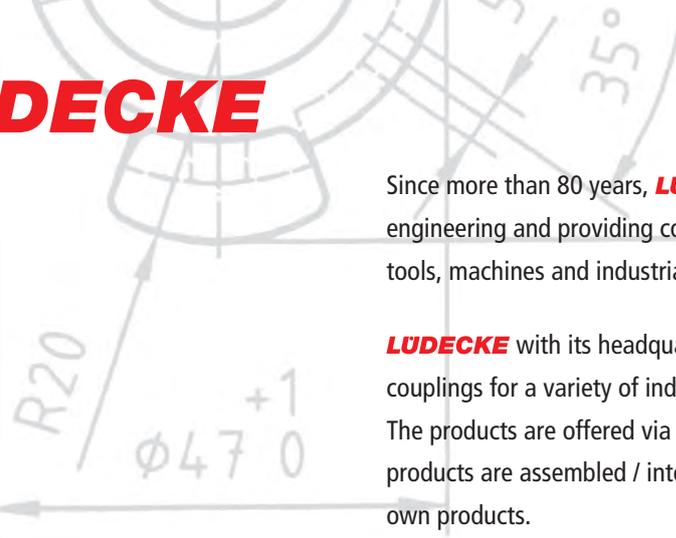
Since more than 80 years, **LÜDECKE** is the leading partner for developing, engineering and providing coupling systems to connect flexible fluid lines with tools, machines and industrial equipment.

LÜDECKE with its headquarters in Amberg, Bavaria manufactures fittings and couplings for a variety of industrial applications for gaseous and liquid medium. The products are offered via our certified technical partners worldwide. Or the products are assembled / integrated by leading machine manufacturers in their own products.

The product portfolio provides a comprehensive range of industrial and customized solutions - Engineered and Made in Germany.

LÜDECKE's quality management is accredited with ISO 9001-2008 since 1994, which also means that we permanently improve and revise the process of our company. Our quality standards exceed consequently the worldwide given requirements.

From July 2015 on **LÜDECKE** is also certified according to the environmental management (ISO 14001-2004) and energy management (ISO 50001-2011).



Our values – Our promise

Continuity in innovation through progression and flexibility

With the construction of today's worldwide used claw coupling for compressed air, the success story began in 1930 for the engineer, Emil Georg Lüdecke.

Today, **LUDECKE** manufactures over 20.000 products and performs as an experienced and competent partner for all kinds of coupling systems in the low-pressure range - Engineered and Made In Germany.



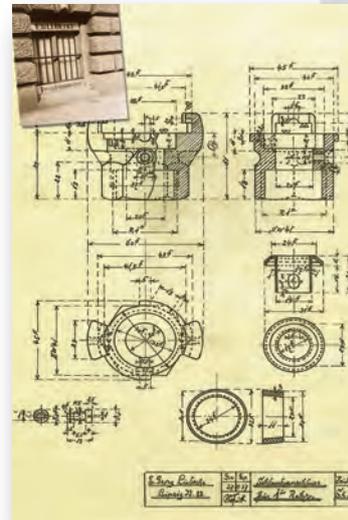
Emil Georg LÜDECKE
(1930–1973)
Founder of Lüdecke



Erwin Bogner
(1956 – 2015)
Holder



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



Technical drawing of a Claw Coupling
in the year 1937

1930: Founded in Leipzig by Emil Georg Lüdecke

1949: After destruction new beginning in Amberg

1969: Construction of the new Drahthammer factory

1995: Founding of **LUDECKE** Armaturen GmbH

2007: Construction of the new administration building

2013: Initial operation of the new completely automatised warehouse / logistic center

2015: Change of name to **LUDECKE** GmbH, beginning of the new construction (production hall), new sales structure



Our Ethical Values – The way we interact with people and our environment

LÜDECKE Long-term partner and quality supplier



Transparency, safety, fairness and long-term orientation



Energy efficiency and careful use of natural resources



Motivation, Support, training and health



Social commitment and social projects

Our responsibility towards our customers, employees, suppliers, partners and the society is our primary goal.

We guarantee transparency, security, fairness and sustainability to everybody involved.

To live our statement that it becomes a reality, we train our employees to work closely and fairly with our partners.

To guarantee all this, we have implemented a joint sustainable and transparent cooperation.

With all respect to our environment we highly appreciate all possible energy efficiency options and use natural resources as much as possible.

Our buildings are energetically optimized: We use 100% locally produced ecological electricity.

Also within our products, we constantly ensure sustainability in all levels. Result of such processes is the OptiFlow valve technology.

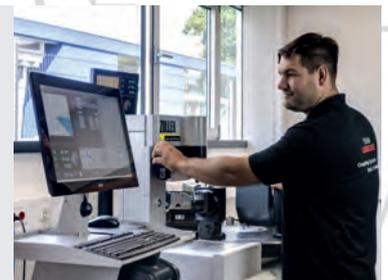
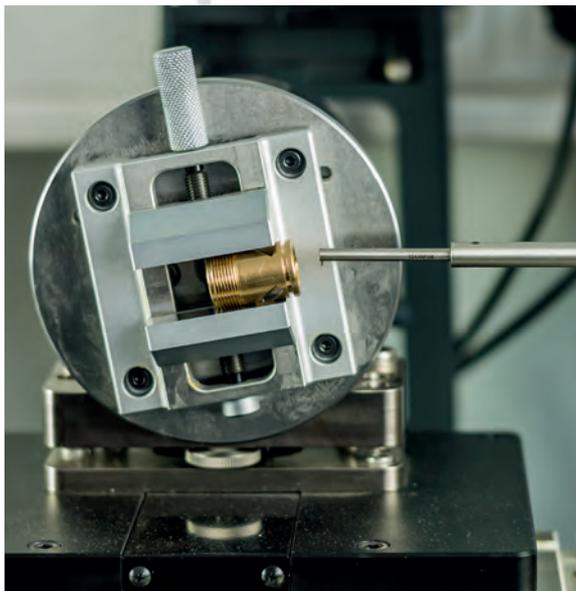


Since 1930 – Quality through Precision from Amberg.

Being able to produce competitively in Germany requires a high degree of optimized automation and processes.

To guarantee this continuously our employees use the latest mechanical technology and therefore ensure the highest quality.

From design engineering via CIM- production up to an automatic quality management – we guarantee a maximum of innovation, productivity, safety and customer service at all times.



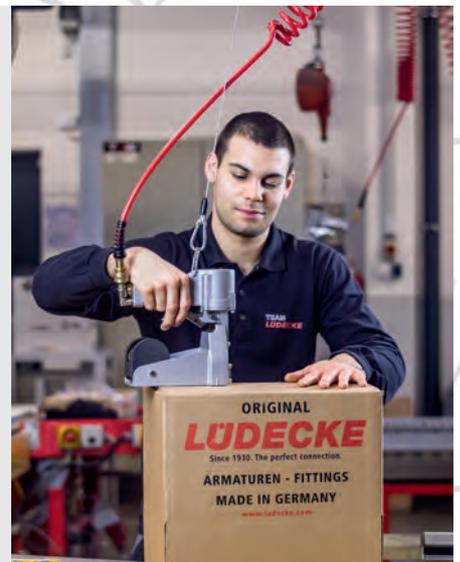
Our production shows a significant variety of CNC high-performance turning machines, CNC milling machines, CNC mechanical turning machines, CNC six spindle turning machines, multi spindle chucking automatics, part washes, electroplating plant, tool engineering, assembly lines, packing machines etc according to the latest technique.

A bar code system guarantees full traceability from the receipt of raw materials up to sales. An ongoing IT-supported supervision of all our production processes guarantees an ultimate level of quality.





Perfect Service Worldwide



Supported by latest IT technology in manufacturing, logistics and sales, we guarantee a quick, reliable best in class service for our 20.000 different products.

The fully automatic warehouse system is directly linked with our data systems to ensure a lean process up to the shipping department. This also allows a nearly zero failure rate and the ultimate flexibility in our delivery performance.

Furthermore we are driving various development processes to up grade our service level on a regular basis.

The **LUDECKE** - Sales Team

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Marketing

A successful company is committed to its partners. We actively support various marketing activities of our partners.

Additionally, we offer product trainings and support on site at the customer.

Our main catalogue including the brochures (Pneumatic, Moulding, Construction Industry, Water and Stainless Steel) offer a comprehensive overview of the **LUDECKE** product portfolio.

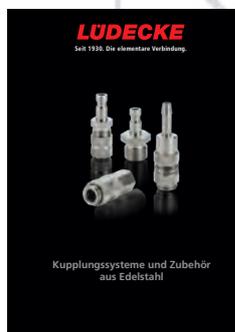
Furthermore we offer support in the sectors print and online, press, exhibition, sales promotion and advertising.

Of course, you can get all information in hard copy or as an online version as well as in German or English.

All information is available on www.ludecke.com. Complete technical data sheets for all of our products can be submitted upon request.



Print



Point of Sale - Advertising

Exhibition

Online



PRODUCTS

Pneumatic

Moulding

Construction Industry

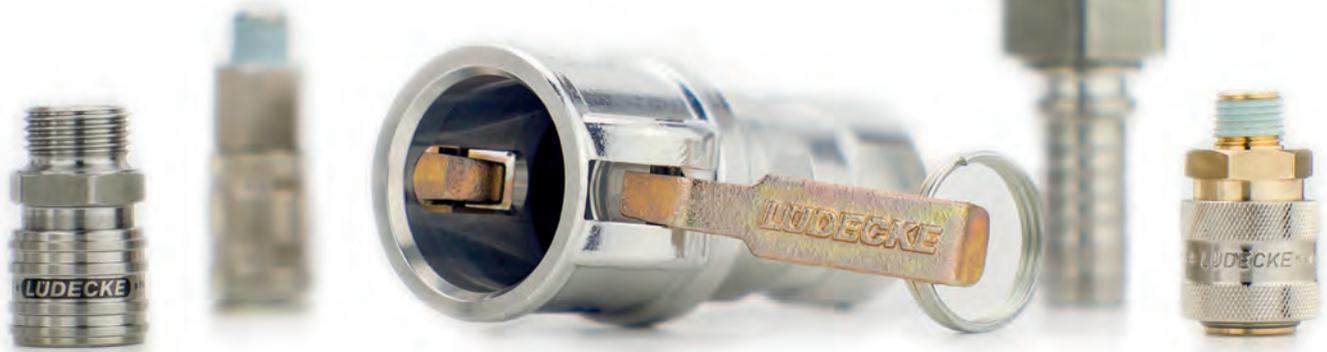
Water

Stainless Steel

Accessories



MADE IN GERMANY



The most comprehensive range of coupling systems and accessories – MADE IN GERMANY

We offer the widest range of high quality connectors for various applications and different media. We guarantee to find the right solution for every application within this comprehensive range of fittings, couplings, plug profiles and accessories.

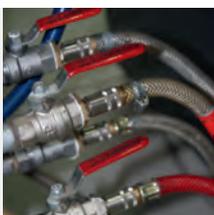


Pneumatic

We guarantee maximum technology in connecting tools and machines through premium couplings engineered and made in Germany.

Utmost performance characteristics are promised by the OptiFlow features of our valve technology in the individual product lines as well as through the use of efficient seals.

- European and International plug profiles
- Quality-Line, OptiFlow-Line and SafeConnect-Line



Moulding

The most comprehensive range of coupling systems for temperature-control applications in the plastics moulding industry. We guarantee 100% reliability by first class quality while connecting our products in the field of injection or die casting moulds.

- European and International plug profiles are offered in the widest range known in this industry, furthermore we offer also the original STÄUBLI Series RPL



Construction Industry

Robust and proven as reliable coupling systems over decades, for use in harsh environments. From the classic claw and mortar couplings through sandblast couplings up to throttle valves and hose clamps. Hose couplings and plugs in all nearly all known variations and profiles.



Water

Coupling systems for water supply to be used in the industry, crafts, gardening and landscaping and interchangeable with the market standard plug profile.

- WaterProfi Quick Connect Couplings and Claw Couplings as well as spray nozzles and wand nozzles
- Claw Couplings for drinking water and elevated hygienic requirements
- ALBA KRAPP hose reels and wall hose reels in various dimensions and length



Stainless Steel

Coupling systems for applications with specific hygiene standards or the operation with aggressive mediums.

- Couplings and fittings made of stainless steel in 1.4305 and 1.4404
- Wide product portfolio: Quick connect couplings and claw couplings as well as Industrial Couplings and Fittings.



New products

Here we present you an overview of our most important new products in the pneumatic, moulding, water and stainless steel product range.

Pneumatic

OptiFlow-Line

Industrial Quick Connect Couplings Series ESACG, DN 10

- Robust one-hand operation quick connect couplings for compressed air and liquid media
- Highest flow rate with low pressure drop for large tools resp. for applications with high-volume flow rate combined with one-hand operation



(©Page 81)

Industrial Quick Connect Couplings ORION/ ARO, Series ESOIG, DN 9

- High-quality, extreme robust one-hand operation quick connect coupling with international plug profile
- Interchangeable with ARO 210 and ORION 44510



(©Page 75)

SafeConnect-Line

Breathing Air Couplings ES11A and ES12A, DN 7.4

- High-quality, quick connect couplings
- Disconnect protection by safety function
- 2 versions to prevent misconnection to the wrong port



(©Page 60/61)

Compressed Air Blow-off Guns made of thermoplastic compounds

- Blow-off Gun of robust, scratch-proofed, isolating and nonslip composite material
- Blow-off Gun with long blow-off nozzle or with OSHA nozzle and venturi effect



(©Page 96)



Moulding

(©Page 126/127)



TempSecure® a temperature control quick connect coupling system with an automatic locking mechanism

- One-hand operation quick connect couplings for temperature control applications with hot or cold water resp. tempered oil
- A guided groove within the locking sleeve prevents accidental or unintended disconnection
- Simple and intuitive handling

Original Stäubli temperature control quick connect coupling system

- Available in three nominal diameters: RPL 06, 08 and 12
- Safe and easy to control locking process, optimized connection and disconnection, easy maintenance through external sealing
- Different coloured rings enable an easy marking of the circuits



(©Page 156-165)

Water

WaterProfi Quick Connect Couplings with large flow rate - Series WL, DN 10

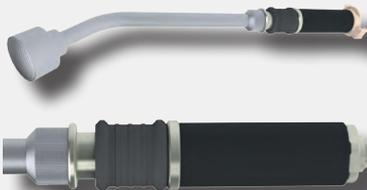


(©Page 238)

- Quick connect couplings made of brass MS 58 to supply water for industry, crafts, gardening and landscaping
- Dedicated big throughput and high flow rate
- Easy to connect, robust, best sealing features and durable
- Interchangeable with the market standard plug profile

WaterProfi Wand Nozzle

- Light weight and extremely durable spraying unit in various sizes
- Comfortable and easy watering of large areas
- Modular design of the spraying nozzle: enables best flexibility with a variety of interchangeable nozzles and connections
- Ergonomic handle design and infinitely regulation of flow



(©Page 240/241)

Stainless Steel – completed range up to DN19



(©Page 292-297)

OptiFlow-Quick Connect Coupling of stainless steel Series ESIE DN 7.8 Series ESIGE DN 10 und Series ESGE DN 19

- One-hand operation quick connect couplings of stainless steel 1.4305 or 1.4404
- Optimized flow rate with low pressure drop by **OptiFlow** valve technology
- Various applications for gaseous and fluid mediums in plant engineering, fluid and control technology in pharmacy, food & beverage industry, medical and generally in areas with heightened hygienic requirements

WaterProfi quick connect couplings of stainless steel series WSE

- Quick connect couplings of stainless steel 1.4305 to connect water for applications with specific hygiene requirements
- Easy to connect, robust, best sealing features and highly durable
- Flat sleeve contour for the prevention of dirt accumulation
- Interchangeable with the standard plug profile



(©Page 239/331)

LÜDECKE

PNEUMATIC



**Opti
Flow**
by **LÜDECKE**

Quick Connect Couplings with Standard plug profiles

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Quick Connect Couplings with International /other Plug Profiles

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A superior product range for compressed air

Quick Connect Couplings with Standard plug profiles



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 way to work with compressed air is the base for every industrial company.

An ideal solution offers the original **LUDECKE** Quick Connect Coupling System for compressed air applications and pneumatics. It guarantees a quick, easy to use and safe connection and disconnection of tools, machines and hoses with high efficiency.

To ensure the highest possible flexibility, the **LUDECKE** pneumatic range includes Quick Connect Coupling systems with European and International plug profiles. Within this comprehensive spectrum of Quick Connect Couplings and plugs we offer a solution for all applications.

Connecting within seconds!



Single Shut-off:
To connect simply push the plug into the coupling

To disconnect pull back the sleeve of the coupling (automatically disconnected)



Each application area is confronted with various challenges and sets priorities in accordance with the individual requirements. To comply to all applications, **LUDECKE** offers three different lines of Quick Connect Coupling Systems with standard plug profiles.

Quality-Line

Quick Connect Couplings



OptiFlow-Line

Energetically optimized Quick Connect Coupling Systems



SafeConnect-Line

Quick Connect Coupling Systems with automatic ventilation and/ or release protection as well as plug and colour coding



For more information on Quality-Line, OptiFlow-Line and SafeConnect-Line see page 24 – 65.

Quick Connect Couplings with International / other plug profiles



Diverse international plug profiles have been created. To ensure the greatest possible compatibility and enable worldwide use, the **LUDECKE** product range contains the most common profile types.

For a comprehensive overview of international plug profiles see page 66 until 83.

Quick Connect Couplings of brass/steel with Standard plug profiles

The perfect system for every application

Coupling systems with European plug profiles are available from DN 2.7 to DN 19 for the required flow volume.

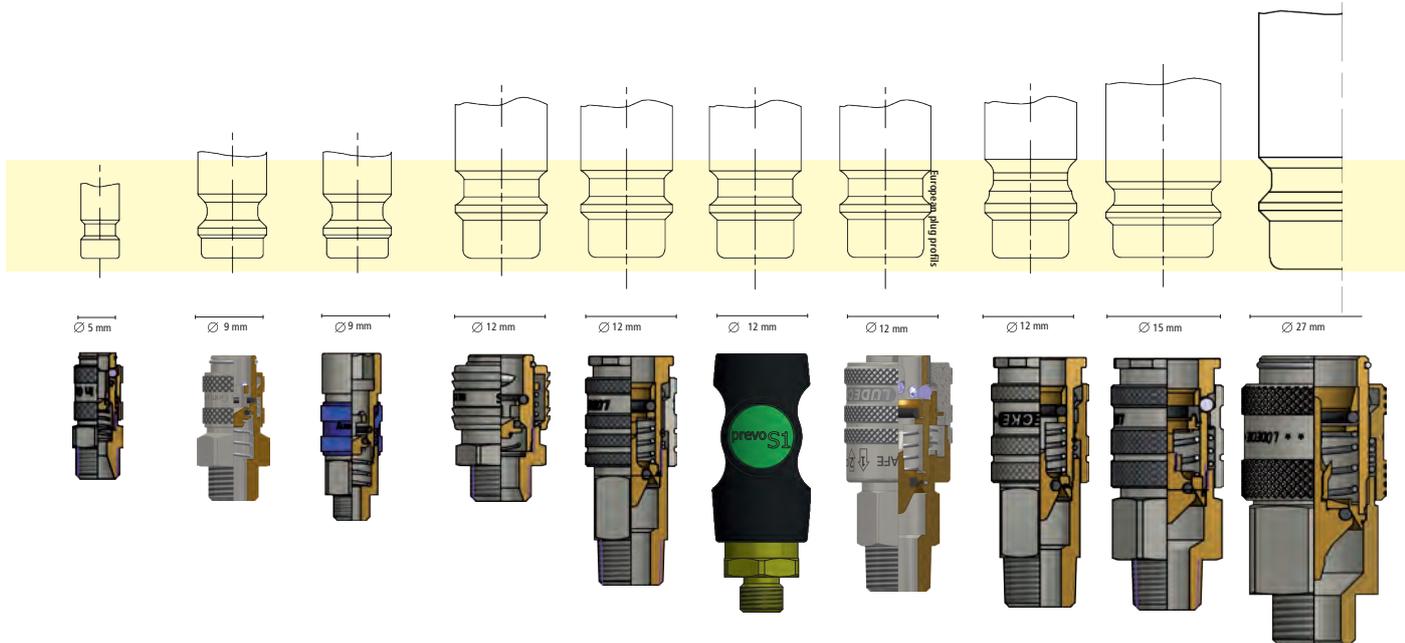
These systems are operated with one-hand function, and offered in single shut-off, double shut-off or non-valved versions.

Below, important information on materials, pressures, temperature, thread connections and flow rates of the **Quality-**, **OptiFlow-** and **SafeConnect-Line**.

ESMC	ESM	ESMK	ES	ESI	ESPN	ESIS	ESI1A/2A	ESIG	ESG
DN 2.7	DN 5	DN 5	DN 7.2	DN 7.8	DN 7.4	DN 7.8	DN 7.4	DN 10	DN 19

Series:

Overview of the plug profiles

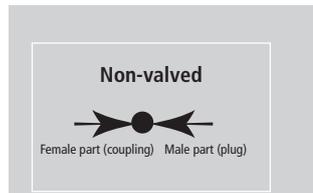


	ESMC	ESM	ESMK	ES	ESI	ESPN	ESIS	ESI1A/2A	ESIG	ESG
Materials:										
Body, Sleeves, Valve Body, Valves:	MS 58 nickel-plated	MS 58 brass blank or nickel-plated	MS 58 sleeve Aluminium anodized	MS 58 brass blank or nickel-plated	MS 58 nickel-plated sleeve hardened steel, nickel-plated	Fiber composite material (body) steel zinc plated	MS 58 nickel-plated sleeve hardened steel, nickel-plated	MS 58 nickel-plated	MS 58 nickel-plated sleeve hardened steel, nickel-plated	MS 58 brass blank or nickel-plated
Springs, Retaining Ring:	S/S* 1.4310	S/S* 1.4310	S/S* 1.4310	S/S* 1.4310	S/S* 1.4310	S/S*	S/S* 1.4310	S/S* 1.4310	S/S* 1.4310	S/S* 1.4310
Balls:	S/S* 1.3541	S/S* 1.3541	S/S* 1.3541	-	S/S* 1.4034	S/S*	S/S* 1.4034	S/S* 1.4034	S/S* 1.4034	S/S* 1.4034
Pins:	-	-	-	S/S* 1.4305	-	-	-	-	-	-
Seals:	NBR	NBR	NBR	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	EPDM, FKM, FFKM	EPDM, FKM	EPDM, FKM, FFKM
Plug:	MS 58 nickel-plated	MS 58 blank/n.p. or steel zinc plated	MS 58 with anodized aluminium ring marking PN 35 bar	MS 58 blank/n.p. or steel zinc plated	hardened steel and nickel-plated	hardened steel and nickel-plated	hardened steel and nickel-plated	MS 58 nickel-plated	hardened steel and nickel-plated	MS 58 blank nickel-plated
Max. Working Pressure:	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 12 bar	PN 12 bar	PN 35 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	-15° C - +70° 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	ISO 228/DIN 2999/ DIN 13	ISO 228/DIN 2999	ISO 228	ISO 228/DIN 2999	ISO 228/DIN 2999	ISO 228/DIN 2999	ISO 228
Flow Rate l/min.: at 6 bar [ü] and 0,5 bar pressure drop	165 l/min.	510 l/min.	430 l/min.	1000 l/min.	2000 l/min.	1650 l/min.	1700 l/min.	1800 l/min.	2150 l/min.	8000 l/min.
Shut-Off:	Single/Double/ Straight Through	Single/Double/ Straight Through/ dripless	Single	Single/Double/ Straight Through	Single/Double/ Straight Through	Single	Single	Single	Single/Double/ Straight Through	Single/Double

Valve Designs

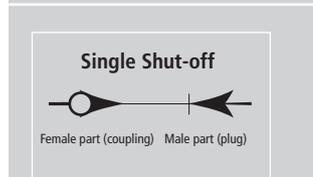
For each application the optimum solution

The Quick Connect Couplings with standard plug profiles offer three valve variations.



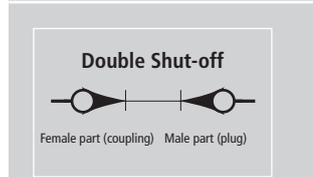
Non-valved coupling systems have no valve – neither within the coupling nor within the plug. Thus, a maximum flow is guaranteed and the problem of an additional pressure drop can be

eliminated by using non-valved coupling systems. Still, during disconnection a leakage of the medium from the coupling and plug line occurs.



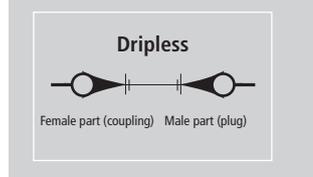
Single shut-off coupling systems are characterized by a non-valved plug nipple (on the male part) and a valve construction on the

female part that stops the flow immediately after the disconnection. However, a media leakage from the plug line is possible.



Double shut-off coupling systems are valved on both sides (male/female). This means, while both ends are locked during the

process of disconnection, no leakage appears after the disconnection of coupling and plug. Thus, the medium stays within the line.

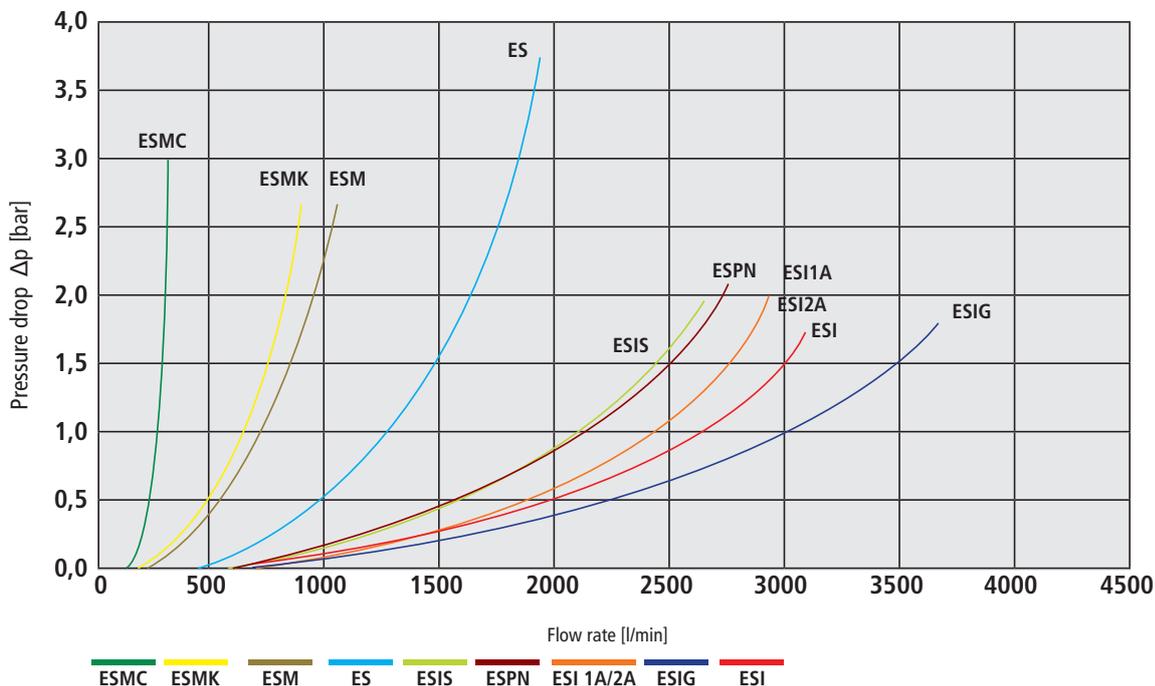


With the use of a shut-off standard plug, the valve technology of this coupling type makes sure that during the disconnection process only a minimal film of the medium from the coupling or rather

from the plug can leak out (no drop formation). Furthermore, it prevents the air from getting caught in the air duct system during the coupling process.

Flow Chart

To visualize and compare the flow rates of our different coupling systems, we combined the characteristic curves in the following diagram.





Quality-Line

Coupling Systems for compressed air applications



LUDECKE offers with its **Quality-Line** a coupling portfolio, in various dimensions, which covers all kinds of applications.

It is also a premium quality range - especially easy, quick and safe handling.

3 nominal diameters:



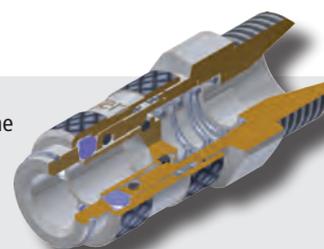
All sizes of **LUDECKE Quality-Line** Quick Connect Coupling offer unrestricted flexibility.

Micro Quick Connect Coupling	Mini Quick Connect Coupling	Quick Connect Coupling
Series: ESMC DN 2.7	Series: ESM DN 5	Series: ES DN 7.2

Micro Quick Connect Couplings Series ESMC DN 2.7

Micro Quick Connect Couplings are designed with small dimensions and enable the usage even in the limited areas.

- Optimum flow capacity
- High-quality one-hand operation Quick Connect Couplings with smallest dimensions of brass MS 58 or nickel-plated
- On request, also with red or blue anodized aluminium sleeve
- Comply to application in areas of pneumatics, compressed air, measure and control technology
- Available in single shut-off or double shut-off to avoid leakage of the medium while disconnecting

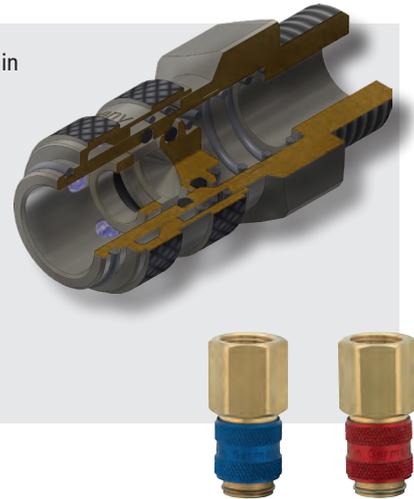




Mini Quick Connect Couplings Series ESM DN 5

The Mini Quick Connect Couplings offer a reduced dimension and are especially designed for the usage in restricted space conditions while maintaining superior flow rates.

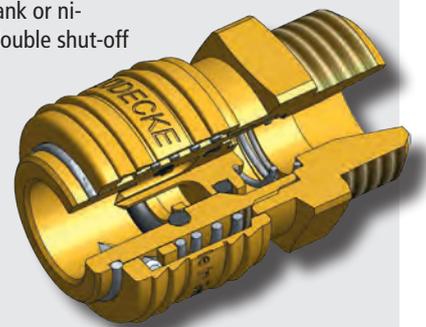
- Mini one-hand operation Quick Connect Couplings made of brass MS 58 (plain or nickel-plated)
- On request couplings available with coloured anodized sleeve of aluminium
- Comply to application in areas of pneumatics, compressed air, measure and control technology
- Available with single shut-off or double shut-off to avoid leakage of the media while disconnecting
- Available as dripless version



Quick Connect Couplings Series ES DN 7.2 - The original: safe, efficient, robust and reliable!

The Series ES DN 7.2 stands for the one-hand operation Quick Connect Coupling of brass MS 58 (blank or nickel-plated). This Series is available in single shut-off, non-valved for an optimized flow rate, and a double shut-off to avoid leakage of the medium while disconnecting.

- Low connection force
- Sleeve shape to avoid contamination of the coupling mechanics
- New hose barb design for safe hose fit and easy assembly
- To supply compressed air for industries, crafts sector and hobbies as well as water and other media



How to operate **Quality-Line**

Standard, Mini and Micro Quick Connect Couplings of our **Quality-Line** are operated in the concept of one-hand operation Quick Connect Couplings.



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

To disconnect release the sleeve (automatic locking mechanism) and hold the plug

Micro Quick-Connect Couplings

single shut-off Series ESMC

DN 2.7



- High quality couplings with smallest dimensions of brass nickel-plated
- Couplings on request also available with red or blue anodised aluminium sleeve or non-valved
- Multiple applications in pneumatic, measure, control and regulation technique

Materials

- Body, sleeve, valve body, valve: MS 58 nickel-plated brass
- Spring, retaining ring: stainless steel 1.4310; balls: stainless steel 1.3541
- O-rings: NBR
- Plugs: MS 58 nickel-plated

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-20°C – +100°C	ISO 228 / DIN 13	2.7	165 l/min	yes	single	air a.o.	Europe	10

Couplings with male thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
M 5	9	26	10	5	9	ESMC 5 A
G 1/8"	11	28	10	7	12	ESMC 18 A

Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
M 5	9	26	10	5	10	ESMC 5 I
G 1/8"	12	28	10	7	14	ESMC 18 I

Couplings with hose barb

Hose i.D.	l	d	Stem Length	Weight/pc. g	Type No.
3 mm	35	10	13	9	ESMC 3 T
4 mm	35	10	13	10	ESMC 4 T
5 mm	35	10	13	10	ESMC 5 T

For hose clips type ZOS (© page 106) or type HS (© page 107)

Couplings with plastic hose connection

For Hose	Hexagon	l	d	Weight/pc. g	Type No.
3 x 4 mm	9	33	10	15	ESMC 34 TQ
3 x 5 mm	9	33	10	15	ESMC 3 TQ
4 x 6 mm	9	32	10	15	ESMC 4 TQ

Couplings with nut and bulkhead screwing

For Hose	Hex.1	Hex.2	l	d	Thread	Thread Length	Weight/pc. g	Type No.
3 x 4 mm	12	11	45	10	M 7 x 0.5	17 mm	26	ESMC 34 TQSV
3 x 5 mm	12	11	45	10	M 7 x 0.5	17 mm	26	ESMC 35 TQSV
4 x 6 mm	12	12	45	10	M 8 x 0.5	17 mm	26	ESMC 4 TQSV

Coupling with hose barb and bulkhead screwing

Hose i. D.	Hex.1	Hex.2	l	d	Thread	Thread Length	Weight/pc. g	Type No.
3 mm	12	11	51	10	M 7 x 0.5	17 mm	24	ESMC 3 TSV
4 mm	12	11	51	10	M 7 x 0.5	17 mm	24	ESMC 4 TSV
5 mm	12	12	51	10	M 8 x 0.5	17 mm	24	ESMC 5 TSV

Coupling System ESMC also available with double shut-off.

When ordering just add -AB to the regular Type No.i.e ESMC 5 IAB or ESMC 18 NAAB.

Surcharge for coupling

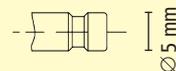
Surcharge for plugs



Micro Quick-Connect Couplings

Series ESMC single shut-off

DN2.7



Plug Profile (original size)

Plugs with male thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
M 5	7	18	5	10	3	ESMC 5 NA
G 1/8"	11	20	7	10	6	ESMC 18 NA

Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
M 5	7	17	5	10	3	ESMC 5 NI
G 1/8"	12	19	7	10	6	ESMC 18 NI

Plugs with hose barb

Hose i.D.	l	d	Stem Length	Plug Length	Weight/pc. g	Type No.
3 mm	24	7	13	10	2	ESMC 3 S
4 mm	24	7	13	10	3	ESMC 4 S
5 mm	24	9	13	10	3	ESMC 5 S

For hose clips type ZOS (© page 106), type HS (© page 107)

Plugs with plastic hose connection

For Hose	Hexagon	l	Plug Length	Weight/pc. g	Type No.
3 x 4 mm	8	25	10	12	ESMC 34 SQ
3 x 5 mm	8	25	10	12	ESMC 3 SQ
4 x 6 mm	8	25	10	12	ESMC 4 SQ

Plugs with nut and bulkhead screwing

For Hose	Hex.1	Hex.2	l	Thread	Thread Length	Weight/pc. g	Type No.
3 x 4 mm	12	11	38	M 7 x 0.5	17 mm	23	ESMC 34 SQSV
3 x 5 mm	12	11	38	M 7 x 0.5	17 mm	23	ESMC 35 SQSV
4 x 6 mm	12	12	38	M 8 x 0.5	17 mm	23	ESMC 4 SQSV

Plugs with hose barb and bulkhead screwing

Hose i.D.	Hex.1	Hex.2	l	Thread	Thread Length	Weight/pc. g	Type No.
3 mm	12	11	45	M 7 x 0.5	17 mm	21	ESMC 3 SSV
4 mm	12	11	45	M 7 x 0.5	17 mm	21	ESMC 4 SSV
5 mm	12	12	45	M 8 x 0.5	17 mm	21	ESMC 5 SSV

Special versions and versions in brass blank on request.



Mini Quick Connect Couplings

single shut-off Series ESM

DN5

- Miniature Couplings with small dimensions of brass or brass nickel-plated
- Multiple applications in pneumatic, compressed air lines, measure-, control- and regulation technique

Materials

- Body, sleeve, valve body, valve: MS 58 or M58 nickel-plated brass
- Spring, retaining ring: stainless steel 1.4310; balls: stainless steel 1.3541
- O-rings: NBR, on request EPDM, FKM or FFKM
- Plugs: MS 58 or steel zinc plated and yellow passivated (free of chrome VI)
- Coloured and anodized aluminium sleeves on request



Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-20°C – +100°C	ISO 228 / DIN 13	5	510 l/min	yes	single	air a.o.	Europe	10

Couplings with male thread



Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.n.plated	Type No. plain
G 1/8"	14	37	17	7	27	ESMN 18 A	ESM 18 A
G 1/4"	17	38	17	9	36	ESMN 14 A	ESM 14 A
G 3/8"	19	38	17	9	43	ESMN 38 A	ESM 38 A
M 10 x 1	14	37	17	7	35	ESMN 101 A	ESM 101 A
M 12 x 1.5	17	39	17	10	37	ESMN 121 A	ESM 121 A
M 14 x 1.5	17	39	17	10	37	ESMN 141 A	ESM 141 A

Male thread sealing with PVC-packing rings type HPD (☺ page 189)

Couplings with female thread



Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.n.plated	Type No. plain
G 1/8"	14	37	17	9	32	ESMN 18 I	ESM 18 I
G 1/4"	17	38	17	9	38	ESMN 14 I	ESM 14 I
G 3/8"	19	47	17	10.5	39	ESMN 38 I	ESM 38 I
M 10 x 1	14	38	17	9	36	ESMN 101 I	ESM 101 I
M 12 x 1.5	17	38	17	9	39	ESMN 121 I	ESM 121 I
M 14 x 1.5	17	38	17	9	37	ESMN 141 I	ESM 141 I

Couplings with hose barb



Hose i.D.	l	d	Stem Length	Weight/pc. g	Type No.n.plated	Type No. plain
4 mm	47	17	17	27	ESMN 4 T	ESM 4 T
5 mm	46	17	17	27	ESMN 5 T	ESM 5 T
6 mm	46	17	17	27	ESMN 6 T	ESM 6 T
8 mm	46	17	17	29	ESMN 8 T	ESM 8 T
9 mm	46	17	17	29	ESMN 9 T	ESM 9 T

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Couplings with squeeze nut, rigid and swivelling



For Hose	Hex.1	Hex.2	l	d	Version	Weight/pc. g	Type No n.plated	Type No. plain
3 x 5 mm	14	-	42	17	rigid	30	ESMN 35 TQ	ESM 35 TQ
4 x 6 mm	14	12	42	17	rigid	32	ESMN 4 TQ	ESM 4 TQ
4 x 6 mm	14	12	60	17	swivelling	40	ESMN 4 TQDR	ESM 4 TQDR
6 x 8 mm	14	14	42	17	rigid	34	ESMN 6 TQ	ESM 6 TQ
6 x 8 mm	14	14	60	17	swivelling	42	ESMN 6 TQDR	ESM 6 TQDR

Couplings with squeeze nut and spring guard, rigid and swivelling



For Hose	Hex.1	Hex.2	l	d	Version	Weight/pc. g	Type No.n.plated	Type No. plain
3 x 5 mm	14	11	120	17	rigid	35	ESMN 35 TQF	ESM 35 TQF
4 x 6 mm	14	12	120	17	rigid	39	ESMN 4 TQF	ESM 4 TQF
4 x 6 mm	14	12	144	17	swivelling	48	ESMN 4 TQFDR	ESM 4 TQFDR
6 x 8 mm	14	14	120	17	rigid	44	ESMN 6 TQF	ESM 6 TQF
6 x 8 mm	14	14	144	17	swivelling	55	ESMN 6 TQFDR	ESM 6 TQFDR

Special versions on request.

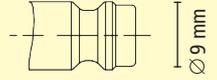
Mini Quick Connect Couplings

Series ESM single shut-off



- All couplings also available non-valved with a surcharge simply add on standard type number the affix -O- (i.e. ESM 6 TO).
- Minimum quantity 50 pc/type!

DN5



Plug Profile (original size)

Bulkhead couplings

Hose i.D.	Hex.1	Hex.2	l	d	Stem Length	Thread	Thread Length	b	Weight/pc. g	Type No.
4 mm	14	14	60	17	17	M 10 x 1	14	4	40	ESM 4 TSV
6 mm	17	17	60	17	17	M 12 x 1	14	4	45	ESM 6 TSV
9 mm	17	19	60	17	17	M 12 x 1	14	4	47	ESM 9 TSV

For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)



Plugs with male thread

Thread	Hexagon I	Thread L	Plug L	Material	Weight/pc. g	Type No.n.plated	Type No.plain
G 1/8"	13	25	7	MS 58	11	ESMN 18 NA	ESM 18 NA
G 1/4"	17	27.5	9	MS 58	18	ESMN 14 NA	ESM 14 NA
G 3/8"	19	27.5	9	MS 58	21	ESMN 38 NA	ESM 38 NA
M 10 x 1	13	26	8	MS 58	11	ESMN 101 NA	ESM 101 NA
M 12 x 1,5	17	28.5	10	MS 58	18	ESMN 121 NA	ESM 121 NA
M 14 x 1,5	17	28.5	10	MS 58	19	ESMN 141 NA	ESM 141 NA
G 1/8"	13	25	7	steel	10		ESM 18 NAS
G 1/4"	17	27.5	9	steel	16		ESM 14 NAS

Male thread sealing with PVC-packing rings type HPD (© page 189)



Plugs with female thread

Thread	Hexagon I	Thread L	Plug L	Material	Weight/pc. g	Type No.n.plated	Type No.plain
G 1/8"	13	25	9	MS 58	12	ESMN 18 NI	ESM 18 NI
G 1/4"	17	26	10	MS 58	18	ESMN 14 NI	ESM 14 NI
G 3/8"	19	26.5	10.5	MS 58	22	ESMN 38 NI	ESM 38 NI
M 6	12	22.5	8	MS 58	11	ESMN 6 NI	ESM 6 NI
M 8	12	24	10	MS 58	11	ESMN 8 NI	ESM 8 NI
M 10 x 1	13	22.5	7	MS 58	10	ESMN 101 NI	ESM 101 NI
M 12 x 1,5	17	25	9	MS 58	19	ESMN 121 NI	ESM 121 NI
M 14 x 1,5	17	25	9	MS 58	17	ESMN 141 NI	ESM 141 NI
G 1/8"	13	25	9	steel	11		ESM 18 NIS
G 1/4"	17	26	10	steel	17		ESM 14 NIS



Plugs with hose barb

Hose i.D.	l	d	Stem Length	Plug L.	Material	Weight/pc. g	Type No.n.plated	Type No.plain
4 mm	32	9	16.5	13.5	MS 58	7	ESMN 4 S	ESM 4 S
5 mm	32	12	16.5	13.5	MS 58	8	ESMN 5 S	ESM 5 S
6 mm	32	12	16.5	13.5	MS 58	8	ESMN 6 S	ESM 6 S
8 mm	32	12	16.5	13.5	MS 58	12	ESMN 8 S	ESM 8 S
9 mm	38	12	23	13.5	MS 58	11	ESMN 9 S	ESM 9 S
4 mm	32	9	16.5	13.5	steel	6		ESM 4 SS
6 mm	32	12	16.5	13.5	steel	7		ESM 6 SS

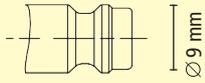
For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)



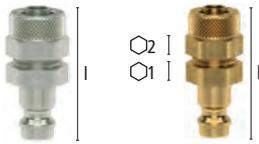
Mini Quick Connect Couplings

single shut-off **Series ESM**

DN5



Plug Profile (original size)



Plugs with plastic hose connection

for Hose i.	D	Hex.1	Hex.2	I	Plug L.	Material	Weight/pc. g	Type No. n.plated	Type No.plain
3 x 5 mm	12	-	32	13.5	MS 58	14	ESMN 35 SQ	ESM 35 SQ	
4 x 6 mm	12	12	32	13.5	MS 58	16	ESMN 4 SQ	ESM 4 SQ	
6 x 8 mm	14	14	32	13.5	MS 58	23	ESMN 6 SQ	ESM 6 SQ	

Plugs with squeeze nut and spring guard

for Hose i.	D	Hex.1	Hex.2	I	Plug L.	Material	Weight/pc. g	Type No. n.plated	Type No.plain
3 x 5 mm	12	11	110	13.5	MS 58	24	ESMN 35 SQF	ESM 35 SQF	
4 x 6 mm	12	12	110	13.5	MS 58	26	ESMN 4 SQF	ESM 4 SQF	
6 x 8 mm	14	14	110	13.5	MS 58	29	ESMN 6 SQF	ESM 6 SQF	

Bulkhead plugs

for Hose i.	D	Hex.1	Hex.2	I	Stem Length	Thread	Thread Length	b	Weight/pc. g	Type No.
4 mm	14	14	50	17	M 10 x 1	14	4	20	ESM 4 SSV	
6 mm	14	17	50	17	M 12 x 1	14	4	25	ESM 6 SSV	
9 mm	17	19	50	17	M 12 x 1	14	4	30	ESM 9 SSV	

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Recoil eliminator for all plug types to avoid the
 "whip-lash-effect" during disconnection by controlled
 automatic air-relief of the hose line available on request!

Mini Quick Connect Couplings

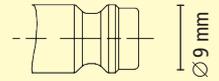
Series ESM double shut-off

DN5

- Mini Quick Connect Couplings of brass MS 58
- Double shut-off to avoid leakage of medium during disconnection. Robust, safe and reliable
- **Attention: Couplings can be connected with non-valved plugs DN 5, valved plugs cannot be connected with single shut-off couplings DN 5!**
- Several fields of application, above all for liquid mediums in construction, control technology switchboard cooling etc.

Materials

- Body, sleeves, valve body, valves, plugs: brass MS 58
- Spring, retaining rings: stainless steel 1.4310; balls: stainless steel 1.3541
- O-rings: NBR, extra charge for sealing rings of EPDM 0.38 Euro, FKM



Plug Profile (original size)

Max. Working Pressure	Temperature	Thread	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-20°C – +100°C	ISO 228 / DIN 13	5	330 l/min	yes	double	divers	Europe	10

Couplings with male thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/8"	14	37	17	7	27	ESM 18 AAB
G 1/4"	17	38	17	9	36	ESM 14 AAB
G 3/8"	19	38	17	9	43	ESM 38 AAB
M 10 x 1	14	37	17	7	35	ESM 101 AAB
M 12 x 1.5	17	39	17	10	37	ESM 121 AAB
M 14 x 1.5	17	39	17	10	37	ESM 141 AAB

Male thread sealing with PVC-packing rings type HPD (☺ page 189)



Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/8"	14	37	17	9	32	ESM 18 IAB
G 1/4"	17	38	17	9	38	ESM 14 IAB
G 3/8"	19	47	17	10.5	39	ESM 38 IAB
M 10 x 1	14	38	17	9	34	ESM 101 IAB
M 12 x 1.5	17	38	17	9	39	ESM 121 IAB
M 14 x 1.5	17	38	17	9	37	ESM 141 IAB



Couplings with hose barb

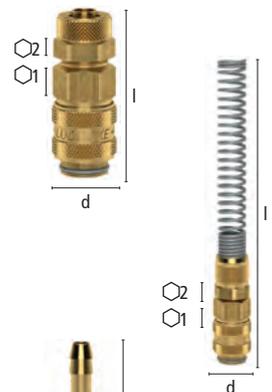
Hose i. D.	l	d	Stem Length	Weight/pc. g	Type No.
4 mm	47	17	17	27	ESM 4 TAB
5 mm	46	17	17	27	ESM 5 TAB
6 mm	46	17	17	27	ESM 6 TAB
8 mm	46	17	17	29	ESM 8 TAB
9 mm	46	17	17	29	ESM 9 TAB

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Couplings with plastic hose connection

for hose	Hex.1	Hex.2	l	d	Weight/pc. g	Type No.
4 x 6 mm	14	12	42	17	32	ESM 4 TQAB
6 x 8 mm	14	14	42	17	34	ESM 6 TQAB



Couplings nut and spring guard

for hose	Hex.1	Hex.2	l	d	Weight/pc. g	Type No.
4 x 6 mm	14	12	120	17	39	ESM 4 TQFAB
6 x 8 mm	14	14	120	17	44	ESM 6 TQFAB

Bulkhead Couplings

Hose i. D.	Hex.1	Hex.2	l	d	Stem length	Thread	T.length	b	Weight/pc. g	Type No.
4 mm	14	14	60	17	17	M 10 x 1	14	4	40	ESM 4 TSVAB
6 mm	17	17	60	17	17	M 12 x 1	14	4	45	ESM 6 TSVAB
9 mm	17	19	60	17	17	M 12 x 1	14	4	47	ESM 9 TSVAB

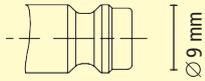
For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Mini Quick Connect Couplings

double shut-off **Series ESM**

DN5



Plug Profile (original size)



Plugs with male thread

Thread	Hexagon	I	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	13	40	7	13.5	26	ESM 18 NAAB
G 1/4"	17	42	9	13.5	35	ESM 14 NAAB
G 3/8"	19	42	9	13.5	42	ESM 38 NAAB
M 12 x 1.5	17	44	10	13.5	35	ESM 121 NAAB
M 14 x 1.5	17	44	10	13.5	36	ESM 141 NAAB

Male thread sealing with PVC-packing rings type HPD (☺ page 189)

Plugs with female thread

Thread	Hexagon	I	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	13	42	9	13.5	28	ESM 18 NIAB
G 1/4"	17	42	10	13.5	38	ESM 14 NIAB
G 3/8"	19	43.5	10.5	13.5	38	ESM 38 NIAB
M 12 x 1.5	17	42	9	13.5	37	ESM 121 NIAB
M 14 x 1.5	17	42	9	13.5	38	ESM 141 NIAB

Plugs with hose barb

For hose	I	d	Stem Length	Plug Length	Weight/pc. g	Type No.
4 mm	50	9	17	13.5	23	ESM 4 SAB
6 mm	50	12	17	13.5	23	ESM 6 SAB
8 mm	50	12	17	13.5	25	ESM 8 SAB
9 mm	50	12	17	13.5	25	ESM 9 SAB

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Plugs with plastic hose connection

For hose	Hex.1	Hex.2	I	Plug Length	Weight/pc. g	Type No.
4 x 6 mm	14	12	47	13.5	32	ESM 4 SQAB
6 x 8 mm	14	14	47	13.5	32	ESM 6 SQAB

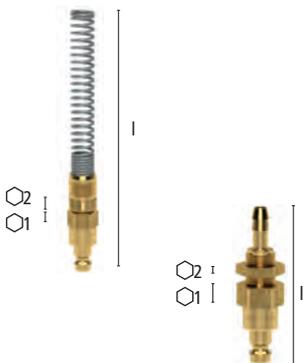
Plugs with nut and spring guard

For hose	Hex.1	Hex.1	I	Plug Length	Weight/pc. g	Type No.
4 x 6 mm	14	12	135	13.5	40	ESM 4 SQFAB
6 x 8 mm	14	14	135	13.5	42	ESM 6 SQFAB

Bulkhead plugs

Hose i. D.	Hex.1	Hex.2	I	Stem Length	Thread	Thread Length	b	Weight/pc. g	Type No.
4 mm	14	14	64	17	M 10 x 1	14	4	45	ESM 4 SSVAB
6 mm	14	17	64	17	M 12 x 1	14	4	45	ESM 6 SSVAB
9 mm	14	19	64	17	M 12 x 1	14	4	45	ESM 9 SSVAB

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Mini Quick Connect Couplings

dripless version Series ESMLA

DN5

- Mini Quick Connect Couplings made of brass MS 58 nickel or nickel-plated
- No leaking, dripless version (liquid film, no drop) during the connecting process
- To avoid contamination and damages during fluid transportation, Only to be used with valved plugs
- Various fields of application, mainly to be used with liquid and aggressive mediums, motion and control technology, cooling on / for electrical components and CPUs.

Materials

- Body, sleeves, valve body, valves, plugs: brass MS 58
- Spring, retaining rings: stainless steel 1.4310; balls: stainless steel 1.3541
- O-rings: NBR (EPDM and FKM on demand)

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 8 bar	-20°C – +100°C	ISO 228	5	see flow chart	yes	double	divers	Europe	10

Couplings with male thread

Thread	Hex. 1	Hex. 2	d	Thread Length	Weight/pc. g	Type No. n.plated	Type No. plain
G 1/8"	14	37	16.5	7	27	ESMNL A 18 A	ESMLA 18 A
G 1/4"	17	38	16.5	9	36	ESMNL A 14 A	ESMLA 14 A
G 3/8"	19	38	16.5	9	43	ESMNL A 38 A	ESMLA 38 A

Couplings with female thread

Thread	Hex. 1	Hex. 2	d	Thread Length	Weight/pc. g	Type No. n.plated	Type No. plain
G 1/8"	14	37	16.5	9	32	ESMNL A 18 I	ESMLA 18 I
G 1/4"	17	38	16.5	9	38	ESMNL A 14 I	ESMLA 14 I
G 3/8"	19	47	16.5	10.5	39	ESMNL A 38 I	ESMLA 38 I

Couplings with hose barb

Hose i.D.	l	d	Stem Length	Weight/pc. g	Type No. n.plated	Type No. plain
4 mm	47	16.5	17	27	ESMNL A 4 T	ESMLA 4 T
5 mm	46	16.5	17	27	ESMNL A 5 T	ESMLA 5 T
6 mm	46	16.5	17	27	ESMNL A 6 T	ESMLA 6 T
8 mm	46	16.5	17	29	ESMNL A 8 T	ESMLA 8 T
9 mm	46	16.5	17	29	ESMNL A 9 T	ESMLA 9 T

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Couplings with hose connection

for Hose	Hex. 1	Hex. 2	l	d	Weight/pc. g	Type No. n.plated	Type No. plain
4 x 6 mm	14	12	42	16.5	32	ESMNL A 4 TQ	ESMLA 4 TQ
6 x 8 mm	14	14	42	16.5	34	ESMNL A 6 TQ	ESMLA 6 TQ

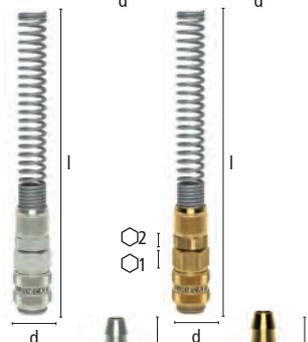
Couplings nut and spring guard

for Hose	Hex. 1	Hex. 2	l	d	Weight/pc. g	Type No. n.plated	Type No. plain
4 x 6 mm	14	12	120	16.5	39	ESMNL A 4 TQF	ESMLA 4 TQF
6 x 8 mm	14	14	120	16.5	44	ESMNL A 6 TQF	ESMLA 6 TQF

Bulkhead Couplings

Hose i.D.	Hex. 1	Hex. 2	l	d	Stem L.	Gew.	Gew.l. b	Weight/pc. g	Type No. n.plated	Type No. plain	
4 mm	14	14	60	16.5	17	M 10 x 1	14	4	40	ESMNL A 4 TSV	ESMLA 4 TSV
6 mm	17	17	60	16.5	17	M 12 x 1	14	4	45	ESMNL A 6 TSV	ESMLA 6 TSV
9 mm	17	19	60	16.5	17	M 12 x 1	14	4	47	ESMNL A 9 TSV	ESMLA 9 TSV

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Quick Connect Couplings

Series ES single shut-off - The ORIGINAL

DN 7.2

- Quick Connect Couplings of brass or brass MS 58 nickel-plated
- New hose barb for safe fit of hose and easy assembly
- Sleeve design protects the coupling body from dirt
- **Application: For compressed air lines in industry, garages, construction. For water and other fluids**

Materials

- Body, sleeve, valve body, valve: MS 58, or MS 58 nickel-plated
- Spring, retaining rings: stainless steel 1.4310; pins: stainless steel 1.4305
- O-rings: NBR (EPDM and FKM on request)
- Plugs: MS 58 or steel zinc plated and yellow passivated (free of chrome VI)

Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Norm	Area	
PN 35 bar	-20°C – +100°C	air a.o.	7,2	ISO 228/DIN 2999/DIN 13	1000 l/min	yes	single	Eur. Standard	world-wide	10

Couplings with male thread



Thread	Hexag.	l	d	Thread Leng.	Weight/pc g	Type No. n.plated	Type No.plain
G 1/8"	22	38	27	7	70	ESN 18 A	ES 18 A
G 1/4"	22	40	27	9	73	ESN 14 A	ES 14 A
G 3/8"	22	41	27	9	76	ESN 38 A	ES 38 A
G 1/2"	24	41	27	10	87	ESN 12 A	ES 12 A
M 14 x 1,5	22	40	27	9	75	ESN 1415 A	ES 1415 A
M 16 x 1,5	22	40	27	9	75	ESN 1615 A	ES 1615 A
M 18 x 1,5	22	40	27	10	78	ESN 1815 A	ES 1815 A

Male thread sealing with PVC-packing rings type HPD (☺ page 189)

Couplings with male thread (tapered), Loctite-coated



Thread	Hexag.	l	d	Thread Leng.	Weight/pc g	Type No. n.plated	Type No.plain
R 1/4"	22	42	27	11	76		ES 14 AB
R 3/8"	22	44	27	12	79		ES 38 AB
G 1/2"	22	45	27	15	96		ES 12 AB

Couplings with female thread



Thread	Hexag.	l	d	Thread Leng.	Weight/pc g	Type No. n.plated	Type No.plain
G 1/8"	22	39	27	9	90	ESN 18 I	ES 18 I
G 1/4"	22	41	27	10.5	92	ESN 14 I	ES 14 I
G 3/8"	22	41	27	10.5	85	ESN 38 I	ES 38 I
G 1/2"	24	42.5	27	12	87	ESN 12 I	ES 12 I
G 3/4"	32	42.5	34	13	110	ESN 34 I	ES 34 I
M 14 x 1,5	22	41.5	27	11	90	ESN 1415 I	ES 1415 I
M 16 x 1,5	22	41.5	27	11	84	ESN 1615 I	ES 1615 I
M 18 x 1,5	22	41.5	27	12	80	ESN 1815 I	ES 1815 I

Couplings with hose barb



Hose i.D.	l	d	Stem Leng.	Weight/pc g	Type No. n.plated	Type No.plain
6 mm	55	27	25	64	ESN 6 T	ES 6 T
8 mm	55	27	25	67	ESN 8 T	ES 8 T
9 mm	55	27	25	68	ESN 9 T	ES 9 T
10 mm	58	27	28	70		ES 10 TH*
10 mm	55	27	25	70	ESN 10 T	ES 10 T
13 mm	58	27	28	75		ES 13 TH*
13 mm	55	27	25	75	ESN 13 T	ES 13 T

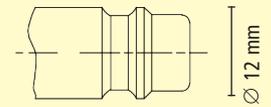
For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

*ES10TH and ES13TH for the use of various quick-fit hoses (e.g. Parker Push-Lock, Gates Lock-on)

Quick Connect Couplings

The ORIGINAL - single shut-off Series ES

DN7.2



Plug profile original size

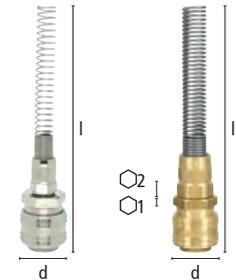
Couplings for plastic hose connection nut

For Hose	Hex.1	Hex.1	l	d	Weight/pc g	Type No. n.plated	Type No.plain
4 x 6 mm	22	12	44	27	73	ESN 4 TQ	ES 4 TQ
6 x 8 mm	22	14	44	27	78	ESN 6 TQ	ES 6 TQ
8 x 10 mm	22	17	48	27	83	ESN 8 TQ	ES 8 TQ
9 x 12 mm	22	17	48	27	85	ESN 9 TQ	ES 9 TQ



Couplings with squeeze nut and spring guard

For Hose	Hex.1	Hex.1	l	d	Weight/pc g	Type No. n.plated	Type No.plain
4 x 6 mm	22	12	130	27	85	ESN 4 TQF	ES 4 TQF
5 x 8 mm	22	14	130	27	88		ES 58 TQF
6 x 8 mm	22	14	130	27	90	ESN 6 TQF	ES 6 TQF
6.5 x 10 mm	22	17	130	27	95		ES 6510 TQF
8 x 10 mm	22	19	140	27	120	ESN 8 TQF	ES 8 TQF
8 x 12 mm	22	19	140	27	130		ES 812 TQF
9 x 12 mm	22	19	140	27	141	ESN 9 TQF	ES 9 TQF



Bulkhead couplings

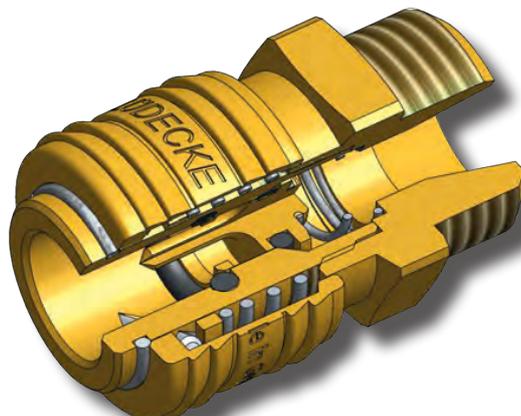
Hose i. D.	Hex.1	Hex.1	l	d	Stem Length	Thread	Thread Length	b	Type No.
6 mm	22	17	62	27	17	M 12 x 1	14	4	ES 6 TSV
8 mm	22	17	62	27	17	M 12 x 1	14	4	ES 8 TSV
10 mm	22	19	70	27	25	M 14 x 1	14	4	ES 10 TSV

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Extra charge for O-ring in : EPDM
FKM

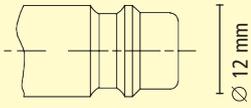
Special compounds on request.



Quick Connect Couplings

Series ES single shut-off - The ORIGINAL

DN 7.2



Plug profile original size

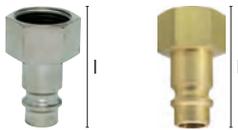


Plugs with male thread

Thread	Hex. I	Thread L.	Plug L.	Material	Weight/pc. g	Type No. n.plated	Type No. plain
G 1/8"	13 31	7	20	MS 58	17	ESN 18 NA	ES 18 NA
G 1/4"	17 33	9	20	MS 58	21	ESN 14 NA	ES 14 NA
G 3/8"	19 33	9	20	MS 58	26	ESN 38 NA	ES 38 NA
G 1/2"	24 35	10	20	MS 58	41	ESN 12 NA	ES 12 NA
M 14 x 1.5	17 33	9	20	MS 58	26		ES 1415 NA
M 16 x 1.5	19 33	9	20	MS 58	32		ES 1615 NA
M 18 x 1.5	22 34	10	20	MS 58	36		ES 1815 NA
G 1/8"	13 31	7	20	steel	15		ES 18 NAS
G 1/4"	17 33	9	20	steel	19		ES 14 NAS
G 3/8"	19 33	9	20	steel	24		ES 38 NAS
G 1/2"	24 36	10	20	steel	39		ES 12 NAS

Male thread sealing with PVC-packing rings type HPD (© page 189)

Plugs with female thread



Thread	Hex. I	Thread L.	Plug L.	Material	Weight/pc. g	Type No. n.plated	Type No. plain
G 1/8"	13 31	9	20	MS 58	16	ESN 18 NI	ES 18 NI
G 1/4"	17 33	10	20	MS 58	24	ESN 14 NI	ES 14 NI
G 3/8"	19 33	10	20	MS 58	23	ESN 38 NI	ES 38 NI
G 1/2"	24 35	12	20	MS 58	38	ESN 12 NI	ES 12 NI
M 14 x 1.5	17 33	11	20	MS 58	25		ES 1415 NI
M 16 x 1.5	19 33	11	20	MS 58	36		ES 1615 NI
M 18 x 1.5	22 35	12	20	MS 58	43		ES 1815 NI
G 1/8"	13 31	9	20	steel	15		ES 18 NIS
G 1/4"	17 33	10	20	steel	22		ES 14 NIS
G 3/8"	19 33	10	20	steel	21		ES 38 NIS
G 1/2"	24 35	12	20	steel	35		ES 12 NIS

Plugs with hose barb



Hose i.D.	I	d	Stem L.	Plug L.	Material	Weight/pc. g	Type No. n.plated	Type No. plain
4 mm	44	12	22,5	20	MS 58	10	ESN 4 S	ES 4 S
6 mm	44	12	24	20	MS 58	14	ESN 6 S	ES 6 S
8 mm	44	12	24	20	MS 58	18	ESN 8 S	ES 8 S
9 mm	44	12	24	20	MS 58	17	ESN 9 S	ES 9 S
10 mm	47	12	26	20	MS 58	21		ES 10 SH*
10 mm	44	12	23	20	MS 58	19	ESN 10 S	ES 10 S
13 mm	47	15	26	20	MS 58	26		ES 13 SH*
13 mm	44	15	23	20	MS 58	24	ESN 13 S	ES 13 S
6 mm	44	12	24	20	steel	13		ES 6 SS
8 mm	44	12	24	20	steel	18		ES 8 SS
9 mm	44	12	24	20	steel	16		ES 9 SS
13 mm	44	15	23	20	steel	26		ES 13 SS

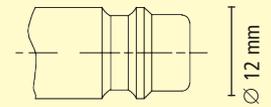
For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)

*ES10TH and ES13TH for the use of various quick-fit hoses (e.g. Parker Push-Lock, Gates Lock-on)

Quick Connect Couplings

The ORIGINAL - single shut-off **Series ES**

DN7.2



Plug profile original size

Plugs for plastic hose connection

For Hose	Hex.1	Hex.2	I	Plug L.	Material	Weight/pc. g	Type No. n.plated	Type No.plain
4 x 6 mm	-	12	34	20	MS 58	18	ESN 4 SQ	ES 4 SQ
6 x 8 mm	-	14	34	20	MS 58	19	ESN 6 SQ	ES 6 SQ
8 x 10 mm	17	17	43	20	MS 58	38	ESN 8 SQ	ES 8 SQ
9 x 12 mm	17	17	43	20	MS 58	36	ESN 9 SQ	ES 9 SQ

Plugs with squeeze nut and spring guard

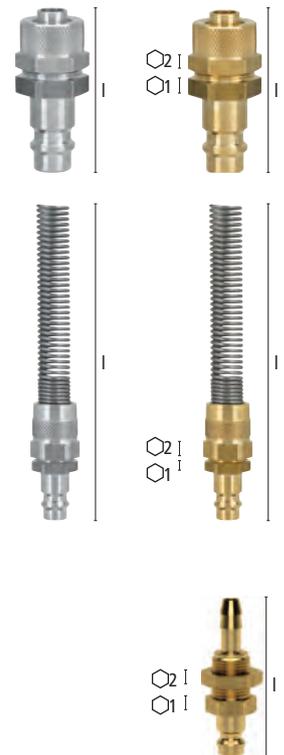
For Hose	Hex.1	Hex.2	I	Plug L.	Material	Weight/pc. g	Type No. n.plated	Type No.plain
4 x 6 mm	-	12	115	20	MS 58	30	ESN 4 SQF	ES 4 SQF
5 x 8 mm	17	14	115	20	MS 58	34		ES 58 SQF
6 x 8 mm	-	14	115	20	MS 58	37	ESN 6 SQF	ES 6 SQF
6.5 x 10 mm	17	17	115	20	MS 58	48		ES 6510 SQF
8 x 10 mm	17	19	132	20	MS 58	83	ESN 8 SQF	ES 8 SQF
8 x 12 mm	17	19	132	20	MS 58	84		ES 812 SQF
9 x 12 mm	17	19	132	20	MS 58	86	ESN 9 SQF	ES 9 SQF

Bulkhead plugs

Hose i. D.	Hex.1	Hex.2	I	d	Stem Length	Thread	Thread Length	b	Weight/pc. g	Type No.plain
6 mm	14	17	56	17	17	M 12 x 1	14	4	30	ES 6 SSV
8 mm	17	17	56	17	17	M 12 x 1	14	4	35	ES 8 SSV
10 mm	17	19	56	17	17	M 14 x 1	14	4	42	ES 10 SSV

For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)

Special versions on request.



Recoil eliminator for all plug types to avoid the "whip-lash-effect" during disconnection

by controlled automatic air-relief of the hose line available on request!

Quick Connect Couplings

Series ES with angle hose barb, single shut-off - The ORIGINAL

DN 7.2



Couplings with hose barb 45°

Hose i.D.	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	44	27	27	100	ES 6 T-45
9 mm	44	27	27	100	ES 9 T-45
13 mm	44	27	30	110	ES 13 T-45

For hose clips type ZOS (☉ page 106), type HS (☉ page 107) or crimping ferrules type LPH (☉ page 109)

Couplings with hose barb 90°

Hose i.D.	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	44	27	26	105	ES 6 T-90
9 mm	44	27	26	105	ES 9 T-90
13 mm	44	27	28	115	ES 13 T-90

For hose clips type ZOS (☉ page 106), type HS (☉ page 107) or crimping ferrules type LPH (☉ page 109)

Angle-Thread Couplings available on request.

Manifolds for Quick Connect Couplings

of brass MS 58, for compressed air distribution on central places



3-Way-Manifold with female thread

Thread	DN	l	d	Weight/pc. g	☉	Type No.
3 x G 3/8"	15	46	26	93	5	DWS 38
3 x G 1/2"	19	50	27.5	100	5	DWS 12

3-Way-Manifold with Quick Connect couplings DN 7.2 assembled

Inlet	Outlet	DN	l	d	Weight/pc. g	☉	Type No.
G 3/8" female	2 x ES 38 A	7.2	67	26	241	1	DWS 38 ES
G 1/2" female	2 x ES 12 A	7.2	69	27.5	275	1	DWS 12 ES

4-Way-Manifold with female thread

Thread	DN	l	d	Weight/pc. g	☉	Type No.
4 x G 3/8"	15	61	26	191	5	VWS 38
4 x G 1/2"	19	59.5	27.5	170	5	VWS 12

4-Way-Manifold with Quick Connect couplings DN 7.2 assembled

Inlet	Outlet	DN	l	d	Weight/pc. g	☉	Type No.
G 3/8" female	3 x ES 38 A	7.2	92	26	417	1	VWS 38 ES
G 1/2" female	3 x ES 12 A	7.2	91	27.5	435	1	VWS 12 ES

Quick Connect Couplings

The ORIGINAL - non-valved **Series ES**

- To be connected with standard plugs DN 7.2
- Non-valved for optimized flow capacity, particularly for the application with water or other liquids

DN7.2

Max. Working Pressure	Temperature	Medium	DN	Thread	Flow Capacity	One-Hand	Shut-Off	Norm	Area	
PN 35 bar	-20°C – +100°C	liquids	7.2	ISO 228	2150 l/min	yes	non-valved	Eur.Standard	world-wide	10

Couplings with male thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.n.plated	Type No.plain
G 1/4"	22	40	27	9	73	ESN 14 AO	ES 14 AO
G 3/8"	22	41	27	9	76	ESN 38 AO	ES 38 AO
G 1/2"	24	41	27	10	87	ESN 12 AO	ES 12 AO

Male thread sealing with PVC-packing rings type HPD (☺ page 189)

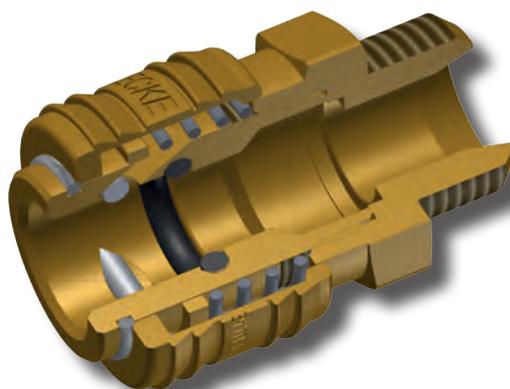
Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.n.plated	Type No.plain
G 1/4"	22	41	27	10.5	92	ESN 14 IO	ES 14 IO
G 3/8"	22	41	27	10.5	85	ESN 38 IO	ES 38 IO
G 1/2"	24	42.5	27	12	87	ESN 12 IO	ES 12 IO

Couplings with hose barb

Hose i. D.	l	d	Stem Length	Weight/pc. g	Type No.n.plated	Type No.plain
6 mm	55	27	25	64	ESN 6 TO	ES 6 TO
9 mm	55	27	25	68	ESN 9 TO	ES 9 TO
13 mm	55	27	25	75	ESN 13 TO	ES 13 TO

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Quick Connect Couplings

Series ES double shut-off - The ORIGINAL

DN 7.2

- Quick Connect Couplings of brass MS 58
- Double shut-off to avoid the escape of medium when disconnecting. Robust, safe and reliable
- **Attention: Couplings can be connected with non-valved plugs DN 7.2, valved plugs cannot be connected with single shut-off couplings DN 7.2!**
- Several fields of application, above all for liquid mediums in construction, control technology, switchboard cooling etc

Materials

- Body, sleeve, valve body, valve, plugs: brass MS 58
- Springs, retaining rings: stainless steel 1.4310; Pins: stainless steel 1.4305
- O-rings: NBR; Extra charge for O-rings: EPDM 0.38 Euro, FKM

Max. Working Pressure	Temperature	Medium	DN	Thread	Norm	Fl. capacity	One-Hand	Shut-off	Area	
PN 35 bar	-20°C – +100°C	divers	7.2	ISO228 / DIN 13	EU Standard	630 l/min	yes	double	worldwide	10

Couplings with male Thread



Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	22	40	27	9	73	ES 14 AAB
G 3/8"	22	41	27	9	76	ES 38 AAB
G 1/2"	24	41	27	10	87	ES 12 AAB
M 16 x 1,5	22	40	27	9	78	ES 1615 AAB
M 18 x 1,5	22	41	27	10	82	ES 1815 AAB

Male thread sealing with PVC-packing rings type HPD (© page 189)

Couplings with female Thread



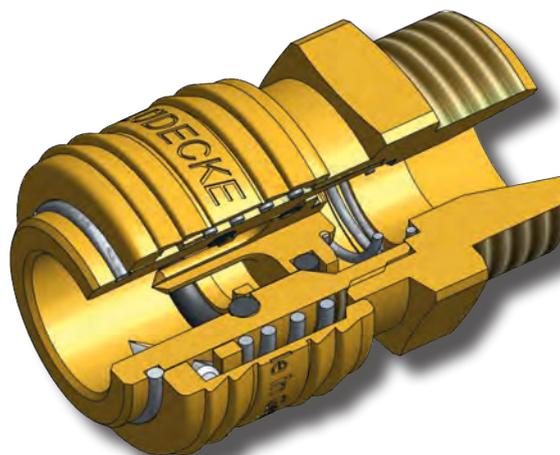
Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	22	41	27	10.5	92	ES 14 IAB
G 3/8"	22	41	27	10.5	85	ES 38 IAB
G 1/2"	24	42.5	27	12	87	ES 12 IAB
M 16 x 1,5	22	41.5	27	11	85	ES 1615 IAB
M 18 x 1,5	22	42.5	27	12	86	ES 1815 IAB

Couplings with hose barb



Hose i. D.	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	55	27	25	64	ES 6 TAB
9 mm	55	27	25	68	ES 9 TAB
13 mm	55	27	25	75	ES 13 TAB

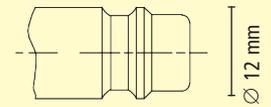
For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)



Quick Connect Couplings

The ORIGINAL - double shut-off **Series ES**

DN7.2



Plug profile original size

Plugs with male thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/4"	22	43	9	20	45	ES 14 NAAB
G 3/8"	22	44	10	20	48	ES 38 NAAB
G 1/2"	24	44	10	20	60	ES 12 NAAB
M 16 x 1.5	22	43	9	20	46	ES 1615 NAAB
M 18 x 1.5	22	44	10	20	47	ES 1815 NAAB

Male thread sealing with PVC-packing rings type HPD (☺ page 189)



Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/4"	22	44	10.5	20	64	ES 14 NIAB
G 3/8"	22	44	10.5	20	57	ES 38 NIAB
G 1/2"	24	44.5	12	20	62	ES 12 NIAB
M 16 x 1.5	22	43.5	11	20	60	ES 1615 NIAB
M 18 x 1.5	22	44.5	12	20	60	ES 1815 NIAB

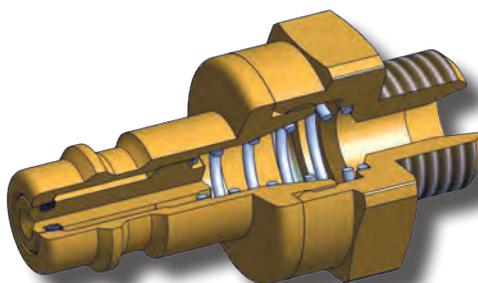


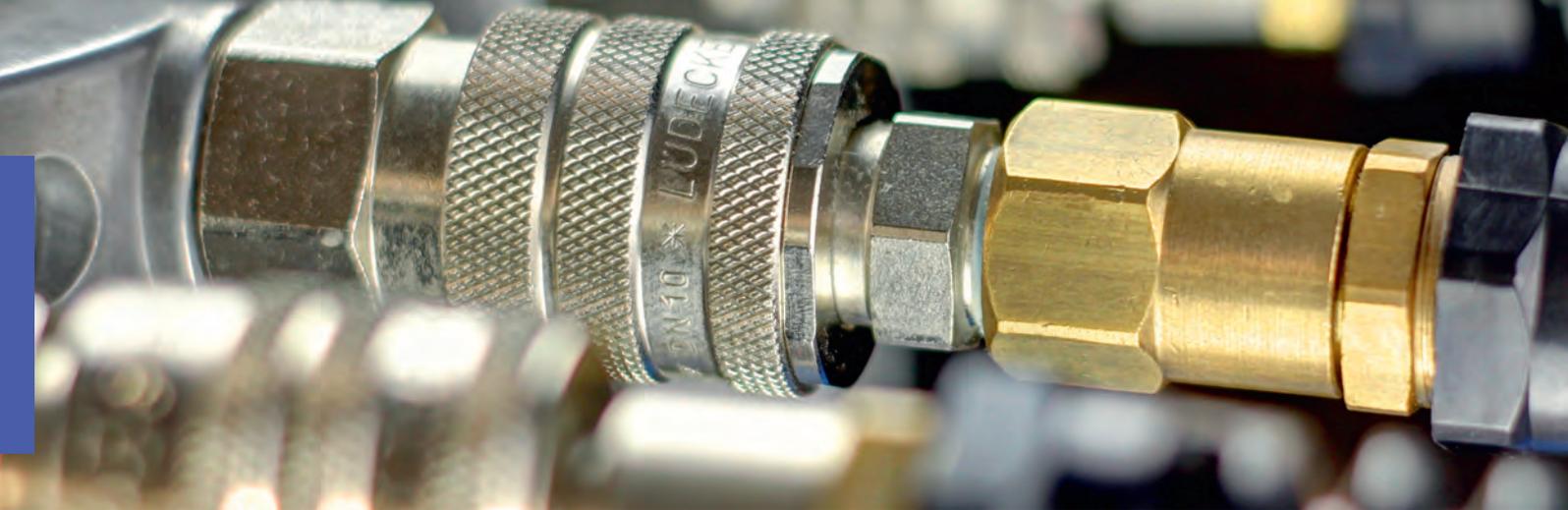
Plugs with hose barb

Hose i. D.	Hexagon	l	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	22	58	25	20	34	ES 6 SAB
9 mm	22	58	25	20	38	ES 9 SAB
13 mm	24	58	25	20	44	ES 13 SAB

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Further dimensions on request!





OptiFlow-Line Energy efficient Quick Connect Coupling Systems for compressed air and fluid applications



Compressed air – an expensive medium?

Despite numerous advantages, compressed air has the reputation of being a cost intensive energy user. This assumption cannot be verified while using the air application correctly. We find in all industrial fields great potentials of energy savings.

Following factors are known as potential energy killers in compressed air applications:

- Standard valves with large surface area
- Too small dimensioned hose or tubing
- Too small dimensioned connections
- Insufficient capacity in networks or ring main systems
- High humidity of air



Effect of such factors:

- High pressure drops
- High energy consumption from compressor
- Reduced productivity
- Damages on system/ tools

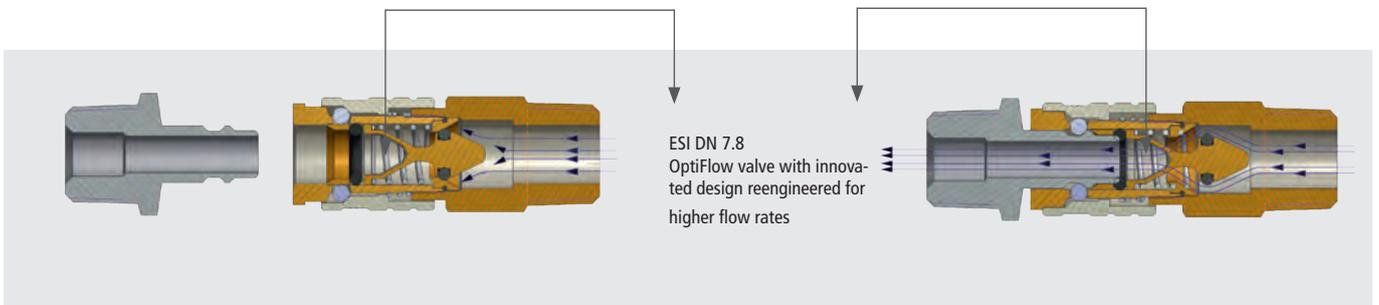
LUDECKE OptiFlow-Line optimizes flow rates and efficient energy utilization.

As a manufacturer of quick connect coupling systems, **LUDECKE** consequently redefines its designs and features for the range of **OptiFlow-Line** products.

LUDECKE OptiFlow-Line

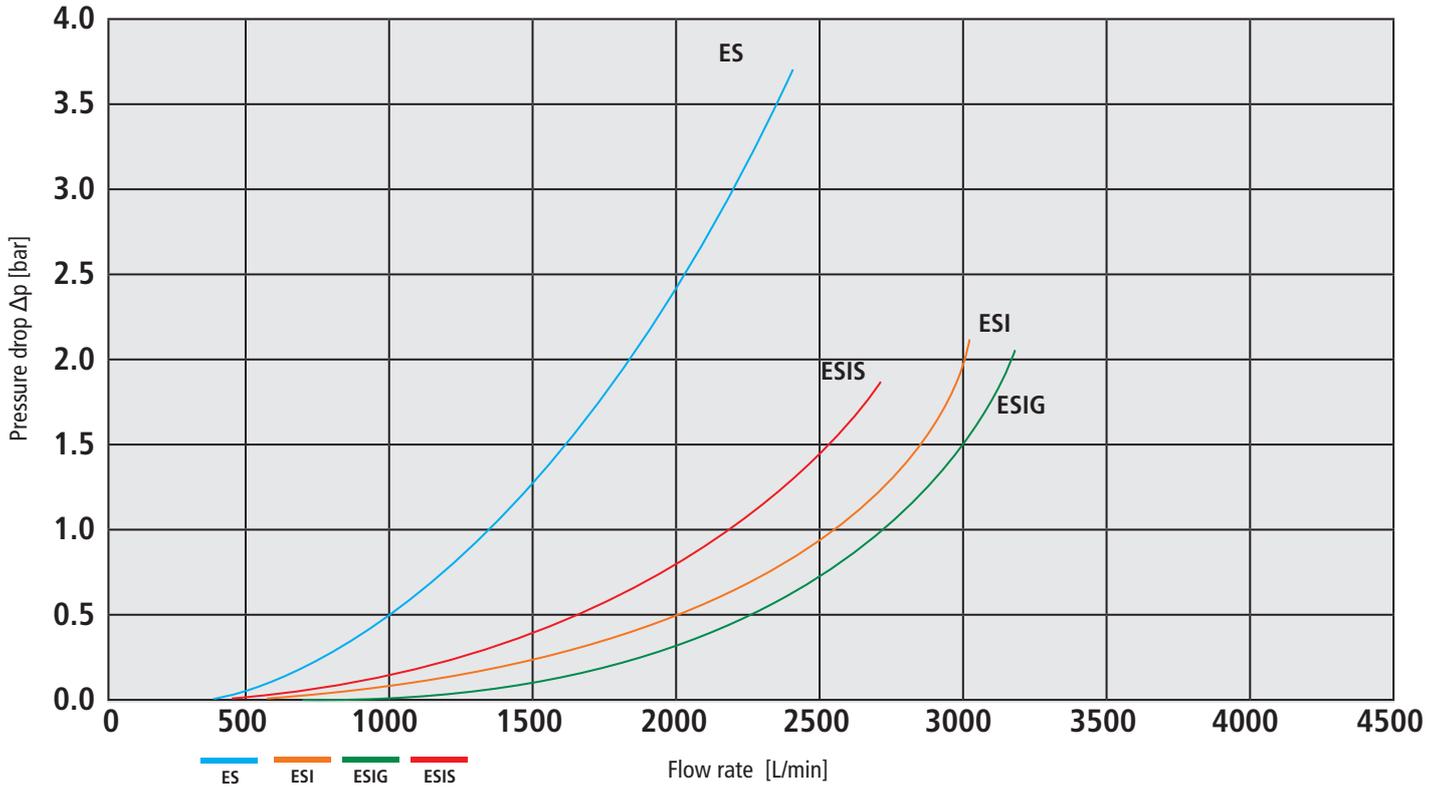
- Streamlined OptiFlow valve
- Extremely high flow rates
- Low pressure drop
- High volume
- Special design OptiFlow valve, aerodynamic design
- High energy efficiency and durability
- Superior functions and sealing characteristics
- Extremely low connection forces
- Compact and ergonomical design



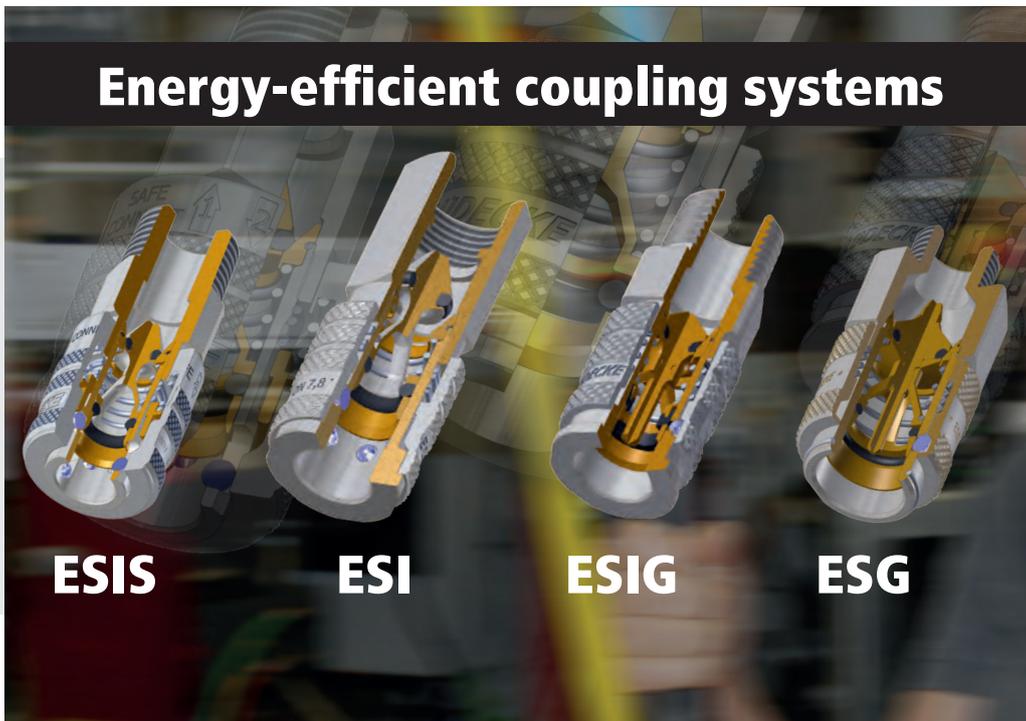


Flow Chart

Standard Quick Connect Coupling System single shut-off



Energy-efficient coupling systems – Made by **LUDECKE**



Industrial Quick Connect Couplings

Series ESI single shut-off

DN7.8

- High quality, extreme robust couplings with high class sealing
- High flow rate with low pressure drop due to OptiFlow valve design
- Collar version: protected valve housing
- Special versions i. e. non-valved or double shut-off on request
- For compressed air lines in industry or garages, especially recommended directly at compressed air tools
- Also interchangeable with plug profile ES DN7.2, ESPN DN 7.4 a.o.

Materials

- Body, valve body: MS 58 nickel-plated
- Sleeve: Hardened steel nickel-plated
- O-rings: NBR, other sealing materials on request
- Springs: stainless steel 1.4310; balls: stainless steel 1.4034
- Plugs: Hardened steel nickel-plated

Max. Work. Pressure	Temperature	Medium	DN	Threads	Norm	Flow Capacity	One-Hand	Shut-Off	Area	
PN 35 bar	-20°C – +100°C	compr. air	7.8	ISO228 / DIN2999	EU Standard	2000 l/min	yes	single	Europe	Coupl. 5 / Plug 10

Couplings with male thread tapered (thread coated)

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
R 1/4"	19	60	23	11	98	ESI 14 A
R 3/8"	19	61	23	12	97	ESI 38 A
R 1/2"	22	64	23	15	114	ESI 12 A

Couplings with female thread parallel

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	19	56	23	10	116	ESI 14 I
G 3/8"	19	56	23	10	107	ESI 38 I
G 1/2"	24	58	23	12	125	ESI 12 I

Couplings with hose barb

Hose i.D.	Hexagon	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	19	73	23	25	95	ESI 6 T
8 mm	19	73	23	25	97	ESI 8 T
9 mm	19	73	23	25	98	ESI 9 T
10 mm	19	73	23	25	97	ESI 10 T
13 mm	19	73	23	25	101	ESI 13 T

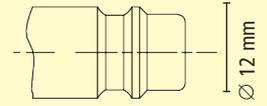
For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)



Industrial Quick Connect Couplings

single shut-off **Series ESI**

DN7.8



Plug profile original size

Plugs with male thread parallel

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	13	33	9	20	14	ESI 18 NAS
G 1/4"	14	35	11	20	18	ESI 14 NAS
G 3/8"	17	36	12	20	23	ESI 38 NAS
G 1/2"	22	40	15	20	47	ESI 12 NAS



Plugs with female thread parallel

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	13	32	9	20	16	ESI 18 NIS
G 1/4"	17	33	10	20	24	ESI 14 NIS
G 3/8"	19	33	10	20	25	ESI 38 NIS
G 1/2"	24	35	12	20	40	ESI 12 NIS



Plugs with hose barb

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	12	44	24	20	13	ESI 6 SS
8 mm	12	44	24	20	18	ESI 8 SS
9 mm	12	44	24	20	16	ESI 9 SS
10 mm	12	44	24	20	18	ESI 10 SS
13 mm	15	44	23	20	26	ESI 13 SS



For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Industrial Quick Connect Couplings

Series ESIG single shut-off

DN 10

- High-quality, extreme robust Quick Connect Couplings with superior seal characteristic
- Extremely high flow rate with low pressure drop due to OptiFlow
- Special versions on request, i.e. non-valved couplings
- **For the supply of compressed air in industry and handcraft at extraction points with extremely high need of compressed air for high-performance tools as well as in engineering and construction**

Materials

- Body, valve body, valve: MS 58 nickel-plated
- Sleeve: steel, hardened and nickel-plated
- Springs: stainless steel 1.4310, balls: stainless steel 1.4034
- O-rings: NBR, other materials on request
- Plugs: steel, hardened and nickel-plated

Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Area	
PN 35 bar	-20°C – +100°C	compr. air	10	ISO228 / DIN2999	2150 l/min	yes	single	Europe	coup5/plugs10

Couplings with tapered male thread (thread coated)

Thread	Hexagon	l	Thread Length	d		Weight/pc. g	Type No.
R 1/4"	24	63	12	27	5	135	ESIG 14 A
R 3/8"	24	63	12	27	5	143	ESIG 38 A
R 1/2"	24	65	17	27	5	147	ESIG 12 A
R 3/4"	27	65	17	27	5	155	ESIG 34 A

Couplings with parallel female thread

Thread	Hexagon	l	Thread Length	d		Weight/pc. g	Type No.
G 1/4"	24	56	11	27	5	136	ESIG 14 I
G 3/8"	24	56	11	27	5	145	ESIG 38 I
G 1/2"	24	56	12	27	5	135	ESIG 12 I
G 3/4"	32	60	16	27	5	200	ESIG 34 I

Couplings with hose barb

Hose i.D.	Hexagon	l	Stem Length	d		Weight/pc. g	Type No.
9 mm	24	76	25	27	5	150	ESIG 9 T
10 mm	24	76	25	27	5	150	ESIG 10 T
13 mm	24	76	25	27	5	152	ESIG 13 T
16 mm	24	76	25	27	5	152	ESIG 16 T
19 mm	24	76	25	27	5	160	ESIG 19 T

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Plugs with tapered male thread (thread coated)

Thread	Hexagon	l	Thread Length	Plug Length		Weight/pc. g	Type No.
R 1/4"	17	40	12	21	10	30	ESIG 14 NAS
R 3/8"	17	40	12	21	10	32	ESIG 38 NAS
R 1/2"	22	45	17	21	10	35	ESIG 12 NAS
R 3/4"	27	48	19	21	10	37	ESIG 34 NAS

Plugs with parallel female thread

Thread	Hexagon	l	Thread Length	Plug Length		Weight/pc. g	Type No.
G 1/4"	17	34	10	21	10	36	ESIG 14 NIS
G 3/8"	19	36	12	21	10	42	ESIG 38 NIS
G 1/2"	24	37	12	21	10	41	ESIG 12 NIS
G 3/4"	32	42	16	21	10	43	ESIG 34 NIS

Plugs with hose barb

Hose i.D.	l	Stem Length	d	Plug Length		Weight/pc. g	Type No.
9 mm	48	25	15	21	10	24	ESIG 9 SS
10 mm	48	25	15	21	10	24	ESIG 10 SS
13 mm	48	25	15	21	10	28	ESIG 13 SS
16 mm	48	25	18	21	10	30	ESIG 16 SS
19 mm	48	25	21	21	10	35	ESIG 19 SS

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

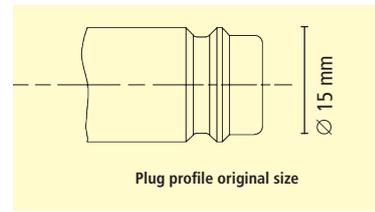


Industrial Quick Connect Couplings

double shut-off **Series ESIG**

- High-quality, extreme robust Quick Connect Couplings with superior seal characteristics
- double shut-off to avoid the escape of medium when disconnecting. Robust, safe and reliable
- **Attention: Couplings can be connected with non-valved plugs DN 10, but valved plugs cannot be connected with standard couplings DN 10!**
- Several fields of application, above all for liquid mediums in construction, control technology, switchboard cooling etc

DN 10



Materials

- Body, valve body, valve: MS 58 nickel-plated
- Sleeve: steel, hardened and nickel-plated
- Springs: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: NBR, other materials on request
- Plugs: steel hardened and plated

Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Area	
PN 35 bar	-20°C – +100°C	compr. air	10	ISO228 / DIN2999	1070 l/min	yes	double	Europe	coup5/plugs10

Couplings with tapered male thread (thread coated)

Thread	Hexagon	l	Thread Length	d		Weight/pc. g	Type No.
R 3/8"	24	63	12	27	5	143	ESIG 38 AAB
R 1/2"	24	65	17	27	5	147	ESIG 12 AAB
R 3/4"	27	65	17	27	5	155	ESIG 34 AAB

Couplings with parallel female thread

Thread	Hexagon	l	Thread Length	d		Weight/pc. g	Type No.
G 3/8"	24	56	11	27	5	145	ESIG 38 IAB
G 1/2"	24	56	12	27	5	135	ESIG 12 IAB
G 3/4"	32	60	16	27	5	200	ESIG 34 IAB

Couplings with hose barb

Hose i.D.	Hexagon	l	Stem Length	d		Weight/pc. g	Type No.
9 mm	24	76	25	27	5	150	ESIG 9 TAB
10 mm	24	76	25	27	5	150	ESIG 10 TAB
13 mm	24	76	25	27	5	152	ESIG 13 TAB
16 mm	24	76	25	27	5	152	ESIG 16 TAB
19 mm	24	76	25	27	5	160	ESIG 19 TAB

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Plugs with tapered male thread (thread coated)

Thread	Hexagon	l	Thread Length	Plug Length		Weight/pc. g	Type No.
R 3/8"	24	61	12	21	10	105	ESIG 38 NAAB
R 1/2"	24	63	17	21	10	108	ESIG 12 NAAB
R 3/4"	27	63	17	21	10	115	ESIG 34 NAAB

Plugs with parallel female thread

Thread	Hexagon	l	Thread Length	Plug Length		Weight/pc. g	Type No.
G 3/8"	24	55	11	21	10	120	ESIG 38 NIAB
G 1/2"	24	55	12	21	10	140	ESIG 12 NIAB
G 3/4"	32	59	16	21	10	150	ESIG 34 NIAB

Plugs with hose barb

Hose i.D.	Hexagon	l	Stem Length	Plug Length		Weight/pc. g	Type No.
9 mm	24	74	25	21	10	110	ESIG 9 SAB
10 mm	24	74	25	21	10	110	ESIG 10 SAB
13 mm	24	74	25	21	10	110	ESIG 13 SAB
16 mm	24	74	25	21	10	120	ESIG 16 SAB
19 mm	24	74	25	21	10	120	ESIG 19 SAB

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Quick Connect Couplings

Series ESG single and double shut-off

DN 19

- High-quality, extreme robust Quick Connect Couplings for compressed air and liquid mediums
- Highest flow rate with low pressure drop for large tools especially for applications with high-volume flow rate in connection with a shut-off function by one-hand operation
- Special versions, e. g. sealing rings of FKM or EPDM for aggressive medium or coupling with free passage on request
- Couplings are suitable for valved and non-valved plugs
- For compressed air supply and other media in industry or construction at extraction points with extremely high demand of compressed air for high performance tools or for applications with different fluids

Materials

- Body, valve body, valve, sleeve: brass MS 58
- Springs, retaining rings: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: NBR, other materials on request
- Plugs: brass MS 58

Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Area	
PN 35 bar	-20°C – +100°C	air / liquids	19	ISO228	8000/2650 L/min	yes	single double	Europe	coupl1/plugs5

Couplings with male thread

Thread	Hexagon	l	Thread Length	d	Weight/pc. g	Type No.
G 3/4"	41	95	16	46	650	ESG 34 A
G 1"	41	98	19	46	620	ESG 10 A
G 1 1/4"	46	98	19	46	745	ESG 54 A

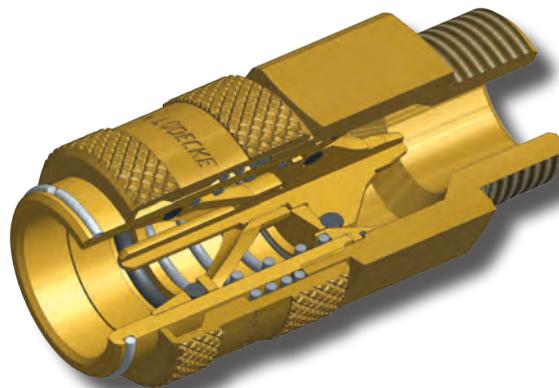
Couplings with female thread

Thread	Hexagon	l	Thread Length	d	Weight/pc. g	Type No.
G 3/4"	41	99	20	46	740	ESG 34 I
G 1"	41	100	22	46	650	ESG 10 I
G 1 1/4"	50	105	22	46	700	ESG 54 I

Couplings with hose barb

Hose i. D.	l	Stem Length	d	Weight/pc. g	Type No.
19 mm	115	36	46	600	ESG 19 T
25 mm	125	48	46	683	ESG 25 T

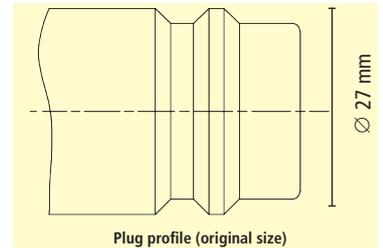
For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Quick Connect Couplings

single and double shut-off Series ESG

DN 19



Plugs with male thread without/with valve

Thread	Hexagon	l	Thread Length	Plug Length	valve	Weight/pc. g	Type No.
G 3/4"	30	60	16	34	free	160	ESG 34 NA
G 1"	36	65	19	34	free	200	ESG 10 NA
G 1 1/4"	46	68	19	34	free	350	ESG 54 NA
G 3/4" "	41	92	16	34	shut-off	320	ESG 34 NAAB
G 1"	41	95	19	34	shut-off	410	ESG 10 NAAB
G 1 1/4"	46	95	19	34	shut-off	500	ESG 54 NAAB



Plugs with female thread without/with valve

Thread	Hexagon	l	Thread Length	Plug Length	valve	Weight/pc. g	Type No.
G 3/4"	32	58	16	34	free	160	ESG 34 NI
G 1"	41	68	19	34	free	300	ESG 10 NI
G 1 1/4"	50	70	19	34	free	410	ESG 54 NI
G 3/4" "	41	97	20	34	shut-off	430	ESG 34 NIAB
G 1"	41	97	22	34	shut-off	450	ESG 10 NIAB
G 1 1/4"	50	102	22	34	shut-off	540	ESG 54 NIAB

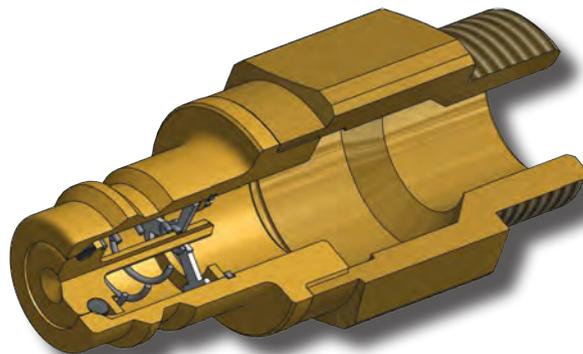


Plugs with hose barb without/with valve

Hose i. D.	Hexagon	l	Stem Length	Plug Length	valve	Weight/pc. g	Type No.
19 mm	-	75	36	34	free	154	ESG 19 S
25 mm	-	87	48	34	free	185	ESG 25 S
19 mm	41	117	36	34	shut-off	430	ESG 19 SAB
25 mm	41	127	48	34	shut-off	460	ESG 25 SAB



For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)





SafeConnect-Line

Quick Connect Coupling systems with safety function for compressed air applications

Compressed air is a media with an extremely high potential of danger, especially in the case of improper use and when safety regulations are not followed. While using compressed air applications, an enormous amount of force can be released and therefore, a danger for the user is omnipresent.

Therefore, it is highly recommended to give way to safety rules when you are in contact with compressed air. In the first place, one should avoid to accidentally remove the coupling and therefore to bring about an uncontrolled slewing around of the flexible hose (whiplashing effect). An unnecessarily high noise level should also be avoided, as well as false coupling while using different media at the same time.



Whiplashing effect: high risk of injury in the usage of compressed air – avoidable through the use of products from the **LUDECKE SafeConnect-Line**.

LUDECKE offers with its **SafeConnect-Line** a coupling series according to EN 4414.

- ① Automatic venting of pressure and reduced noise level.
- ② Avoid the risk of injury from whiplashing of the hose.
- ③ Sleeve lock prevents an unwillingly disconnection.
- ④ Colour coded couplings and plugs indicate the correct connection.

LUDECKE SafeConnect-Line guarantees a maximum of reliability and safety at work.

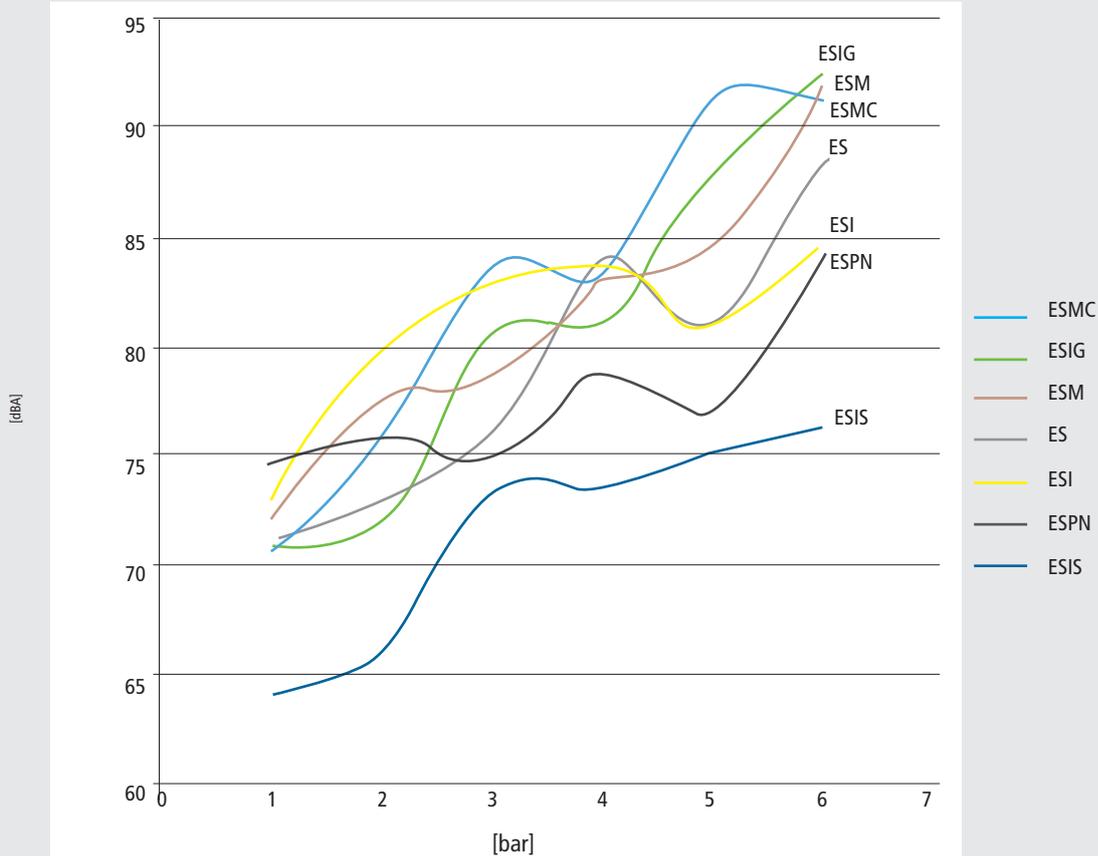


LUDECKE *SafeConnect-Line*

Self venting protection EN 4414		Sleeve lock protection system			Visual indication
Sleeve concept	Push-button concept	by means of a locking pin	by means of a locking nut	by means of two-hand operation	plug and colour coding
ESIS DN 7.8	ESPN DN 7.4	ES DN 7.2	ESI DN 7.8	ESI1A DN 7.4 ESI2A DN 7.4	ESMK DN 5
					

Noise level of different Quick Connect couplings while disconnecting

Self venting couplings operate from 1 to 6 bar pressure, these functions allow a pressureless disconnection below a noise level of 80dB (decibel). Other coupling systems show a significant higher noise level already at 4 bar pressure, the usage of a hearing protection is strongly recommended.





Self venting Quick Connect Couplings

Series ESIS DN 7.8 / ESPN DN 7.4

Both types prevent the whiplashing effect due to their self venting features. The ESIS Series only allows a disconnection in two steps. The ESPN Series offers a push button function to disconnect without pressure.

Venting and pressure relief of Series ESIS DN 7.8

The couplings of the Series ESIS DN 7.8 are extremely easy to connect in one-hand operation. The disconnection takes place in two steps through a simple push and pull of the sleeve to the direction of the indication arrow sign.

- Self venting couplings of metal (brass/ hardened steel) for safe handling of compressed air lines
- High flow rates at low pressure drop with an OptiFlow efficient valve
- Compact and ergonomic design
- Compatible to Euro-Profile DN 7.2 and DN 7.8



According to
ISO 4414/
DIN EN 983/ BIA



One-hand operation: Connection by pushing the plug into the coupler



Disconnection – first step: automatic venting



Disconnection – second step: pressureless disconnection





Applications with **LUDECKE** ESIS DN 7.8



Venting and pressure relief with the **LUDECKE push-button version (Series ESPN DN 7.4)**

With this self venting system the pressure relief and the disconnection of coupling and plug is initiated by pushing the button. The ergonomic shape enables easy and intuitive handling.

- Small size due to composite material, no scratching of sensitive surfaces
- Silicon-free production: no danger of a contamination of compressed air while applying paints and lacquers
- Antistatic: electrical conductivity (no dust will deposit on painted or lacquered areas)
- Compatible with „Euro-Profile“ DN 7.2 or DN 7.8



One-hand operation: connection by pushing the plug into the coupler.

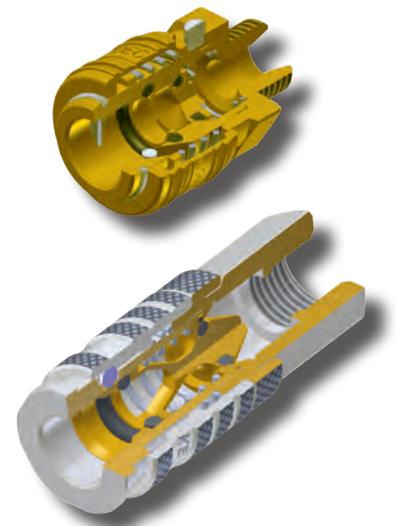
Disconnection: To disconnect push the button. Coupling disconnects after automatic pressure relief and sets the plug free.

Quick Connect Coupling with sleeve lock mechanism

Series ES DN 7.2 / ESI DN 7.8

These Quick Connect couplings offer simple and effective protection against unintentional disconnection. For this purpose, the sleeve of the coupling ES DN 7.2 is twisted or the locking nut of the ESI DN 7.8 is screwed.

- Disconnection is only possible when the locking pin is twisted into the sleeves groove (ES DN 7.2) or when unscrewing the locking nut (DN 7.8)
- For coupling with standard plugs DN 7.2 and DN 7.8
- To be used with compressed air or fluids, e.g. for sewer cleaning and renovation



One-hand operation: connection through simple pushing the plug into the coupling



Securing through twisting of the sleeve



DN 7.2: to disconnect, the locking pin has to lock exactly into the sleeves milling when the sleeve is pulled back



One-hand operation, additional locking feature due to screw lock on coupling body – mechanical lock with counter (pinch) screw



DN 7.8: coupling only possible through opening of the lock nut



Breathing Air Quick Connect Couplings

Series ES11A, ES12A DN 7.4



One-hand operation: connection through simple pushing the plug into the coupling



Two-hand operation: To disconnect push the plug into the coupling, then the locking mechanism works.



Safety Breathing Air Quick Connect Couplings of the Series ES11A and ES12A avoid unintended disconnection. Additionally, they ensure high safety during the disconnection of coupling and plug.

- High-quality, more robust one-hand operation Quick Connect couplings with superior sealing characteristic and safety locking
- Two-hand operation: the disconnection is effected while pushing the plug and pulling back the sleeve



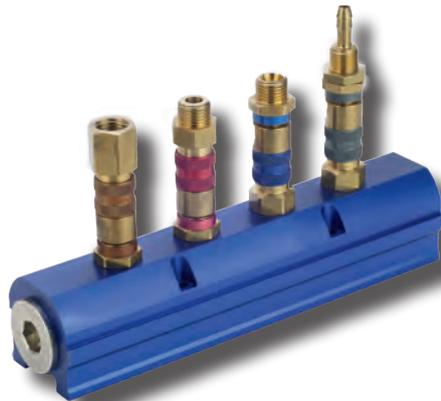
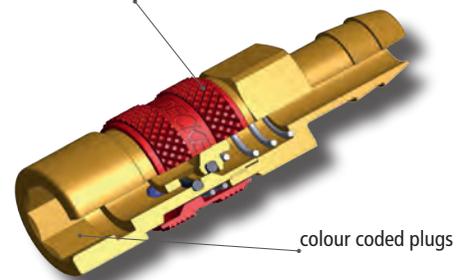
Mini Quick Connect Couplings with coded plug and coloured sleeve **Series ESMK**

DN5

The mini one-hand operation Quick Connect couplings are used for a visual differentiation of different media circuits with coloured anodized knurled sleeves of aluminium as well as a colour coded valve body at the coupling and differently coloured anodized ring of aluminium at the plug.

- To prevent wrong connections while using different mediums in an application with additional coded plugs
- Only couplings with the same coding and colour can be connected

coloured anodized knurled sleeve of aluminium



clear colour coding to prevent wrong connection



One-hand operation: connection via pushing of the plug into the coupling. Thereby, the colours of the sleeve of aluminium of the coupling and the ring of aluminium of the plug as well as the plug- coding have to be identical.

Disconnection: pulling back the coupling sleeve

Plug- and colour coding in original size



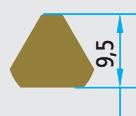
Wrong colour and coding!
Coupling is not possible.

green



Ø 10.5

brown



blue



Hex.10

red



Hex. 10

Self Venting Couplings

Series ESIS single shut-off

DN 7.8

- For a safe handling of flexible compressed-air lines
- **Attention: an absolutely safe function can only be guaranteed by using hardened steel plugs!**
- Very easy to connect, disconnection in two steps by pushing and pulling the sleeve in direction of arrow. Automatic air-relief after step 1, riskless disconnection after step 2.
- Secure prevention of the whip-lash-effect at an optimum user friendliness.
- High-quality, ergonomic and very robust quick-disconnect couplings in metal with an optimum sealing
- High flow capacity at low pressure drop due to stream favourable OptiFlow valve
- Compact dimensions

Materials

- Body, valve body, valve: MS 58 nickel-plated brass
- Sleeve: hardened steel nickel-plated
- O-rings: NBR, other materials on request
- Springs: stainless steel 1.4310
- Balls: stainless steel 1.4034
- Plugs: hardened steel nickel-plated

Max. Wor. Pressure	Temperature	Medium	DN	Thread	Norm	Flow Capacity One-Hand	Shut-off	Area		
PN 12 bar	-20°C – +100°C	compr. air	7.8	ISO228 / DIN2999	EU Standard	1700 l/min	yes	single	Europe	Coup. 5 / Plug 10

Safety Couplings with male thread tapered (thread coated)

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
R 1/4"	19	61	28	11	138	ESIS 14 A
R 3/8"	19	62	28	12	134	ESIS 38 A
R 1/2"	22	64	28	15	144	ESIS 12 A

Safety Couplings with female thread parallel

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	19	57	28	10	146	ESIS 14 I
G 3/8"	19	57	28	10	144	ESIS 38 I
G 1/2"	24	59	28	12	160	ESIS 12 I

Safety Couplings with hose barb

Hose i. D.	Hexagon	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	19	74	28	25	136	ESIS 6 T
8 mm	19	74	28	25	136	ESIS 8 T
9 mm	19	74	28	25	138	ESIS 9 T
10 mm	19	74	28	25	138	ESIS 10 T
13 mm	19	74	28	25	141	ESIS 13 T

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



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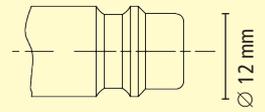
According to: ISO 4414 | DIN EN 983 | BIA

Plugs for Self Venting Couplings

single shut-off **Series ESIS** and **Series ESPN**

DN7.8

DN7.4



Plug profile (original size)

Plugs with male thread tapered (thread coated)

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
R 1/8"	13	33	9	20	14	ESI 18 NARS
R 1/4"	14	35	11	20	18	ESI 14 NARS
R 3/8"	17	36	12	20	23	ESI 38 NARS
R 1/2"	22	40	15	20	47	ESI 12 NARS

Plugs with female thread parallel

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	13	32	9	20	16	ESI 18 NIS
G 1/4"	17	33	10	20	24	ESI 14 NIS
G 3/8"	19	33	10	20	25	ESI 38 NIS
G 1/2"	24	35	12	20	40	ESI 12 NIS

Plugs with hose barb

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	12	44	24	20	13	ESI 6 SS
8 mm	12	44	24	20	18	ESI 8 SS
9 mm	12	44	24	20	16	ESI 9 SS
10 mm	12	44	24	20	18	ESI 10 SS
13 mm	15	44	23	20	26	ESI 13 SS

For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)



Self Venting Couplings

push-the-button – single shut-off **Series ESPN**

DN 7.4

- Pressureless disconnection guarantees absolute safety
- High quality, robust Quick Connect Couplings with superior seal characteristic
- New locking-system, extremely easy to connect and disconnect (only 1 button push necessary)
- Lightweight due to plastic compound material – no scratching of sensitive surfaces
- Safety-air relief function: air relief with 1 button-push, automatic safe disconnection of the coupling without pressure.
- Attention: an absolutely safe function can only be guaranteed by using hardened steel plugs!
- Interchangeable with the "Euro-Profile" DN 7.2 or DN 7.8
- No electrostatic charging
- **Safe avoiding of the "whip lash-effect" with easy operation**

Materials

- Body: steel zinc plated
- Complete housing: plastic compound material
- Seals: O-ring Nitril
- Balls, pins: stainless steel

Max. Work. Pressure	Temperature	Medium	DN	Threads	Norm	Flow Capacity	One-Hand	shut-off	Area	
PN 12 bar	-15°C – +70°C	compr. air	7.4	ISO 228	ISO 4414	1650 l/min.	yes	single	Europe	Coupl. 1 / Plug 10



Couplings with male thread (laminated)

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	23	82	32	15	127	ESPN 14 A
G 3/8"	23	83	32	15	130	ESPN 38 A
G 1/2"	23	85	32	15	135	ESPN 12 A



Couplings with female thread

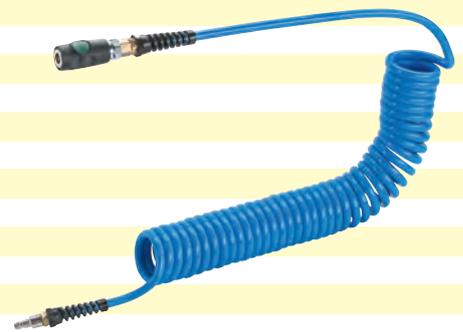
Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	23	74	32	12	124	ESPN 14 I
G 3/8"	23	74	32	12	116	ESPN 38 I
G 1/2"	23	81	32	12	125	ESPN 12 I



Couplings with hose barb

Hose i.D.	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	88	32	22	87	ESPN 6 T
8 mm	88	32	22	85	ESPN 8 T
9 mm	88	32	22	85	ESPN 9 T
10 mm	88	32	22	85	ESPN 10 T
13 mm	92	32	27	91	ESPN 13 T

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



According to:

- ISO 4414
- DIN EN 983
- BIA

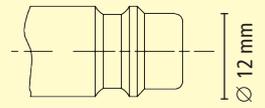
Quick Connect Couplings

Series ES and Series ESI with sleeve lock – single shut-off

- Simple and effective protection to avoid accidental disconnection due to sleeve lock for DN 7.2 and screwing a lock nut for DN 7.8
- Disconnecting is only possible when the locking pin exactly snaps in the sleeve's cutout for DN 7.2 or by opening the lock nut for DN 7.8
- To be coupled with standard plugs DN 7.2 and DN 7.8
- For the application of compressed air or liquid mediums, e.g. for drane clean-up and renovation

DN 7.2

DN 7.8



Plug Profile (original size)

Max. Working Pressure	Temperature	Medium	DN	Thread	Flow Capacity	One-Hand	Shut-Off	Norm	Area	
PN 35 bar	-20°C – +100°C	air etc.	7,2+7,8	ISO 228/DIN ISO 2999	960/1800 l/min	yes	single	Eur.Standard	worldwide	10/5

Couplings with male thread

Thread	Hexagon	l	d	Thread Length	DN	Weight/pc. g		Type No.
G 1/4"	22	40	27	9	7.2	73	10	ES 14 AS
R 1/4"	19	60	23	11	7.8	98	5	ESI 14 AM

Couplings with female thread

Thread	Hexagon	l	d	Thread Length	DN	Weight/pc. g		Type No.
G 1/4"	22	40	27	9	7.2	94	10	ES 14 IS

Couplings with hose barb

Hose i. D	Hexagon	l	d	Stem Length	DN	Weight/pc. g		Type No.
9 mm	19	73	23	25	7.8	98	5	ESI 9 TM
13 mm	without	55	27	25	7.2	77	10	ES 13 TS

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)
Special versions on request.



NEW!

Breathing Air Couplings

Series ESI1A single shut-off with two-hand operation safety mechanism

DN7.4



DIN EN 14594

- High-quality, extremely robust one-hand operation coupling with superior seal characteristic and safety interlock
- To disconnect the plug has to be pushed into the coupling, only then the disconnect protection safety functions
- High flow rates at a low pressure drop through a flow efficient valve
- Special constructions, e.g. non-valved or double shut-off on request
- Coupling "ESI1A" combinable with plug "ESI2A", plug "ESI1A" not combinable with coupling "ESI2A"

Material

- Body, valve body, sleeve, valve: nickel-plated brass
- O-ring: NBR
- Springs: stainless steel 1.4310; balls: stainless steel 1.4034
- Plug: nickel-plated brass

Max. Working Pressure	Temperature	Medium	DN	Norm	Flow Capacity	One-Hand	Shut-Off	Thread	Area	⊗
PN 35 bar	-20°C – +100°C	compr. air	7.4	EU Standard	1800 l/min.	no	single	ISO228 / DIN2999	Europe	Coupl. 5 / Plug 10

Couplings with male thread (laminated)

Thread	⊙Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
R 1/4"	19	60	23	11	106	ESI1A 14 A
R 3/8"	19	61	23	12	108	ESI1A 38 A
R 1/2"	22	64	23	15	136	ESI1A 12 A



Couplings with female thread

Thread	⊙Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	19	56	23	10	109	ESI1A 14 I
G 3/8"	19	56	23	10	103	ESI1A 38 I
G 1/2"	24	58	23	12	138	ESI1A 12 I



Couplings with hose barb

Hose i.D.	⊙Hexagon	l	d	Tüllenlänge	Weight/pc. g	Type No.
6 mm	19	73	23	25	100	ESI1A 6 T
8 mm	19	73	23	25	101	ESI1A 8 T
9 mm	19	73	23	25	100	ESI1A 9 T
10 mm	19	73	23	25	104	ESI1A 10 T
13 mm	19	73	23	25	110	ESI1A 13 T



For hose clips type ZOS (⊗ page 106), type HS (⊗ page 107) or crimping ferrules type LPH (⊗ page 109)

Plugs with male thread tapered (thread coated)

Thread	⊙Hexagon	l	Plug Length	Thread Length	Weight/pc. g	Type No.
R 1/4"	14	35.5	20	11	22	ESI1A 14 NA
R 3/8"	17	37.5	20	12	27	ESI1A 38 NA
R 1/2"	22	40.5	20	15	59	ESI1A 12 NA



Plugs with female thread parallel

Thread	⊙Hexagon	l	Plug Length	Thread Length	Weight/pc. g	Type No.
G 1/4"	17	33.5	20	10	26	ESI1A 14 NI
G 3/8"	19	33.5	20	10	25	ESI1A 38 NI
G 1/2"	24	35.5	20	12	41	ESI1A 12 NI



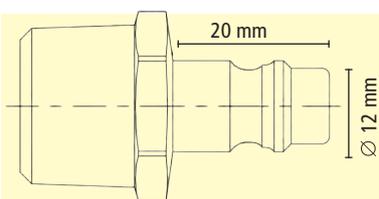
Plugs with hose barb

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	14	47	25	20	16	ESI1A 6 S
8 mm	14	47	25	20	18	ESI1A 8 S
9 mm	14	47	25	20	12	ESI1A 9 S
10 mm	14	47	25	20	21	ESI1A 10 S
13 mm	16	47	25	20	28	ESI1A 13 S



Versions in stainless steel 1.4305 on request.

Plug Profile (original size)



Breathing Air Couplings

Series **ESI2A** single shut-off with two-hand operation safety mechanism

- high-quality, extremely robust one-hand operation coupling with superior seal characteristic and safety interlock
- to disconnect the plug has to be pushed into the coupling, only then the disconnect protection safety functions
- high flow rates at a low pressure drop through a flow efficient valve
- special constructions, e.g. non-valved or double shut-off on request
- coupling "ESI1A" combinable with plug "ESI1A", plug "ESI2A" not combinable with coupling "ESI1A"

DN7.4



DIN EN 14594

Material

- Body, valve body, sleeve, valve: nickel-plated brass
- O-ring: NBR
- springs: stainless steel 1.4310; balls: stainless steel 1.4034
- Plug: nickel-plated brass

Max. Working Pressure	Temperature	Medium	DN	Norm	Flow Capacity	One-Hand	Shut-Off	Thread	Area	
PN 35 bar	20°C – +100°C	compr. air	7.4	EU Standard	1800 l/min.	no	single	ISO228 / DIN2999	Europe	Coupl. 5 / Plug 10

Couplings with male thread (laminated)

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
R 1/4"	19	64	23	11	114	ESI2A 14 A
R 3/8"	19	65	23	12	117	ESI2A 38 A
R 1/2"	22	68	23	15	144	ESI2A 12 A

Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	19	60	23	10	118	ESI2A 14 I
G 3/8"	19	60	23	10	111	ESI2A 38 I
G 1/2"	24	62	23	12	146	ESI2A 12 I

Couplings with hose barb

SLW	Hexagon	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	19	77	23	25	108	ESI2A 6 T
8 mm	19	77	23	25	110	ESI2A 8 T
9 mm	19	77	23	25	108	ESI2A 9 T
10 mm	19	77	23	25	112	ESI2A 10 T
13 mm	19	77	23	25	118	ESI2A 13 T

For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)

Plugs with male thread tapered (thread coated)

Thread	Hexagon	l	Plug Length	Thread Length	Weight/pc. g	Type No.
R 1/4"	14	40	25	11	24	ESI2A 14 NA
R 3/8"	17	42	25	12	29	ESI2A 38 NA
R 1/2"	22	45	25	15	62	ESI2A 12 NA

Plugs with female thread parallel

Thread	Hexagon	l	Plug Length	Thread Length	Weight/pc. g	Type No.
G 1/4"	17	38	25	10	29	ESI2A 14 NI
G 3/8"	19	38	25	10	29	ESI2A 38 NI
G 1/2"	24	40	25	12	44	ESI2A 12 NI

Plugs with hose barb

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	12	51	25	25	17	ESI2A 6 S
8 mm	12	51	25	25	19	ESI2A 8 S
9 mm	12	51	25	25	19	ESI2A 9 S
10 mm	12	51	25	25	22	ESI2A 10 S
13 mm	15	53	25	25	30	ESI2A 13 S

Versions in stainless steel 1.4305 on request.



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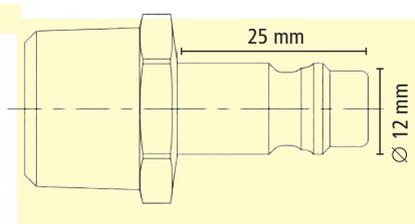
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Plug Profile (original size)

Mini-Quick Connect Couplings

Series **ESMK** with plug and colour codification, single shut-off

DN5

- Mini Quick Connect Couplings of brass MS 58
- For the optical distinction of different medium circulations with coloured and anodised aluminium sleeve on the coupling and coloured and anodised aluminium ring on the plug
- For the absolute avoidance of wrong coupling operations when using different mediums with supplementary plug codification. Only the same-coloured couplings and plugs can be connected.

Materials

- Body, valve body, valve: brass MS 58
- Sleeve: aluminium anodised
- Springs, retaining rings: stainless steel 1.4310; balls: stainless steel 1.3541
- O-rings: NBR others on request
- Plugs: brass MS 58 with anodised aluminium ring

Max. Working Pressure	Temperature	Thread	DN	Flow Capacity	One-hand	Shut-off	Medium	Area	⊕
PN 35 bar	-20°C – +100°C	ISO 228	5	430 l/min	yes	single	divers.	Europe	10



Couplings with male thread

Thread	Hexag.	l	d	Thread L.	Weight/pc. g	Type No.	Type No.	Type No.	Type No.
G 1/8"	14	47	16	7	35	ESMK 18 AG	ESMK 18 ABR	ESMK 18 ABL	ESMK 18 AR
G 1/4"	17	49	16	9	44	ESMK 14 AG	ESMK 14 ABR	ESMK 14 ABL	ESMK 14 AR

Male thread sealing with PVC-packing rings type HPD



Couplings with female thread

Thread	Hexag.	l	d	Thread L.	Weight/pc. g	Type No.	Type No.	Type No.	Type No.
G 1/8"	14	47	16	7	40	ESMK 18 IG	ESMK 18 IBR	ESMK 18 IBL	ESMK 18 IR
G 1/4"	17	49	16	9	46	ESMK 14 IG	ESMK 14 IBR	ESMK 14 IBL	ESMK 14 IR

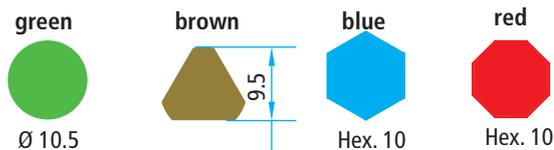


Couplings with hose barb

Hose i.D.	Hexag.	l	d	Stem L.	Weight/pc. g	Type No.	Type No.	Type No.	Type No.
6 mm	14	69	16	17	35	ESMK 6 TG	ESMK 6 TBR	ESMK 6 TBL	ESMK 6 TR
9 mm	14	69	16	17	37	ESMK 9 TG	ESMK 9 TBR	ESMK 9 TBL	ESMK 9 TR

For hose clips type ZOS (⊕ page 106), type HS (⊕ page 107) or crimping ferrules type LPH (⊕ page 109)

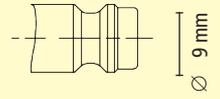
Plug and colour coding in original size



Mini-Quick Connect Couplings

with plug and colour codification **Series ESMK**

DN5



Plug Profile (original size)

Plugs with male thread

Thread	Hexag	l	Thread L.	Weight/pc. g	Type No.	Type No.	Type No.	Type No.
G 1/8"	17	39	7	15	ESMK 18 NAG	ESMK 18 NABR	ESMK 18 NABL	ESMK 18 NAR
G 1/4"	17	41	9	25	ESMK 14 NAG	ESMK 14 NABR	ESMK 14 NABL	ESMK 14 NAR

Male thread sealing with PVC-packing rings type HPD



Plugs with female thread

Thread	Hexag	l	Thread L.	Weight/pc. g	Type No.	Type No.	Type No.	Type No.
G 1/8"	17	38	5	15	ESMK 18 NIG	ESMK 18 NIBR	ESMK 18 NIBL	ESMK 18 NIR
G 1/4"	17	40	7	25	ESMK 14 NIG	ESMK 14 NIBR	ESMK 14 NIBL	ESMK 14 NIR



Plugs with hose barb

Hose i.D.	l	d	Stem L.	Weight/pc. g	Type No.	Type No.	Type No.	Type No.
6 mm	47	15	17	12	ESMK 6 SG	ESMK 6 SBR	ESMK 6 SBL	ESMK 6 SR
9 mm	47	15	17	15	ESMK 9 SG	ESMK 9 SBR	ESMK 9 SBL	ESMK 9 SR

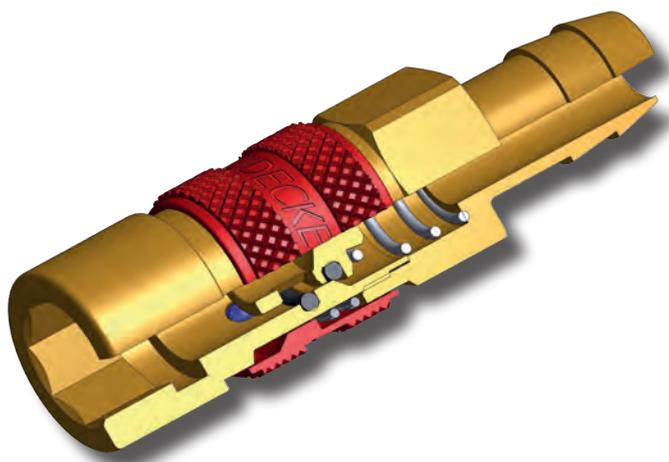
For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)

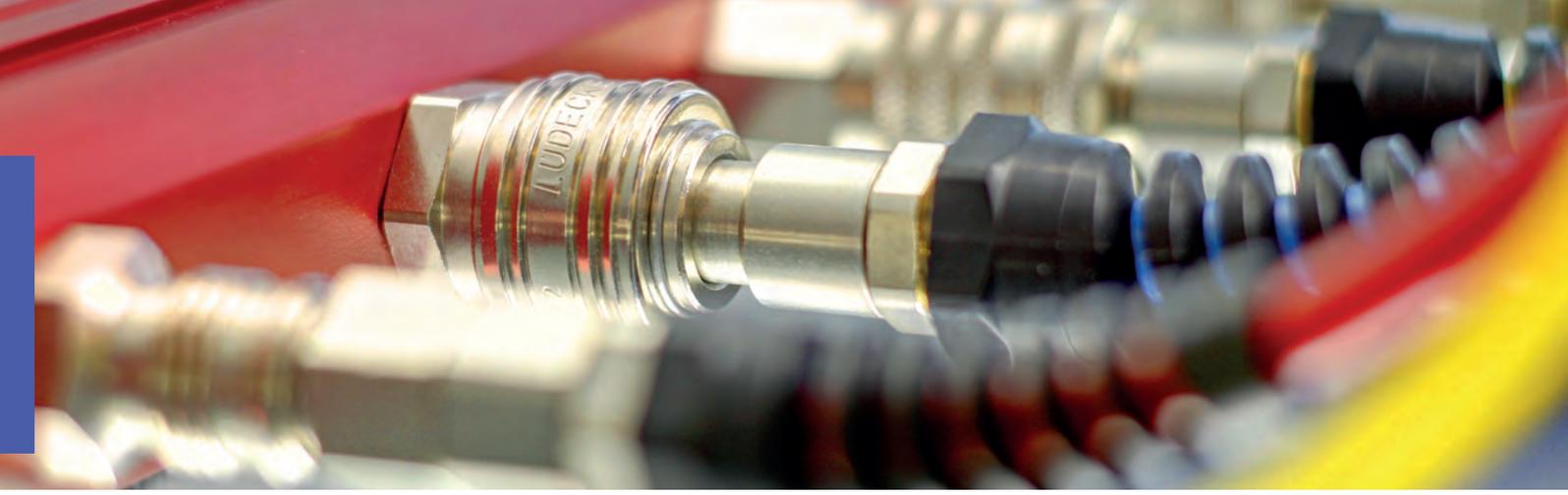


Bulkhead plugs

Hose i.D.	Hexag	l	Stem L.	Thread.	Thread L.	Weight/pc. g	nut	Hex. b
6 mm	17	63	17	M 12 x 1	14	40	17	4
					Type No.	Type No.	Type No.	Type No.
					ESMK 6 SSVG	ESMK 6 SSVBR	ESMK 6 SSVBL	ESMK 6 SSVR

Extra charge for coupling's sealing ring of : EPDM
FKM





The **LUDECKE** Testing Panel

To use in show rooms or training sessions, as well as to present the variety of plug profiles

"Tell me and I will forget.

Show me and I will remember.

Let me try and I will understand."

A true statement consistent to working and everyday life alike. That is why we always aim to communicate our product range as visual and haptic as possible.

For this purpose we developed a so-called, "Testing Panel" - big sample boards, which can show a specific product category that the company represents (i.e. quick connect couplings for compressed air, water fittings, etc).

Your advantages:

- Extensive information about each product and the mode of operation
- Testing of high-quality products under real practice conditions (the coupling procedure may be executed even with a media flowing through the lines)
- Multilingual: German and English (on request also other languages)



The **LUDECKE** Testing Panel:
To inform as well as test and check all the products

Quick Connect coupling systems from DN 2.7 up to DN 10 for **Quality-**, **OptiFlow-** and **SafeConnect-Line**, connected with MODY PU spiral tubing (recommended to use with 3 bar only)

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

LUDECKE
Seit 1930. Die elementare Verbindung.

TESTTABLEAU
Einhand-Schnellverschlusskupplungen
mit Standardsteckprofilen

Zur Druckluftversorgung in Industrie und Handwerk, Pneumatik, Mess-, Regel und Steuerungstechnik

Serien: **ESMC** **ESM** **ES** **ESI** **ESIS** **ESIG**

Werkstoffe:

	ESMC	ESM	ES	ESI	ESIS	ESIG
Anschiessart:	MS 58 vernickelt	MS 58 Messing blank vernickelt	MS 58 Messing blank vernickelt	58 Edelstahl Edelstahl 1.4310	MS 58 vernickelt	MS 58 vernickelt
System, Spannung, Silber- Kupfer:	Edelstahl 1.4310 Edelstahl 1.3541					
Dichtungen: Lagerdichtungen für einzelne Medien auf Anfrage	FKM	FKM	FKM	FKM	FKM	FKM
(Steckprofil)	Edelstahl	Edelstahl	Edelstahl	Edelstahl	Edelstahl	Edelstahl
Max. Betriebsdruck:	3 bar					
Temperatur:	-100P C					
Medium:	Air	Air	Air	Air	Air	Air
Gewindearten:	228DN 13	228DN 13	228DN 13	2999	2999	2999
Durchfluss L/min.:	90 L/min.					
Absperrend:	einstufig schraubfrei	einstufig schraubfrei	einstufig schraubfrei	einstufig schraubfrei	einstufig schraubfrei	einstufig schraubfrei

Technik:

- Hochwertige Kupplungssysteme, robust mit optimaler Abdichtung
- Hohe Durchflusswerte bei geringem Druckabfall durch strömungsgünstige Ventildesigns
- Sonderanfertigungen auf Anfrage

Bedienung:

- Vor jedem Kupplungsengang ist eine visuelle Kontrolle aller Kontakte auf Einschlaglagen vorzunehmen

Kupplung:

- Einhandbedienung
- Der Steckkopf mittig bis Anschlag in die Kupplung einstecken
- Einhandbedienung durch so Richtung Steckkopf einziehen
- Der Steckkopf fest mit einer Hand ziehen
- Der zweiten Hand die Verriegelungshülse-Anschluss schrauben, den Steckkopf ziehen
- Durch das Ziehen des Steckkopfes wird die Kupplung automatisch in ihre Ausgangsposition zurückgeführt
- Bei Trennung des Kupplungssystems unter Druck ist auf ausreichenden Gehörschutz zu achten. Bei falscher Produktwahl, unsachgemäßer Benutzung und unzureichender Wartung können Schäden an Personen und Objekten auftreten.

Warnhinweise:

- Einhandbedienung
- Verwendung erlaubt
- Funktionstüchtiger Zustand muss sichergestellt sein
- Bei Einwirkung des Anwenders in die Funktionsweise
- Bei veränderten Druck in der verbundenen Leitung kann
- Bei Entkopplung eine starke Trennkraft wirken (Rückschlag-Effekt)
- Die Steckkopfe sind in der Hand halten

Steckprofile in Originalgröße

Micro Connect **Basic Connect** **Basic Connect** **Opti Flow** **Safe Connect** **Opti Flow**

Verfügbare Anschlussarten der Kupplungssysteme:

- Außengewinde
- Innengewinde
- Schlauchhülse
- Scherenschnabellösung
- Querschraublösung

LUDECKE MADE IN GERMANY

Sicherheitshinweis: Vorsicht beim Entkoppeln – Verletzungsgefahr durch evtl. Rückschlag des Schlauches!

Mody Spirals
LUDECKE

MOODY-Spiralschläuche
besitzen hervorragende Werkstoffigenschaften für die flexible Druckluftversorgung.

Auch nach schwerster Deformation geht die Polyringstruktur in seine ursprüngliche Form zurück und trägt dadurch wesentlich zur Arbeitssicherheit bei einer Vielzahl von Anwendungen bei.

Efficiency
ENERGY SAVING
EFFICIENCY
COUPLING SOLUTIONS

QUICK CONNECT QUALITY

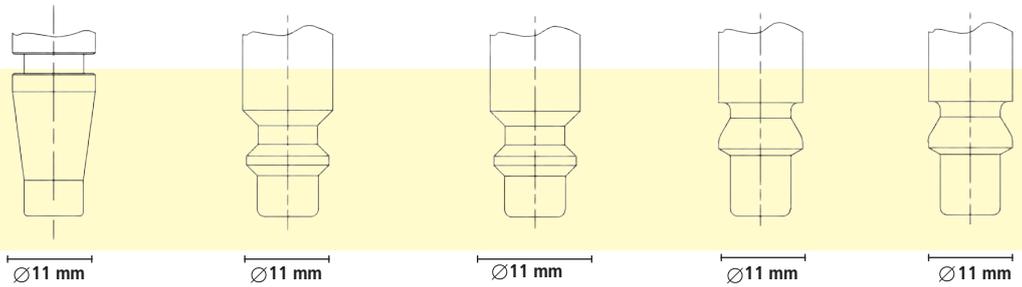
Compressed Air Connection

Application Possibilities (connecting)

LUDECKE Quick Connect Couplings of brass / steel

Overview

Plug profiles original size

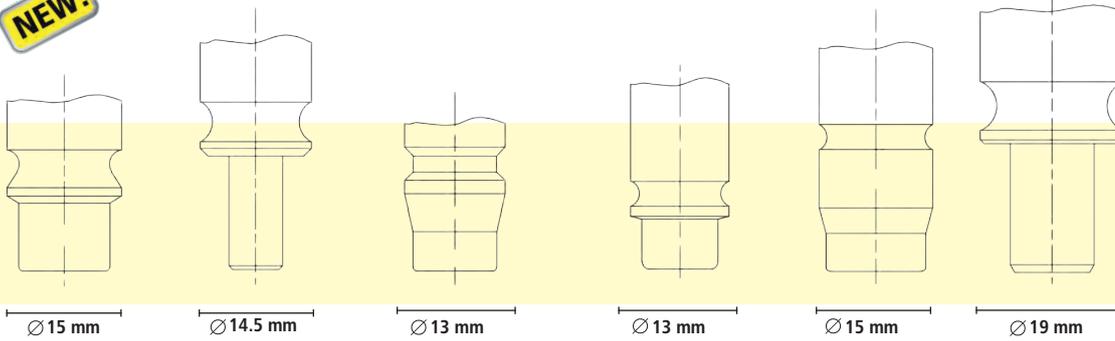


LUDECKE Series	ESBI	ESA	ESAI	ESO	ESOI
DN (mm)	5	5.5	5.5	5.5	5.5
Max. Working Pressure (bar)	35	35	35	35	35
Temperature (Standard Range)	-20 / +100°C	-20 / +100°C	-20 / +100°C	-20 / +100°C	-20 / +100°C
Mat. Couplings	MS 58 brass / steel	MS 58 brass	MS 58 brass / steel	MS 58 brass	MS 58 brass / steel
Mat. Plugs	steel	MS 58 brass / steel	steel	MS 58 brass	steel
Max. Flow-Capacity (6 bar entrance pressure, 0,5 bar pressure drop) (single shut-off type)	950 l/min	775 l/min	1100 l/min	775 l/min	1140 l/min
Automatic Shut-Off	single	single	single	single	single
One-Hand Operation	yes	yes	yes	yes	yes
Norm	-	ISO 6150 B US-MIL-Spec. C 4109 Industr. Interchange 1/4"	ISO 6150 B US-MIL-Spec. C4109 Industr. Interchange 1/4"	ARO 210 Orion 44510	ARO 210 Orion 44510
Interchangeable with	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 14/22 ARO 210 Cejn 300 Orion 44510 Parker 50	Parker Rectus Series 14/22 ARO 210 Cejn 300 Orion 44510 Parker 50
Application Area	Great Britain Europe	USA Spain France	USA Spain France	Benelux Switzerland	Benelux Switzerland
LUDECKE Type No.	ESBI	ESA	ESAI	ESO	ESOI
Catalogue Page	69	70	72	73	74

with International/ other Plug Profiles

NEW!

NEW!



ESOIG	FKO	ESK	ESAC	ESACG	F1K
9	5	7.5	8	10	8
35	35	35	35	35	35
-20 / +100°C	-20 / +100°C	-20 / +100°C	-20 / +100°C	-20 / +100°C	-20/+100°C
MS 58 brass steel	steel steel	MS 58 brass steel	MS 58 brass / steel steel	MS 58 brass / steel steel	steel steel
1400 l/min	750 l/min	1375 l/min	1500 l/min	2600 l/min	1800 L/min
single	single	single	single	single	single
yes	no	yes	yes	yes	no
ARO 310 Orion 44520		Nitto Kohki 200			
Parker Rectus Series 14/22 ARO 210 Cejn 300 Orion 44510 Parker 50		Parker Rectus Series 13/03 Nitto Kohki 200 Cejn 314/315	Parker Rectus Series 33 Atlas Copco QIC 10 QIC 10	Parker Rectus Series 33	
Benelux Switzerland	Germany	Asia	worldwide	worldwide	Germany
ESOIG	FKO	ESK	ESAC	ESACG	F1K
75	76	78	80	81	82



Quick Connect Coupling Systems of brass/ steel with International/ other Plug Profiles



In order to supply the different regions, **LUDECKE** offers Quick Connect Coupling Systems with International/ other plug profiles. These types of coupling systems are available from DN 5 to DN 10 with a valve – subject to your requirements.



Their function is equivalent to the Quick Connect Coupling Systems with standard plug profiles:

In order to connect, simply push the plug into the coupling. To disconnect, release the sleeve and hold the plug.

Industrial Quick Connect Couplings

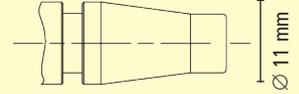
single shut-off Series ESBI

- High-quality, extreme robust Quick Connect Couplings with British standard profile
- High flow rate at a low pressure drop rate due to optimized flow rate and OptiFlow valve
- Special versions on request i.e. couplings with free passage
- For the supply of compressed air or other fluids in industry and handcraft

DN5

Materials

- Body, valve: MS 58 nickel-plated; valve body: steel hardened and nickel-plated
- Sleeve: hardened steel and nickel-plated
- Springs: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: NBR (other materials on request)
- Plugs: hardened steel and nickel-plated



Plug profile original size

Max. Work. Pressure	Temperature	Medium	DN	Threads	Norm	Flow Capacity	One-Hand	Shut-Off	Area	
PN 35 bar	-20°C – +100°C	different	5	ISO228 / DIN2999	British standard	950 l/min	yes	single	Europe	Coupl. 5 / Plug 10

Couplings with male thread tapered (thread coated)

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
R 1/4"	19	63	23	12	90	ESBI 14 A
R 3/8"	19	63	23	12	92	ESBI 38 A
R 1/2"	22	68	23	17	105	ESBI 12 A

Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	19	58	23	9	110	ESBI 14 I
G 3/8"	19	58	23	9	105	ESBI 38 I
G 1/2"	24	61	23	12	120	ESBI 12 I

Couplings with hose barb

Hose i.D.	Hexagon	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	19	76	23	25	93	ESBI 6 T
8 mm	19	76	23	25	93	ESBI 8 T
10 mm	19	76	23	25	95	ESBI 10 T
13 mm	19	76	23	25	100	ESBI 13 T

For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)

Plugs with male thread tapered (thread coated)

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
R 1/8"	11	37	9	28	16	ESBI 18 NAS
R 1/4"	14	40	12	28	20	ESBI 14 NAS
R 3/8"	17	40	12	28	25	ESBI 38 NAS

Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	14	35	7	28	18	ESBI 18 NIS
G 1/4"	17	37	9	28	26	ESBI 14 NIS
G 3/8"	19	37	9	28	27	ESBI 38 NIS

Plugs with hose barb

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	12	52	24	28	15	ESBI 6 SS
8 mm	12	52	24	28	20	ESBI 8 SS
10 mm	12	52	24	28	20	ESBI 10 SS

For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)



Quick Connect Couplings

Series ESA US-Design

DN5.5

single shut-off

- Thread types available with NPT or BSP-threads
- Sleeve design protects the coupling from dirt
- New hose barb profile for safe fit of hose and easy assembly
- For compressed air lines in industry, construction, garages...

Materials

- Body, sleeve, valve body, valve: MS 58 brass
- Springs: stainless steel 1.4310, balls: stainless steel 1.4035
- O-rings: NBR
- Plugs: MS 58 brass or steel zinc-plated and yellow passivated (free of chrome VI)

Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Norm	Area	
PN 35 bar	-20°C – +100°C	compr. air	5,5	ISO 228 / NPT	775l/ min	yes	single	1	USA, partly Europe	10

Couplings with male thread



Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	22	40	27	9	75	ESA 14 AR
G 3/8"	22	41	27	10	78	ESA 38 AR
G 1/2"	24	41	27	10	88	ESA 12 AR
1/4" NPT	22	45	27	13.5	81	ESA 14 A
3/8" NPT	22	46	27	14.5	84	ESA 38 A
1/2" NPT	22	50	27	18	105	ESA 12 A

Male thread sealing for ISO 228 threads with PVC-packing rings type HPD (☺ page 189)

Couplings with female thread



Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	22	41	27	10.5	93	ESA 14 IR
G 3/8"	22	41	27	10.5	89	ESA 38 IR
G 1/2"	24	41	27	10.5	91	ESA 12 IR
1/4" NPT	22	43.5	27	13.5	101	ESA 14 I
3/8" NPT	22	45	27	14.5	96	ESA 38 I
1/2" NPT	24	48	27	18	103	ESA 12 I

Couplings with hose barb



Hose i.D.	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	55	27	25	66	ESA 6 T
8 mm	55	27	25	68	ESA 8 T
9 mm	55	27	25	70	ESA 9 T
13 mm	55	27	25	76	ESA 13 T

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

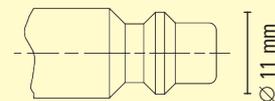
According to:

- 1 US-Mil.-Spec. C4109
- ISO 6150 B

Quick Connect Couplings US-Design Series ESA

single shut-off

DN5.5



Plug profile (original size)

Plugs with male thread

Thread	Hexagon	l	Thread Length.	Plug Length.	Material	Weight/pc. g	Type No.
G 1/8"	13	35	7	24	MS 58	19	ESA 18 NAR
G 1/4"	17	37	9	24	MS 58	23	ESA 14 NAR
G 3/8"	19	38	9	24	MS 58	31	ESA 38 NAR
1/8" NPT	13	38	9.5	24	MS 58	23	ESA 18 NA
1/4" NPT	14	41	13	24	MS 58	25	ESA 14 NA
3/8" NPT	17	42	13	24	MS 58	31	ESA 38 NA
1/4" NPT	14	41	13	24	steel	22	ESA 14 NAS

Male thread sealing for ISO 228 threads with PVC-packing rings type HPD (☺ page 189)



Plugs with female thread

Thread	Hexagon	l	Thread Length.	Plug Length.	Material	Weight/pc. g	Type No.
G 1/8"	13	35	9	24	MS 58	18	ESA 18 NIR
G 1/4"	17	38	12	24	MS 58	27	ESA 14 NIR
G 3/8"	19	39	12	24	MS 58	26	ESA 38 NIR
1/8" NPT	13	35	10	24	MS 58	20	ESA 18 NI
1/4" NPT	17	40	14	24	MS 58	29	ESA 14 NI
3/8" NPT	21	42	15	24	MS 58	40	ESA 38 NI
1/4" NPT	17	40	14	24	steel	27	ESA 14 NIS



Plugs with hose barb

Hose i.D.	l	Stem Length.	Plug Length.	Material	Weight/pc. g	Type No.
6 mm	49	25	24	MS 58	17	ESA 6 S
9 mm	48	24	24	MS 58	21	ESA 9 S
13 mm	48	23	24	MS 58	29	ESA 13 S
6 mm	49	25	24	steel	16	ESA 6 SS
9 mm	48	24	24	steel	19	ESA 9 SS
13 mm	48	23	24	steel	26	ESA 13 SS

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



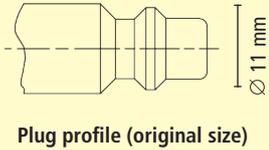
Special versions on request.

Industrial Quick Connect Couplings

Series ESAI single shut-off, US-Design

DN 5.5

- According to ISO 6150 B resp. US Mil. Spec. 4109
- High-quality, extreme robust Quick Connect Couplings with superior seal characteristic
- High flow rate at a low pressure drop rate due to optimized passage and streamlined valve
- Special versions on request i.e. couplings with free passage
- For the supply of compressed air or other fluids in industry and handcraft



Materials

- Body, valve body, valve: MS 58 brass nickel-plated
- Sleeve: hardened steel nickel-plated
- Springs: stainless steel 1.4310, balls: stainless steel 1.4034
- O-rings: NBR, other materials on request
- Plugs: hardened steel and brass nickel-plated

Max. Work. Pressure	Temperature	Medium	DN	Threads	Norm	Flow Capacity	One-Hand	Shut-Off	Area	
PN 35 bar	20°C – +100°C	compr. air	5.5	ISO 228/DIN 2999	1	1100 l/min	yes	single	worldwide	Coupl. 5 / Plug 10

Couplings with male thread tapered (thread coated)

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
R 1/4"	19	60	23	11	95	ESAI 14 A
R 3/8"	19	60	23	12	98	ESAI 38 A
R 1/2"	22	63	23	17	120	ESAI 12 A

Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	19	57	23	10	110	ESAI 14 I
G 3/8"	19	57	23	10	105	ESAI 38 I
G 1/2"	24	59	23	12	120	ESAI 12 I

Couplings with hose barb

Hose i.D.	Hexagon	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	19	73	23	25	92	ESAI 6 T
8 mm	19	73	23	25	95	ESAI 8 T
9 mm	19	73	23	25	96	ESAI 9 T
10 mm	19	73	23	25	99	ESAI 10 T
13 mm	19	73	23	25	105	ESAI 13 T

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Plugs with male thread tapered (thread coated)

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
R 1/8"	13	38	9	24	19	ESAI 18 NAS
R 1/4"	14	41	12	24	25	ESAI 14 NAS
R 3/8"	17	42	13	24	35	ESAI 38 NAS
R 1/2"	22	48	17	24	55	ESAI 12 NAS

Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	14	36	9	24	22	ESAI 18 NIS
G 1/4"	17	36	9	24	25	ESAI 14 NIS
G 3/8"	19	36	9	24	25	ESAI 38 NIS
G 1/2"	24	39	12	24	40	ESAI 12 NIS

Plugs with hose barb

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	14	48	23	24	15	ESAI 6 SS
8 mm	14	48	23	24	17	ESAI 8 SS
9 mm	14	48	23	24	18	ESAI 9 SS
10 mm	14	48	23	24	20	ESAI 10 SS
13 mm	14	48	23	24	25	ESAI 13 SS

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

1 ISO 6150 B, US-MIL-Spec. C4109

Quick Connect Couplings ORION | ARO

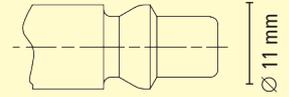
Series ESO single shut-off

DN5.5

- Interchangeable to ARO 210, ORION 44510
- New sleeve profile, closed sleeve protects the couplings from dirt
- New stem profile for safe fit of the hose and easy assembly
- For compressed air lines in industry, construction, garages ...

Materials

- Body, sleeve, valve body, valve: MS 58
- Springs: stainless steel 1.4310; pins: stainless steel 1.4035
- O-rings: NBR
- Plugs: MS 58 brass



Plug profile original size

Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Norm	Area	
PN 35 bar	-20°C – +100°C	compr. air	5.5	ISO 228	775 l/min	yes	single	1	Benelux, Switzerland	10

Couplings with male thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	22	42	27	9	85	ESO 14 A
G 3/8"	22	43	27	10	90	ESO 38 A
G 1/2"	24	43	27	10	105	ESO 12 A

Male thread sealing with PVC-packing rings type HPD (☺ page 189)



Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	22	43	27	10.5	104	ESO 14 I
G 3/8"	22	43	27	10.5	108	ESO 38 I
G 1/2"	24	44.5	27	12	120	ESO 12 I



Couplings with hose barb

Hose i.D.	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	57	27	25	77	ESO 6 T
8 mm	57	27	25	80	ESO 8 T
9 mm	57	27	25	82	ESO 9 T
10 mm	57	27	25	85	ESO 10 T

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Plugs with male thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	13	33	6	22	16	ESO 18 NA
G 1/4"	17	35	8	22	21	ESO 14 NA
G 3/8"	19	35	8	22	26	ESO 38 NA

Male thread sealing with PVC-packing rings type HPD (☺ page 189)



Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/4"	17	34	9	22	23	ESO 14 NI
G 3/8"	19	34	9	22	23	ESO 38 NI



Plugs with hose barb

Hose i.D.	l	d	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	47	11	22	22	14	ESO 6 S
8 mm	47	11	22	22	15	ESO 8 S
9 mm	47	11	22	22	16	ESO 9 S
10 mm	47	11	22	22	18	ESO 10 S

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



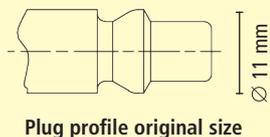
Special versions on request.

1 ARO 210, ORION 44510

Industrial Quick Connect Couplings ORION | ARO

single shut-off Series ESOI

DN 5.5



- Interchangeable with ARO 210, ORION 44510
- High-quality, extreme robust Quick Connect Couplings with superior seal characteristic
- High flow rate at a low pressure drop rate due to optimized passage and streamlined valve
- Special versions on request i.e. couplings with free passage
- For the supply of compressed air or other fluids in industry and handcraft

Materials

- Body, valve body, valve: MS 58 nickel-plated
- Sleeve: hardened steel and nickel-plated
- Springs: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: NBR, other materials on request
- Plugs: hardened steel and nickel-plated brass

Max. Work. Pressure	Temperature	Medium	DN	Threads	Norm	Flow Capacity	One-Hand	Shut-Off	Area	
PN 35 bar	20°C – +100°C	compr. air	5.5	ISO228 / DIN2999	•	1140 l/min	yes	single	Europe	Coupl. 5 / Plug 10

Couplings with male thread tapered (thread coated)

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
R 1/4"	19	61	23	11	95	ESOI 14 A
R 3/8"	19	61	23	12	98	ESOI 38 A
R 1/2"	22	64	23	15	120	ESOI 12 A

Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	19	58	23	10	110	ESOI 14 I
G 3/8"	19	58	23	10	105	ESOI 38 I
G 1/2"	24	60	23	12	120	ESOI 12 I

Couplings with hose barb

Hose i.D.	Hexagon	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	19	74	23	25	92	ESOI 6 T
8 mm	19	74	23	25	95	ESOI 8 T
9 mm	19	74	23	25	96	ESOI 9 T
10 mm	19	74	23	25	99	ESOI 10 T
13 mm	19	74	23	25	105	ESOI 13 T

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Plugs with male thread tapered (thread coated)

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
R 1/4"	14	39	12	22	21	ESOI 14 NAS
R 3/8"	17	39	12	22	26	ESOI 38 NAS
R 1/2"	22	42	15	22	40	ESOI 12 NAS

Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/4"	17	35	10	22	23	ESOI 14 NIS
G 3/8"	19	35	10	22	23	ESOI 38 NIS
G 1/2"	24	37	12	22	37	ESOI 12 NIS

Plugs with hose barb

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	11	47	24	22	14	ESOI 6 SS
8 mm	11	47	24	22	15	ESOI 8 SS
9 mm	11	47	24	22	16	ESOI 9 SS
10 mm	11	47	24	22	18	ESOI 10 SS
13 mm	11	49	24	22	24	ESOI 13 SS

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

• ARO 210, ORION 44510

Industrial Quick Connect Couplings ORION / ARO

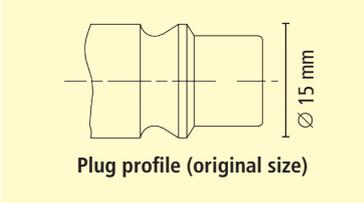
single shut-off **Series ESOIG**

DN 9

- High-quality, extreme robust Quick-Connect Couplings made of brass MS 58 (on demand nickel-plated) with superior seal characteristics
- Interchangeable with ARO 210, ORION 44510
- High flow rate at a low pressure drop rate due to streamlined valve and optimized passage
- **For the supply of compressed air or other fluids in industry and handcraft**

Materials

- Body, valve body, valve, sleeve: MS 58 brass
- Springs, retaining rings: stainless steel 1.4310; pins: stainless steel 1.4305
- O-rings: Perbunan, other compounds on request
- Plugs: hardened steel and nickel-plated brass



Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Area	⊗
PN 35 bar	-20°C – +100°C	compr. air	9	ISO 228/ DIN 2999	1400l/ min	yes	single	Europe	10

Couplings with female thread

Thread	⊕Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 3/8"	27	46	32	10	164	ESOIG 38 I
G 1/2"	27	46	32	11	155	ESOIG 12 I

Plugs with male thread tapered (thread coated)

Thread	⊕Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 3/8"	17	40	12	23	40	ESOIG 38 NAS
G 1/2"	22	46	17	23	54	ESOIG 12 NAS

Plugs with female thread

Thread	⊕Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 3/8"	19	35	9	23	28	ESOIG 38 NIS
G 1/2"	24	39	12	23	48	ESOIG 12 NIS

Plugs with female thread

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
10 mm	16	51	25	23	25	ESOIG 10 SS
13 mm	16	51	25	23	33	ESOIG 13 SS
19 mm	19	51	25	23	44	ESOIG 19 SS

For hose clips type ZOS (⊗ page 106), type HS (⊗ page 107) or crimping ferrules type LPH (⊗ page 109)



Quick Connect Couplings

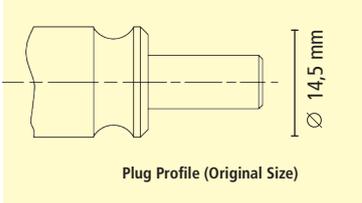
of steel, single shut-off **Series FKO**

DN5

- Extreme robust couplings for hardest working conditions, i.e. in foundries

Materials

- Body, sleeve, valve body: steel zinc-plated and yellow passivated (free of chrome VI)
- Springs: stainless steel 1.4310, balls: stainless steel 1.3541
- Valve: MS 58
- O-rings: NBR
- Plugs: steel zinc-plated and yellow passivated (free of chrome VI)



Max. Working Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Area	Material	⊕
PN 35 bar	-20°C – +100°C	compr. air	5	ISO228	750 l/min	no	single	Germany	Steel	10



Couplings with male thread

Thread	Hexagon	l	d	Weight/pc. g	Type No.
G 1/4"	17	60	27.5	107	FKO 14
G 3/8"	19	60	27.5	113	FKO 38

Male thread sealing with PVC-packing rings type HPD (⊕ page 189)



Plugs with male thread

Thread	Hexagon	l	Weight/pc. g	Type No.
G 1/4"	17	46	33	FKO 14 G
G 3/8"	19	46	42	FKO 38 G

Male thread sealing with PVC-packing rings type HPD (⊕ page 189)



Plugs with hose barb

Hose i.D.	l	d	Weight/pc. g	Type No.
6 mm	55	14.5	21	FKO 6 S
9 mm	55	14.5	24	FKO 9 S

For hose clips type ZOS (⊕ page 106), type HS (⊕ page 107) or crimping ferrules type LPH (⊕ page 109)



Quick Connect Couplings Nitto Type

Series ESK single shut-off

DN7.5

- Quick Connect Couplings, mainly used in the Asian market, interchangeable with type Nitto Kohki, one-hand operation.
- For compressed air lines in industry or garages

Materials

- Body, valve body, valve: MS 58 brass nickel-plated
- Sleeve: MS 58 brass nickel-plated
- Spring, retaining ring: stainless steel 1.4310; pins: stainless steel 1.4305
- O-rings: Perbunan
- Plugs: hardened steel and nickel-plated brass

Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Area	
PN 35 bar	-20°C – +100°C	compr. air	7.5	ISO228 / DIN2999	1375 l/min	yes	single	Asia	10

Couplings with male thread tapered (thread-coated), coated environmentally friendly with Loctite

Thread	Hexagon	l	Thread Length	d	Weight/pc. g	Type No.
R 1/4"	22	46.5	11	27	81	ESK 14 AB
R 3/8"	22	47.5	12	27	84	ESK 38 AB
R 1/2"	22	47.5	12	27	100	ESK 12 AB



Couplings with female thread

Thread	Hexagon	l	Thread Length	d	Weight/pc. g	Type No.
G 1/4"	22	45.5	10.5	27	96	ESK 14 I
G 3/8"	22	45.5	10.5	27	90	ESK 38 I
G 1/2"	24	47	12	27	90	ESK 12 I



Couplings with hose barb

Hose i.D.	l	Stem Length	d	Weight/pc. g	Type No.
6 mm	59.5	25	27	69	ESK 6 T
8 mm	59.5	25	27	73	ESK 8 T
10 mm	59.5	25	27	75	ESK 10 T
13 mm	59.5	25	27	80	ESK 13 T

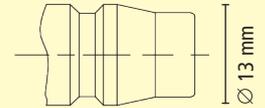
For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Quick Connect Couplings Nitto Type

single shut-off **Series ESK**

DN7.5



Plug profile (original size)

Plugs with male thread, hardened and nickel-plated steel

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
R 1/4"	14	37	11	20.2	20	ESK 14 NAS
R 3/8"	17	38	12	20.2	28	ESK 38 NAS
R 1/2"	22	41	15	20.2	46	ESK 12 NAS

Plugs with female thread, hardened and nickel-plated steel

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/4"	17	34	10.5	20.2	25	ESK 14 NIS
G 3/8"	19	34	10.5	20.2	25	ESK 38 NIS
G 1/2"	24	36	12	20.2	38	ESK 12 NIS

Plugs with hose barb, hardened and nickel-plated steel

Hose i.D.	l	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	48	25	20.2	21	ESK 6 SS
8 mm	48	25	20.2	21	ESK 8 SS
10 mm	48	25	20.2	24	ESK 10 SS
13 mm	48	25	20.2	24	ESK 13 SS

For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)



Industrial Quick Connect Couplings

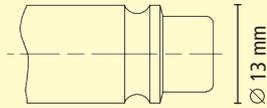
Series ESAC single shut-off, System "Atlas Copco"

DN8

- High-quality, extreme robust Quick Connect Couplings with superior seal characteristic
- Extremely high flow rate at a low pressure drop rate due to optimized passage and streamlined valve
- Special versions on request i.e. couplings with free passage
- For the supply of compressed air in industry and handcraft at extraction points with high need of compressed air for high-performance tools as well as in engineering and construction

Materials

- Body Valve: MS 58 brass nickel-plated,
Valve body: steel, zinc-plated
- Sleeve: hardened steel and nickel-plated
- Springs: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: NBR, other materials on request
- Plugs: hardened steel and zinc-plated



Plug profile (original size)

Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Area	
PN 35 bar	-20°C – +100°C	compr. air	8	SO228 / DIN2999	1500 l/min	yes	single	Europe	Coupl. 5 / Plug 10

Couplings with male thread tapered (thread coated)

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
R 1/4"	19	62	23	11	105	ESAC 14 A
R 3/8"	19	62	23	12	108	ESAC 38 A
R 1/2"	22	65	23	15	130	ESAC 12 A

Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
G 1/4"	19	59	23	10	115	ESAC 14 I
G 3/8"	19	59	23	10	112	ESAC 38 I
G 1/2"	24	61	23	12	135	ESAC 12 I

Couplings with hose barb

Hose i.D.	Hexagon	l	d	Stem Length	Weight/pc. g	Type No.
6 mm	19	75	23	25	98	ESAC 6 T
8 mm	19	75	23	25	100	ESAC 8 T
10 mm	19	75	23	25	110	ESAC 10 T
13 mm	19	75	23	25	115	ESAC 13 T

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Plugs with male thread tapered (thread coated)

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
R 1/8"	14	39	9	24.5	22	ESAC 18 NAS
R 1/4"	14	42	12	24.5	25	ESAC 14 NAS
R 3/8"	17	42	12	24.5	35	ESAC 38 NAS
G 1/2"	22	47	17	24.5	45	ESAC 12 NAS

Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	14	37	9	24.5	26	ESAC 18 NIS
G 1/4"	17	37	9	24.5	26	ESAC 14 NIS
G 3/8"	19	37	9	24.5	26	ESAC 38 NIS
G 1/2"	24	40	12	24.5	38	ESAC 12 NIS

Plugs with hose barb

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
6 mm	14	52	25	24.5	18	ESAC 6 SS
8 mm	14	52	25	24.5	19	ESAC 8 SS
10 mm	15	52	25	24.5	21	ESAC 10 SS
13 mm	15	52	25	24.5	26	ESAC 13 SS

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



d



d



d



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d

Industrial Quick Connect Couplings

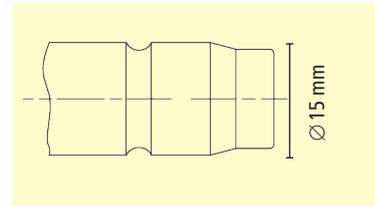
Serie ESACG single shut-off, System "Atlas Copco"

- High-quality, extreme robust Quick Connect Couplings with superior seal characteristics
- Extremely high flow rate at a low pressure drop due to streamlined valve and optimized passage
- For the supply of compressed air in industry and handcraft with requirements of high compressed air consumption/ high-performance tools or machines

DN 10

Materials

- Body valve: MS 58 brass nickel-plated; valve body: steel zinc-plated, sleeve: MS 58 brass
- Sleeve: hardened steel nickel-plated
- O-rings: Perbunan, other compounds on request
- Springs: stainless steel 1.4310, balls: stainless steel 1.4034
- Plugs: hardened steel zinc-plated



Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Area	
PN 35 bar	-20°C – +100°C	compr. air	10	ISO228 / DIN2999	2600 l/min	yes	single	Europa	Kuppl. 5 / Stecker 10

Couplings with male thread tapered (thread coated)

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
R 3/8"	24	71	27	12	162	ESACG 38 A
R 1/2"	24	73	27	17	165	ESACG 12 A
R 3/4"	27	73	27	17	194	ESACG 34 A



Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
R 3/8"	24	65	27	11	164	ESACG 38 I
R 1/2"	24	65	27	12	154	ESACG 12 I
R 3/4"	32	69	27	16	219	ESACG 34 I



Couplings with hose barb

SLW	Hexagon	l	d	Tüllenlänge	St.gew. g	Art.Nr.
8 mm	24	85	27	25	158	ESACG 8 T
10 mm	24	85	27	25	160	ESACG 10 T
13 mm	24	85	27	25	165	ESACG 13 T
19 mm	24	85	27	25	173	ESACG 19 T



For hose clips type ZOS (☉ page 106), type HS (☉ page 107) or crimping ferrules type LPH (☉ page 109)

Plugs with male thread tapered (thread coated)

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
R 3/8"	19	46	12	28	41	ESACG 38 NAS
R 1/2"	22	52	17	28	64	ESACG 12 NAS
R 3/4"	27	54	19	28	85	ESACG 34 NAS



Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
R 3/8"	19	40	9	28	32	ESACG 38 NIS
R 1/2"	24	44	12	28	51	ESACG 12 NIS
R 3/4"	32	49	16	28	100	ESACG 34 NIS



Plugs with hose barb

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
8 mm	15	55	24	28	28	ESACG 8 SS
10 mm	15	55	25	28	26	ESACG 10 SS
13 mm	15	55	25	28	30	ESACG 13 SS
16 mm	18	55	25	28	35	ESACG 16 SS



For hose clips type ZOS (☉ page 106), type HS (☉ page 107) or crimping ferrules type LPH (☉ page 109)

Quick Connect Couplings

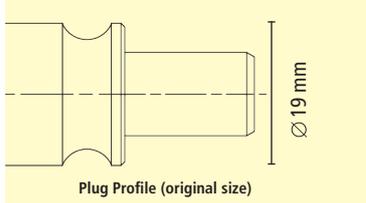
Steel, single shut-off **Series F1K**

DN8

- Extreme robust couplings for hardest working conditions i.e. in foundries

Materials

- Body, sleeve, valve body: steel zinc-plated and yellow passivated (free of chrome VI)
- Springs: stainless steel 1.4310; balls: stainless steel 1.4034
- Valve: MS 58 brass
- O-rings: NBR
- Plugs: steel zinc-plated and yellow passivated (free of chrome VI)



Max. Work. Pressure	Temperature	Medium	DN	Threads	Flow Capacity	One-Hand	Shut-Off	Area	Material
PN 35 bar	-20°C – +100°C	compr.air	5	ISO 228	1800 l/min	no	single	Germany	Steel

Couplings with male thread

Thread	Hexagon	l	d	Weight/pc. g	Type No.
G 3/8"	24	67	37	240	F1K
G 1/2"	24	67	37	245	F12K

Male thread sealing with PVC-packing rings type HPD (☺ page 189)

Plugs with male thread

Thread	Hexagon	l	Weight/pc. g	Type No.
G 3/8"	19	51	54	F1K 38 G

Male thread sealing with PVC-packing rings type HPD (☺ page 189)

Plugs with female thread

Thread	Hexagon	l	Weight/pc. g	Type No.
G 1/4"	19	51	60	F1K 14 GI
G 3/8"	22	51	69	F1K 38 GI

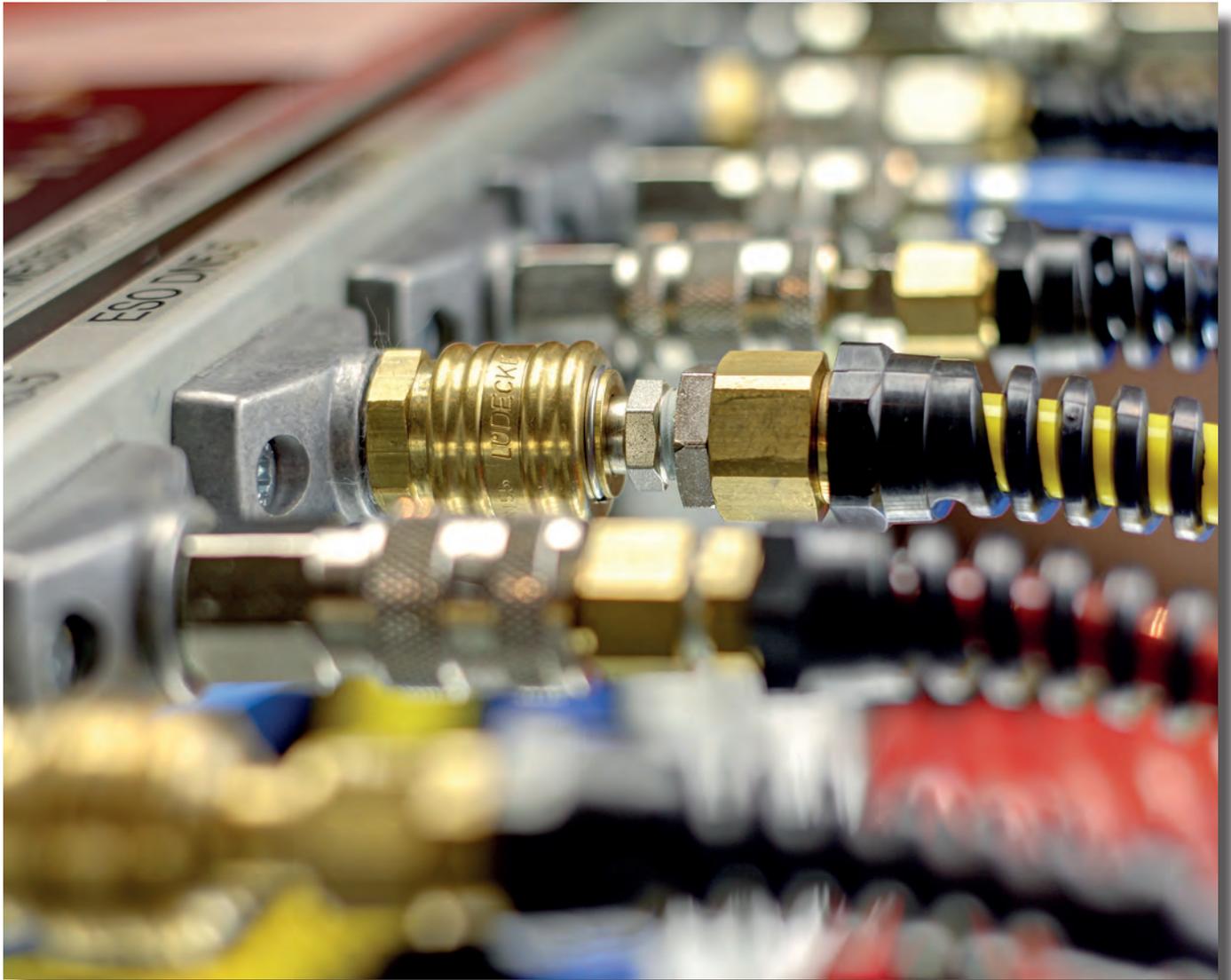
Plugs with hose barb

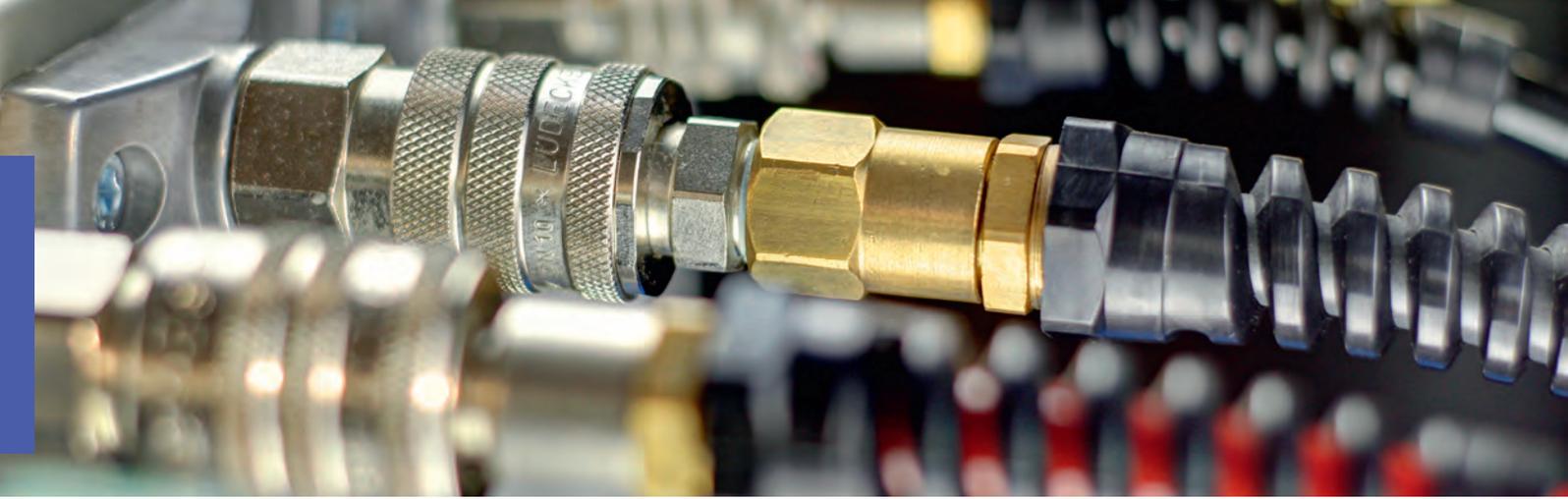
Hose i.D.	l	d	Weight/pc. g	Type No.
6 mm	60	19	39	F1K 6 S
9 mm	60	19	39	F1K 9 S
11 mm	60	19	43	F1K 11 S
13 mm	60	19	45	F1K 13 S

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Special versions on request.

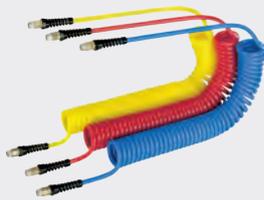






Accessories

MODY-Spiral Hoses



Mody Spiral Hoses have excellent material characteristics for a flexible supply of compressed air. Even after worst deformation the Mody spiral hose goes back into its original shape. Hoses lying on the floor are constantly causing a risk for stumbling or tripping. Despite its enormous reach, spiral hoses contribute significantly to safety at work. High quality, retractable and possible rotatable fittings with anti-kink spring are absolutely essential for security and durability. Assembly on the ceiling ensures optimum performance of work stations.

(© page 85-91)

Blow-off guns



For thorough and fast cleaning or drying of work pieces and working places, compressed air guns or valves are used in industry or crafts. According to the area of application, robust aluminium or brass guns and valves are used for rough operation. With sensitive surfaces, plastic guns are recommended to avoid scratching. Various types of nozzles offer the right dosage, the required air volume, the necessary noise reduction or the directed security. For flexible use, a combination with MODY-spiral hoses is recommended.

(© page 92-96)

Pneumatic Fittings



We offer an extensive range of connecting fittings made of brass for various fields and applications.

(© page 97 - 104)

Miniature Ball-Valves



Ball-Valves serve as shut-off fittings in pipe-systems for compressed air and other media. They seal through PTFE-shells and are especially suited for use in industrial installations.

The compact control lever miniature ball-valves enable the usage in very confined spaces.

(© page 105)

Hose Clamps and Clips / Ferrules



For hose assembly of fittings different assembly methods from strong clamps to light clips or ferrules can be used subject application, medium, pressure or hose material.

Selection Criteria are:

removable or non-removable, quickness, necessary devices (i.e. crimping machine), or injury risk free (i.e. by outstanding screws).

(© page 106 - 109)

Compressed air Blow-off Sets

both sides with straight ends

- MODY-Spiral Hose with Quick Connect Plug DN 7.2 on short end (10 cm) and Blow-off Gun on long end (50 cm) completely assembled
- Extraordinary elasticity and flexibility of the polyurethane MODY Spiral Hose
- Space-Saving despite of enormous reach
- Polyamid bend and scratch protection
- Clean, safe and easy to store in individual packing
- High quality, robust and handy Blow-off Guns
- For cleaning of working places and parts in industry, garages, and more

Max. Working Pressure	Temperature	Medium	Connection	Blow-off Gun	Material Hose	
PN 10 bar	-10°C – +85°C	compressed air	ES-DN 7.2	APNO/APKO	Polyurethane	1

MODY-Blow-off Sets blue with Quick-Connect Plug DN 7.2 and Blow-off Gun APNO completely assembled

Hose i.D./o.D.	Max. Working Length	Block Length	Outer Spiral \varnothing	Weight/pc. g	Type No.
5/8 mm	3 m	260 mm	36 mm	586	PUB 583 APN
5/8 mm	6 m	510 mm	36 mm	710	PUB 586 APN
6.5/10 mm	3 m	230 mm	52 mm	702	PUB 65103 APN
6.5/10 mm	6 m	490 mm	52 mm	887	PUB 65106 APN



MODY-Blow-off Sets yellow with Quick-Connect Plug DN 7.2 and Blow-off Gun APNO completely assembled

Hose i.D./o.D.	Max. Working Length	Block Length	Outer Spiral \varnothing	Weight/pc. g	Type No.
5/8 mm	3 m	260 mm	36 mm	586	PUG 583 APN
5/8 mm	6 m	510 mm	36 mm	710	PUG 586 APN
6.5/10 mm	3 m	230 mm	52 mm	702	PUG 65103 APN
6.5/10 mm	6 m	490 mm	52 mm	887	PUG 65106 APN



MODY-Blow-off Sets red with Quick-Connect Plug DN 7.2 and Blow-off Gun APKO completely assembled

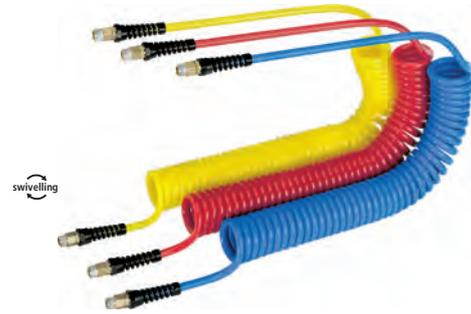
Hose i.D./o.D.	Max. Working Length	Block Length	Outer Spiral \varnothing	Weight/pc. g	Type No.
5/8 mm	3 m	260 mm	36 mm	436	PUR 583 APK
5/8 mm	6 m	510 mm	36 mm	560	PUR 586 APK
6.5/10 mm	3 m	230 mm	52 mm	552	PUR 65103 APK
6.5/10 mm	6 m	490 mm	52 mm	737	PUR 65106 APK



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

LUDECKE MODY-Spiral Hoses made of Polyurethane both ends with straight ends

Max. Working Pressure	Temperature	Medium	Material	Colours	Short End	Long End	
PN 10 bar	-20°C – +85°C	compressed air a.o.	Polyurethane	blue, yellow, red	10 cm	50 cm	1



MODY-Spiral Hoses with swivelling screwings on both sides assembled

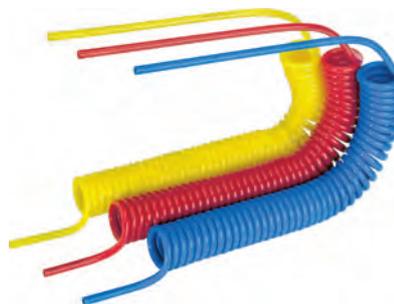
Hose i.D./o.D.	Hose Length		Outer Spiral \varnothing				Weight/pc. g	Thread	
	Max. Working L.	Block Length		Type No. blue	Type No. yellow	Type No. red			
4/6	3 m	4.5 m	370 mm	33 mm	PUB 463 DVK	PUG 463 DVK	PUR 463 DVK	310	R 1/4" m
4/6	6 m	7.5 m	480 mm	33 mm	PUB 466 DVK	PUG 466 DVK	PUR 466 DVK	350	R 1/4" m
5/8	3 m	4.5 m	320 mm	36 mm	PUB 583 DVK	PUG 583 DVK	PUR 583 DVK	380	R 1/4" m
5/8	6 m	7.5 m	610 mm	36 mm	PUB 586 DVK	PUG 586 DVK	PUR 586 DVK	500	R 1/4" m
6.5/10	3 m	4.5 m	320 mm	52 mm	PUB 65103 DVK	PUG 65103 DVK	PUR 65103 DVK	500	R 1/4" m
6.5/10	6 m	7.5 m	550 mm	52 mm	PUB 65106 DVK	PUG 65106 DVK	PUR 65106 DVK	690	R 1/4" m
6.5/10	8 m	10 m	660 mm	52 mm	PUB 65108 DVK	PUG 65108 DVK	PUR 65108 DVK	800	R 1/4" m
8/12	3 m	4.5 m	270 mm	65 mm	PUB 8123 DVK	PUG 8123 DVK	PUR 8123 DVK	650	R 3/8" m
8/12	6 m	7.5 m	550 mm	65 mm	PUB 8126 DVK	PUG 8126 DVK	PUR 8126 DVK	1030	R 3/8" m
8/12	8 m	10 m	620 mm	65 mm	PUB 8128 DVK	PUG 8128 DVK	PUR 8128 DVK	1150	R 3/8" m
9/13	3 m	4.5 m	280 mm	68 mm	PUB 9133 DVK	PUG 9133 DVK	PUR 9133 DVK	670	R 3/8" m
9/13	6 m	7.5 m	640 mm	68 mm	PUB 9136 DVK	PUG 9136 DVK	PUR 9136 DVK	1080	R 3/8" m
9/13	8 m	10 m	700 mm	68 mm	PUB 9138 DVK	PUG 9138 DVK	PUR 9138 DVK	1260	R 3/8" m
11/16	3 m	4.5 m	270 mm	90 mm	⊕PUB 11163 DVS	PUG 11163 DVS	PUR 11163 DVS	1150	R 1/2" m
11/16	6 m	7.5 m	540 mm	90 mm	⊕PUB 11166 DVS	PUG 11166 DVS	PUR 11166 DVS	1840	R 1/2" m
11/16	8 m	10 m	600 mm	90 mm	⊕PUB 11168 DVS	PUG 11168 DVS	PUR 11168 DVS	2053	R 1/2" m
13/19	3 m	4.5 m	300 mm	125 mm	⊕PUB 13193 SVS	PUG 13193 SVS		1230	R 3/4" m
13/19	6 m	7.5 m	480 mm	125 mm	⊕PUB 13196 SVS	PUG 13196 SVS		1940	R 3/4" m
13/19	8 m	10 m	550 mm	125 mm	⊕PUB 13198 SVS	PUG 13198 SVS		2410	R 3/4" m

- High abrasion, pressure and wear resistance
- Extreme and constant recoil of the spiral, small coil diameter
- Perfect elasticity, flexibility and bend stability
- Softener and metal free
- Absolutely silicon-free; recyclable, gas, oil and antifreeze resistant
- Exactly adapted assortment of reusable connections
- Space-saving despite of enormous reach
- Clean, safe and easy to store in individual packing
- Application: On air tools, assembly lines. In pneumatic, automation, measuring and control technique, car industry, instrument making, mechanical engineering, garages, and more.
- Also suitable for other fluids (on request).

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



MODY-Spiral Hoses with swivelling Quick-Connect Couplings and Plug DN 7.2 assembled



MODY-Spiral Hoses without fittings

Type No. blue	Type No. yellow	Type No. red	Weight/pc. g	Type No. blue	Type No. yellow	Type No. red	Weight/pc. g
●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



- For higher volume demands 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 have your own combination of a hose without fittings completely assembled with fittings. The fittings can be added to the hose resp. can be assembled from 10 pcs./type onward in our works.
For assembling we charge fitting. We can't give any guarantee for hoses with fittings not assembled by ourselves.
- Please also note our system supplementions (complete range of Quick-Connect Couplings (☺ page 91), Pneumatic-Fittings (☺ page 97) or Air Guns (☺ page 92).

Necessary data for special versions

Dimensions/Characteristics:

AL Working Length
L 1 Short End
L 2 Long End
D Spiral Diameter
i.D./o.D.
Colour
Inscription

Fittings:

Type No. Short End
Type No. Long End

- NW/AD 4/6 with Mini Quick Connect Coupling and Plug DN 5
- NW/AD 11/16 with spring of nickel-plated steel
- NW/AD 13/19 with rigid fitting and spring of nickel-plated steel

MODY-Duo-Spiral Hoses made of Polyurethane

both ends with straight ends

- All advantages of the MODY-spiral hose
- Easy assembling with swivelling fittings on both sides
- Application: In fluid-control, on measuring devices, automation..., for different fluids or different compressed air lines combined...



Max. Working Pressure	Temperature	Medium	Material	Colours	Short End	Long End	
PN 10 bar	-20°C – +85°C	compr. air a.o.	Polyurethane	blue/yellow	10 cm	50 cm	1

Hose i.D./o.D.	Connection	Max. Working Length		Block Length		Weight/pc. g	
		Hose Length		Outer Spiral	∅	Type No.	
6.5/10	without	3 m	4.5 m	450 mm	65 mm	750	PUBG 65103
6.5/10	without	6 m	7.5 m	770 mm	65 mm	1120	PUBG 65106
6.5/10	4xR 1/4" swivelling	3 m	4.5 m	450 mm	65 mm	1000	PUBG 65103 DVK
6.5/10	4xR 1/4" swivelling	6 m	7.5 m	770 mm	65 mm	1370	PUBG 65106 DVK

MODY-Duo-Hose (non spiralled), Minimum quantity 10 m

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

A : S : S Antistatic Spiral Hoses made of Polyurethane

both sides with straight ends

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



Max. Working Pressure	Temperature	Medium	Material	Colours	Short End	Long End	
PN 10 bar	-20°C – +85°C	compr. air a.o.	Polyurethane	black	10 cm	50 cm	1

Hose i.D./o.D.	Connection	Max. Working Length		Block Length		Weight/pc. g	
		Hose Length		outer	∅Spiral	Type No.	
6/8	without	3 m	4.5 m	320 mm	36 mm	260	PUAS 683
6/8	without	6 m	7.5 m	610 mm	36 mm	380	PUAS 686
6/8	2xR 1/4" a rigid	3 m	4.5 m	320 mm	36 mm	380	PUAS 683 SVK
6/8	2xR 1/4" a rigid	6 m	7.5 m	610 mm	36 mm	500	PUAS 686 SVK
7.5/10	without	3 m	4.5 m	320 mm	52 mm	330	PUAS 75103
7.5/10	without	6 m	7.5 m	550 mm	52 mm	520	PUAS 75106
7.5/10	2xR 1/4" a rigid	3 m	4.5 m	320 mm	52 mm	470	PUAS 75103 SVK
7.5/10	2xR 1/4" a rigid	6 m	7.5 m	550 mm	52 mm	660	PUAS 75106 SVK
9/12	without	3 m	4.5 m	270 mm	65 mm	430	PUAS 9123
9/12	without	6 m	7.5 m	550 mm	65 mm	810	PUAS 9126
9/12	2xR 3/8" a rigid	3 m	4.5 m	270 mm	65 mm	580	PUAS 9123 SVK
9/12	2xR 3/8" a rigid	6 m	7.5 m	550 mm	65 mm	960	PUAS 9126 SVK

Other hose dimensions or working lengths on request.

Flamex-Spark protecting and hot water Spiral Hoses of Polyurethane

both ends with straight ends

- Spiral hoses of special polyurethane, high quality and extreme robust, resistant against sparks and welding (sparks run down)
- All advantages of the MODY-Spiral Hose
- Fluoride-free, halogen-free, silicon-free, hydrolysis resistant
- Outside calibrated
- Extremely burn resistant, burn classification according to UL 94 =VO
- Durable and reliable, suitable for drag chain
- **Application: For compressed air and water supply under extreme conditions in industry (e.g. on welding robots), in garages near welding places, plastic injection machines, public buildings, trains, machine building**

Max. Working Pressure	Temperature	Medium	Material	Colours	Short End	Long End	
PN 15 bar	-20°C – +100°C	compr. air / water	Polyurethane	black	10 cm	50 cm	1

Hose i.D./o.D.	Max. Working Length Connection	Max. Working Length		Block Length		Weight/pc. g	
		Hose Length		Outer	Spiral	Type No.	
6/10	without	3 m	4.5 m	320 mm	52 mm	320	PUFS 6103
6/10	without	6 m	7.5 m	550 mm	52 mm	500	PUFS 6106
6/10	without	8 m	10 m	660 mm	52 mm	620	PUFS 6108
6/10	2xR 1/4" m swivelling	3 m	4.5 m	320 mm	52 mm	450	PUFS 6103 DVK
6/10	2xR 1/4" m swivelling	6 m	7.5 m	550 mm	52 mm	630	PUFS 6106 DVK
6/10	2xR 1/4" m swivelling	8 m	10 m	660 mm	52 mm	750	PUFS 6108 DVK
8/12	without	3 m	4.5 m	275 mm	65 mm	440	PUFS 8123
8/12	without	6 m	7.5 m	550 mm	65 mm	720	PUFS 8126
8/12	without	8 m	10 m	635 mm	65 mm	950	PUFS 8128
8/12	2xR 3/8" m swivelling	3 m	4.5 m	275 mm	65 mm	520	PUFS 8123 DVK
8/12	2xR 3/8" m swivelling	6 m	7.5 m	550 mm	65 mm	800	PUFS 8126 DVK
8/12	2xR 3/8" m swivelling	8 m	10 m	635 mm	65 mm	1130	PUFS 8128 DVK



Flamex-Hose (non spiralled), Minimum quantity 10 m

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

A : S : S Antistatic hose (non spiralled), 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

System supplementations

Quick Disconnect Couplings (© page 91)

Pneumatic Fittings (© page 97)

Blow-off Guns and -Valves (© page 97)

MODY-Spiral Hose Fittings

made of brass resp. steel nickel-plated with polyamid bend and scratch protective spring

- All fittings removable and reusable
- Maximum bore for maximum flow-capacity
- Exactly adapted to PU-dimension and hardness
- New construction, extreme pull and pressure-resistant
- Male threads tapered and Loctite-laminated
- Quick Connect Couplings Standard System DN 7.2
- Swivelling screwings with double O-ring sealing and circlip, easy to turn under pressure
- All fittings also available with spring of steel on request (also for PA-Hoses)

Squeeze Screwings for connections of Mody-Spiral-Hoses with compressed air lines or tools.

Max. Working Pressure	Temperature	Medium	Material	Material Spring	ES-DN	Threads	
PN 15 bar	-40°C – +85°C	compr. air a.o.	MS 58 / steel	Polyamid	7.2	ISO 228 / DIN 2999	5

Swivelling Squeeze Screwings with male thread (tapered, laminated) and bend- and scratch-protection

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



Swivelling Squeeze Screwings with female thread (parallel) and bend- and scratch-protection

Thread	For hose i.D./o.D.	Bore	Material	Weight/pc. g	Type No.
G 1/4"	4/6	3 mm	MS 58	49	DVK 4614 I
G 1/4"	5/8	4.5 mm	MS 58	58	DVK 5814 I
G 1/4"	6.5/10	5.5 mm	MS 58	70	DVK 651014 I
G 1/4"	8/12	7 mm	MS 58	80	DVK 81214 I
G 3/8"	8/12	7 mm	MS 58	80	DVK 81238 I
G 3/8"	9/13	8 mm	MS 58	74	DVK 91338 I
G 1/2"	11/16	10 mm	steel	254	DVS 111612 I*



Rigid Squeeze Screwings with male thread (tapered, laminated) and bend- and scratch-protection

Thread	For hose i.D./o.D.	Bore	Material	Weight/pc. g	Type No.
R 1/4"	4/6	3 mm	MS 58	25	SVK 4614
R 1/4"	5/8	4.5 mm	MS 58	29	SVK 5814
R 1/4"	6/8	5 mm	MS 58	28	SVK 6814
R 1/4"	6.5/10	5.5 mm	MS 58	43	SVK 651014
R 1/4"	7.5/10	6.5 mm	MS 58	40	SVK 751014
R 1/4"	8/12	7 mm	MS 58	56	SVK 81214
R 3/8"	8/12	7 mm	MS 58	63	SVK 81238
R 3/8"	9/12	8 mm	MS 58	61	SVK 91238
R 3/8"	9/13	8 mm	MS 58	59	SVK 91338
R 1/2"	11/16	10 mm	steel	171	SVS 111612*
R 1/2"	13/19	12 mm	steel	205	SVS 131912*
R 3/4"	13/19	12 mm	steel	210	SVS 131934*

On request also available in stainless steel 1.4305 against extra charge

Rigid Squeeze Screwings with female thread (parallel) and bend- and scratch-protection

Thread	For hose i.D./o.D.	Bore	Material	Weight/pc. g	Type No.
G 1/4"	4/6	3 mm	MS 58	25	SVK 4614 I
G 1/4"	5/8	4.5 mm	MS 58	31	SVK 5814 I
G 1/4"	6.5/10	5.5 mm	MS 58	48	SVK 651014 I
G 1/4"	8/12	7 mm	MS 58	64	SVK 81214 I
G 3/8"	8/12	7 mm	MS 58	66	SVK 81238 I
G 3/8"	9/13	8 mm	MS 58	62	SVK 91338 I
G 1/2"	11/16	10 mm	steel	180	SVS 111612 I *

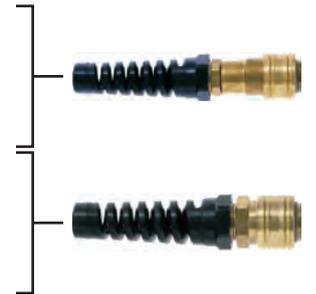
* with spring of nickel-plated steel, male thread not laminated





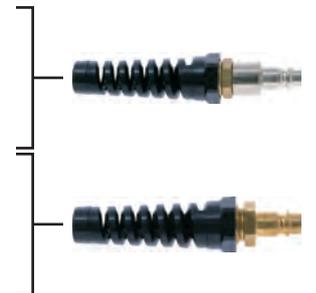
Quick Connect Couplings with squeeze screwings and bend and scratch protection

For hose i.D./o.D.	ES-DN	Material	Characteristic	Weight/pc. g	Type No.
4/6	5	MS 58	swivelling	55	ESM 4 DVK
5/8	7.2	MS 58	swivelling	65	ES 5 DVK
6.5/10	7.2	MS 58	swivelling	111	ES 65 DVK
8/12	7.2	MS 58	swivelling	115	ES 8 DVK
9/13	7.2	MS 58	swivelling	131	ES 9 DVK
4/6	5	MS 58	rigid	45	ESM 4 SVK
5/8	7.2	MS 58	rigid	55	ES 5 SVK
6.5/10	7.2	MS 58	rigid	95	ES 65 SVK
8/12	7.2	MS 58	rigid	103	ES 8 SVK
9/13	7.2	MS 58	rigid	98	ES 9 SVK



Quick Connect Plugs with squeeze screwings and bend and scratch protection

For hose i.D./o.D.	ES-DN	Material	Characteristic	Weight/pc. g	Type No.
4/6	5	hardened steel	swivelling	37	ESM 4 SDVK
5/8	7.2	hardened steel	swivelling	50	ES 5 SDVK
6.5/10	7.2	hardened steel	swivelling	62	ES 65 SDVK
8/12	7.2	hardened steel	swivelling	78	ES 8 SDVK
9/13	7.2	hardened steel	swivelling	75	ES 9 SDVK
4/6	5	MS 58	rigid	17	ESM 4 SSVK
5/8	7.2	MS 58	rigid	34	ES 5 SSVK
6.5/10	7.2	MS 58	rigid	46	ES 65 SSVK
8/12	7.2	MS 58	rigid	59	ES 8 SSVK
9/13	7.2	MS 58	rigid	57	ES 9 SSVK



Polyurethan-Hoses (non spiralled) for flexible compressed air lines (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	



Hose Pincer and Replacement Blade

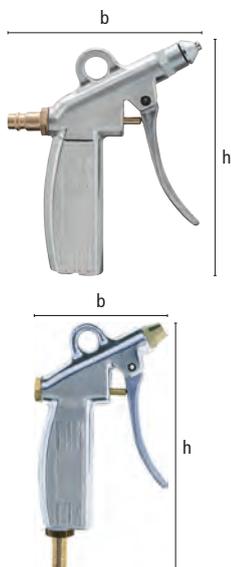
Type	☐	Material	Weight/pc. g	Type No.
Hose Pincer (for o.D. 1-19 mm)	1 (pc.)	steel	242	SZ-PU
Replacement Blade	1 set (2 pcs.)	steel	8	MSZ



Dosage Blow-off Guns

of forged aluminium

- All advantages and characteristics of the standard type APN
- Dosable (without interruption) air stream for suitable blow-off effect
- With long handle and suspension bow
- APND-NA-MFD with quick plug DN 7.2 at the side to be connected with from top coming hoses assembled with angle coupling DN 7.2 ES..T-90 for perfect ergonomic work
- For cleaning of working places and parts in industry, garages...



Max. Work. Pressure	Temperature	Medium	Material	Material Nozzle	Threads	
PN 12 bar	-20°C – +100°C	compressed air	aluminium	steel zinc plated	ISO 228 / DIN 13	5

Connection	Nozzle	Nozzle bore	h	b	Weight/pc. g	Type No.
G 1/4" f	without	-	140	77	222	APND 00
G 1/4" f	P1	2 mm	160	90	237	APND 0
G 1/4" f	MFD 1	1.5 mm	160	90	268	APND 0 MFD
Plug DN 7.2	MFD1	1.5 mm	160	110	290	APND-NA-MFD

Multi-function Nozzle

for Blow-off Guns type APN / APND

- 20 % more blow-effect at same air consumption as standard nozzle
- Safety function (air shield against back-whirling dirt)
- Injection function
- Noise reduction to 83 DB
- Fulfills US-safety norm OSHA



Characteristic	Material	Thread	Bore	Weight/pc. g	Type No.
Multi-function Nozzle	steel	M 12 x 1.25	1.5 mm	31	MFD 1

Compressed air Blow-off Guns

of forged aluminium

- High quality, robust, handy, especially suitable for continuous use
- With long handle, suspension bow and different connections
- For cleaning of working places and parts in industry, garages...

Max. Working Pressure	Temperature	Material	Mat. Nozzle	Medium	Threads	Thread Nozzle	⊞
PN 12 bar	-20°C – +100°C	aluminium	steel zinc plated	compressed air	ISO 228 / DIN 13	M 12 x 1.25	5

Standard Blow-Guns of forged Aluminium

Connection	Nozzle	Nozzle bore	h	b	Weight/pc. g	Type No.
G 1/4" f	without	-	140	77	222	APN 00
G 1/4" f	P1	2 mm	160	90	237	APN 0
Hose i.D. 1/4" = 6 mm	P1	2 mm	175	90	254	APN 6
Hose i.D. 3/8" = 9 mm	P1	2 mm	175	90	260	APN 9
Hose i.D. 7/16" = 11 mm	P1	2 mm	175	90	264	APN 11
Hose i.D. 1/2" = 13 mm	P1	2mm	175	90	277	APN 13
G 1/4" m	P1	2 mm	160	90	256	APN 14
ES 14 NA	P1	2 mm	170	90	259	APN 14 NA



Nozzles for Blow-Guns type APN and APND with male thread M 12 x 1.25

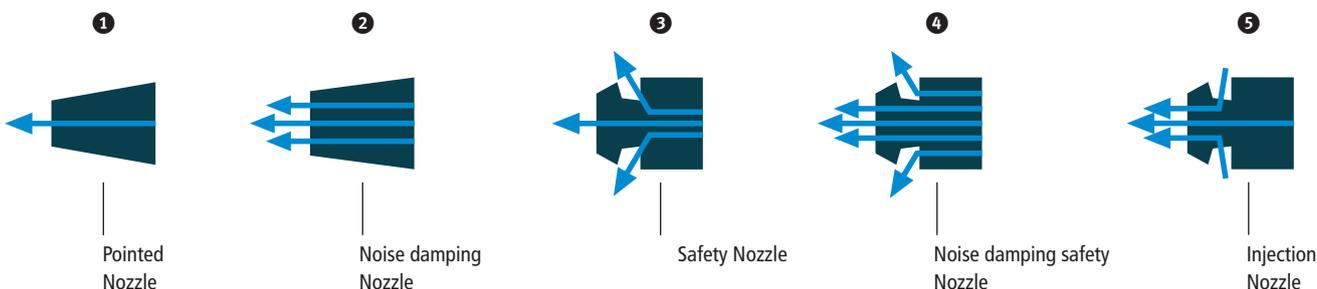
Characteristic	Material	Weight/pc. g	⊞	Type No.
● Pointed nozzle	steel	20	10	DÜSE P1
● Noise damping nozzle	steel	13	10	DÜSE GD1
● Safety nozzle	steel	30	10	DÜSE SD1
● Noise damping safety nozzle	steel	27	10	DÜSE GSD1
● Injection nozzle	steel	31	10	DÜSE J1
Extension nozzle 150 mm, straight	steel	25	10	DÜSE VD1
Extension nozzle 120 mm, curved	steel		5	DÜSE VDG 120
Extension nozzle 165 mm, curved	steel		5	DÜSE VDG 165
Extension nozzle 260 mm, curved	steel		5	DÜSE VDG 260
Noise damping nozzle	MS 58	59	10	LSD 125
Adjustable nozzle OSHA/ SUVA	ALU/ POM		5	DÜSE GD1 0

Swivel head screwing for trimming of blow nozzles

Connection Thread	Nozzle Thread	Displacement	Hexagon I	d	Weight/pc.g	⊞	Type No.
G 1/4" male	G 1/4" IG	47°	22	53	27	104	10 KGV 14

Spare Parts for Blow-Guns type APN

Characteristic	⊞	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 Valves

of aluminium / brass

- Robust valves for continuous use under extreme conditions
- For cleaning of working places or parts in industry, garages, foundries...

Max. Working Pressure	Temperature	Material	Material Nozzle	Medium	Threads	Thread Nozzle	
PN 12 bar	-20°C – +100°C	aluminium / MS 58	steel zinc plated	compressed air	ISO 228	G 3/8"m	5

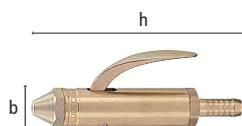
Blow-Valves of aluminium



Connection	Nozzle	Nozzle bore	b	h	Weight/pc. g	Type No.
G 1/4" female	H2	2 mm	22	108	110	AHL 14 I
Hose i.D. 1/4" = 6 mm	H2	2 mm	22	115	104	AHL 6
Hose i.D. 3/8" = 9 mm	H2	2 mm	22	115	105	AHL 9
Hose i.D. 7/16" = 11 mm	H2	2 mm	22	115	108	AHL 11
Hose i.D. 1/2" = 13 mm	H2	2 mm	22	115	108	AHL 13
Hose i.D. 5/8" = 15 mm	H2	2 mm	22	115	111	AHL 15

For hose clips type ZOS (page 106), type HS (page 107) or crimping ferrules type LPH (page 109)

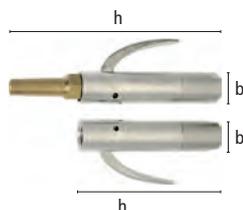
Blow-Valves of brass



Connection	Nozzle	Nozzle bore	b	h	Weight/pc. g	Type No.
Hose i.D. 1/4" = 6 mm	H2	2 mm	22	115	206	AHM 6
Hose i.D. 3/8" = 9 mm	H2	2 mm	22	115	210	AHM 9
Hose i.D. 7/16" = 11 mm	H2	2 mm	22	115	217	AHM 11
Hose i.D. 1/2" = 13 mm	H2	2 mm	22	115	219	AHM 13
G 1/4"m	H2	2 mm	22	115	209	AHM 14

For hose clips type ZOS (page 106), type HS (page 107) or crimping ferrules type LPH (page 109)

Blow-Valves of aluminium resp. brass – long execution



Connection	Nozzle	Material	b	h	Weight/pc. g	Type No.
G 3/8" f	without (G 3/8" f)	aluminium	22	105	95	AHL 38 IL
G 3/8" f	LSD 38	aluminium / MS	22	152	164	AHL 38 IL-LSD
G 3/8" f	without (G 3/8" f)	brass	22	105	210	AHM 38 IL
G 3/8" f	LSD 38	brass	22	152	279	AHM 38 IL-LSD

Connections with male thread stems type T...M hose i.D. 6-13 mm

Nozzles for Blow-Valves type AHL/M with male thread G 3/8"m

Characteristic	Material	Weight/pc. g		Type No.
● Pointed nozzle	steel	30	10	DÜSE H2
● Noise damping nozzle	steel	23	10	DÜSE GD2
● Safety nozzle	steel	45	10	DÜSE SD2
● Noise damping safety nozzle	steel	44	10	DÜSE GSD2
● Injection nozzle	steel	45	10	DÜSE J2
Extension nozzle	steel	35	10	DÜSE VD2
Noise damping nozzle	MS 58	69	10	LSD 38

Spare Parts for Blow-Valves (page 95)

Multi-function Nozzle and Spare Parts

for Blow-Valves type AHL / AHM

- 20 % more blow-effect at same air consumption as standard nozzle
- Safety function (air shield against back-whirling dirt)
- Injection function
- Noise reduction to 83 DB
- Fulfills US-safety norm OSHA

Characteristic	Material	Thread	Bore	Weight/pc. g	☐	Type No.
Multi-function Nozzle	steel	G 3 / 8" m	1.5 mm	41	10	MFD 2



Spare parts for Blow-Valves type AHL/M

Characteristic	☐	Type No.
Valve pin with O-Ring	10	AH-VSTIFT
Valve with spring	10	AH-AVKO
Handle	10	AH-HEBEL
Connecting stems 6-15 mm Alu	10	TÜLLE AT..L
Connecting stems 6-15 mm MS 58	10	TÜLLE AT..M

Blow-off Valves – Multiple flow capacity

Heavy version

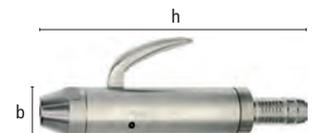
of aluminium

- Nozzle bore 8 mm for multiple flow capacity i.e. for cleaning of heavy castings

Max. Working Pressure	Temperature	Material	Material Nozzle	Medium	☐
PN 12 bar	-20°C – +100°C	aluminium	aluminium	compressed air / water	1

Hose i.D.	Nozzle bore	b	h	Weight/pc. g	Type No.
1/2" = 13 mm	8 mm	35	185	338	AHLG 13
3/4" = 19 mm	8 mm	35	185	352	AHLG 19

For hose clips type ZOS (☐ page 106), type HS (☐ page 107) or crimping ferrules type LPH (☐ page 109)



Compressed air Blow-off Guns of plastic

New Version

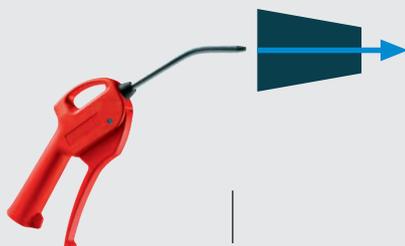


- Blow-off gun of robust, scratchproof, isolating and nonslip composite material
- perfectly fitted to the shape of the hand and therefore particularly ergonomic
- input connector meshed with brass insert: complete safety and tightness when mounting
- targeted jet, nozzle angle and natural alignment of the air jet enable precise working
- fine dosing, for precise adjustment of the jet only a small amount of operation 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 on the nozzle and body are possible
- 2 possibilities for hanging , safe and practical

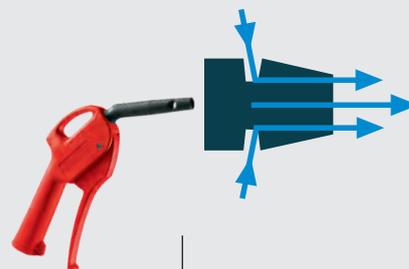
Max. Working Pressure	Temperature	Medium	Material	Material Nozzle	Threads	
PN 10 bar	-15°C – +70°C	compressed air	Plastic	Steel / Composite	ISO 228	5
Connection	A	B	I	Nozzle bore	Weight/pc. g	Type No.
G 1/4" IG	200	25	164	6	110	APK O
Plug DN 7.2	200	25	164	6	110	APK 14 NA
G 1/4" IG	168	25	140	12	110	APK O-OSHA
Plug DN 7.2	168	25	140	12	110	APK-OSHA 14 NA



- Thread Connection G1/4" made of brass interlocked with body
- No risk of cracking during assembly, no leakage
- Completely safe and tight during assembly



- Blow-gun, concentrated direct blow nozzle
- Blow-gun with long tapered metal nozzle



- Blow-gun with OSHA nozzle and venturi function
- Blow-gun with OSHA nozzle according to OSHA 1910.242B, reduced outlet pressure 28PSI (1.93 bar)



- 2 hanging possibilities - safe and practical

Pneumatic Fittings

of brass – solid version

- For fluid-control, compressed air, automation, measure-, control- and regulation technique, welding...

Max. Working Pressure	Material	Medium	Threads	Cone	
PN 12 bar	MS 58	compressed air, gas a.o.	ISO 228 / DIN 2999	37°	10

Pneumatic-1/3-Hose Barb Adaptor

Thread stems with male thread parallel and inner cone 37°

Thread	Hose i.D.	DN	Hexagon	h	Stem L.	Thread L.	Weight/pc. g	Type No.
G 1/8"	6 mm	5	13	37	25	7	12	T 186 M
G 1/8"	9 mm	5	13	37	25	7	20	T 189 M
G 1/4"	6 mm	5	17	39	25	9	19	T 146 M
G 1/4"	8 mm	6	17	39	25	9	21	T 148 M
G 1/4"	9 mm	7	17	39	25	9	22	T 149 M
G 1/4"	11 mm	8	17	39	25	9	26	T 1411 M
G 1/4"	13 mm	8	17	39	25	9	34	T 1413 M
G 3/8"	6 mm	5	19	40	25	10	25	T 386 M
G 3/8"	8 mm	6	19	40	25	10	27	T 388 M
G 3/8"	9 mm	7	19	40	25	10	28	T 389 M
G 3/8"	11 mm	8	19	40	25	10	33	T 3811 M
G 3/8"	13 mm	9.5	19	40	25	10	36	T 3813 M
G 1/2"	6 mm	5	24	40	25	10	37	T 126 M
G 1/2"	9 mm	7	24	40	25	10	41	T 129 M
G 1/2"	13 mm	11	24	40	25	10	44	T 1213 M
G 3/4"	19 mm	13	27	56	32	16	125	T 3419 TM*
G 1"	25 mm	20	36	70	41	17	210	T 1025 TM*

For hose clips type ZOS (☉ page 106), type HS (☉ page 107) or crimping ferrules type LPH (☉ page 109)

Male thread sealing with PVC-packing rings type HPD (☉ page 189)

*without inner cone



Pneumatic-2/3-Hose Barb Adaptor

Hexagon Nuts

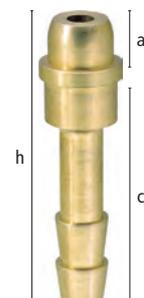
Thread	Bore	Hexagon	h	Weight/pc. g	Type No.
G 1/8"	7.2 mm	13	12	13	U 18 M
G 1/4"	10.6 mm	17	14	16	U 14 M
G 3/8"	13 mm	19	15	15	U 38 M
G 1/2"	15.5 mm	24	16	28	U 12 M



Hose stems for hexagon nuts (with outer cone)

Hose i.D.	For Nut	DN	h	a	c	Stem L.	Weight/pc. g	Type No.
6 mm	U 18 M	4	40	4	34	28	7	ST 186 M
6 mm	U 14 M	4	42	6	34	28	12	ST 146 M
9 mm	U 14 M	5.5	42	6	34	28	14	ST 149 M
6 mm	U 38 M	4	47	7	38	28	23	ST 386 M
9 mm	U 38 M	6.5	47	7	38	28	23	ST 389 M
11 mm	U 38 M	7	47	7	38	28	30	ST 3811 M
6 mm	U 12 M	4	47	7	38	29	32	ST 126 M
9 mm	U 12 M	6.5	47	7	38	29	33	ST 129 M
13 mm	U 12 M	9	47	7	38	29	34	ST 1213 M

For hose clips type ZOS (☉ page 106), type HS (☉ page 107) or crimping ferrules type LPH (☉ page 109)



Pneumatic Fittings

of brass - solid version



Thread Stems with female thread

Thread	Hose i.D.	DN	Hexagon	h	Stem Length	Thread Length	Weight/pc. g	Type No.
G 1/8"	6 mm	5	13	37	25	9	13	TI 186 M
G 1/4"	8 mm	6	17	39	25	11	22	TI 148 M
G 1/4"	9 mm	7	17	39	25	11	23	TI 149 M
G 3/8"	8 mm	6	19	40	25	12	28	TI 388 M
G 3/8"	9 mm	7	19	40	25	12	29	TI 389 M
G 3/8"	13 mm	9.5	19	40	25	12	37	TI 3813 M
G 1/2"	8 mm	6	24	41	25	12	37	TI 128 M
G 1/2"	9 mm	7	24	41	25	12	42	TI 129 M
G 1/2"	13 mm	11	24	41	25	12	45	TI 1213 M

Pneumatic Fittings

of brass - solid version

- For fluid-control, compressed air, automation, measure-, control- and regulation technique, welding...

Angle screwings for 45° or 90° connections

Angle	Hexagon	Male Thread	Female Thread	l	Weight/pc. g	h	Type No.
45°	20	G 1/4"	G 1/4"	29 mm	42	10	W 14 IA-45
90°	20	G 1/4"	G 1/4"	29 mm	53	10	W 14 IA-90

To be combined with female thread couplings, male thread stems and male plugs G 1/4"



Pneumatic Double Nipples with male thread and inner cone 37°

Thread	Thread L.	Thread	Thread L.	DN	Hexagon	h	Weight/pc. g	Type No.
G 1/8"	7 mm	G 1/8"	7 mm	5	13	19	10	D 18 M
G 1/8"	7 mm	G 1/4"	9 mm	5	17	21	18	D 84 M
G 1/4"	9 mm	G 1/4"	9 mm	7.5	17	23	19	D 14 M
G 1/4"	9 mm	G 3/8"	10 mm	7.5	19	24	26	D 48 M
G 1/4"	9 mm	G 1/2"	12.5 mm	7.5	24	27	48	D 42 M
G 3/8"	10 mm	G 3/8"	10 mm	9	19	25	30	D 38 M
G 3/8"	10 mm	G 1/2"	12.5 mm	9	24	28	50	D 82 M
G 1/2"	12.5 mm	G 1/2"	12.5 mm	12	24	30	54	D 12 M

Male thread sealing with PVC-packing rings type HPD (© page 189)



Pneumatic Reducing Nipples with female thread, male thread and hexagon

Female Thread	Male Thread	Hexagon	h	Male Thread L.	Weight/pc. g	Type No.
G 1/8"	G 1/4"	17	13	9	10	R 84 N
G 1/4"	G 3/8"	19	14	10	10	R 48 N
G 1/4"	G 1/2"	24	15	11	29	R 42 N
G 3/8"	G 1/2"	24	15	11	19	R 82 N
G 1/2"	G 3/4"	32	21	14	55	R 24 NM
G 1/2"	G 1"	36	20	15	90	R 21 N

Male thread sealing with PVC-packing rings type HPD (© page 189)



Pneumatic Hose Menders

Hose i.D.	DN	h	Weight/pc. g	Type No.
6 mm	4	52	15	SV 6 M
8 mm	6	52	21	SV 8 M
9 mm	7	52	25	SV 9 M
11 mm	9	52	36	SV 11 M
13 mm	10	52	30	SV 13 M
19 mm	16	65	67	SV 19 M
25 mm	21.5	80	102	SV 25 M

For hose clips type ZOS (© page 106), type HS (© page 107) or crimping ferrules type LPH (© page 109)



Pneumatic Fittings

of brass - solid version



Swivelling thread stems with male thread tapered, Loctite-laminated

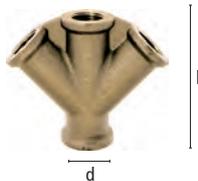
Thread	Hose i.D.	DN	Hexagon	h	Stem Length	Thread Length	Weight/pc. g	Type No.
R 1/4"	6 mm	5	17	50	25	11	32	TD 146 M
R 1/4"	9 mm	6	17	50	25	11	38	TD 149 M
R 3/8"	6 mm	5	19	52	25	12	45	TD 386 M
R 3/8"	9 mm	7	19	52	25	12	49	TD 389 M
R 3/8"	11 mm	7	19	52	25	12	56	TD 3811 M

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



3-Way-Distributors with female thread

Thread	DN	l	d	Weight/pc. g	☺	Type No.
3 x G 3/8"	15	46	26	93	5	DWS 38
3 x G 1/2"	19	50	27.5	100	5	DWS 12



4-Way-Distributors with female thread

Thread	DN	l	d	Weight/pc. g	☺	Type No.
4 x G 3/8"	15	61	26	191	5	VWS 38
4 x G 1/2"	19	59.5	27.5	170	5	VWS 12

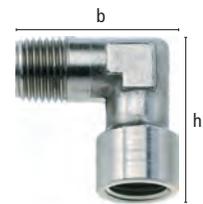
Pneumatic Fittings of brass – nickel-plated version

- For fluid-control, compressed air, automation, measure-, control- and regulation technique, welding...

Max. Working Pressure	Material	Medium	Threads	
PN 8 bar	MS 58 nickel-plated	compressed air a.o.	ISO 228 / DIN 2999	10

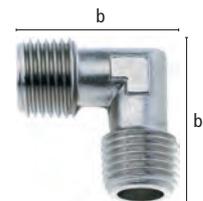
Elbow Connectors with tapered male thread and parallel female thread

Male Thread	Female Thread	Hex.	b	h	Thread L.	Weight/pc. g	Type No.
R 1/8"	G 1/8"	11	18.8	21	8	21	VL 202-18
R 1/4"	G 1/4"	13	24.5	25.5	11	38	VL 202-14
R 3/8"	G 3/8"	17	25.3	28	12	61	VL 202-38
R 1/2"	G 1/2"	21	30	33	14	103	VL 202-12



Elbow Connectors with both sides tapered male thread

Threads	Hex.	b	Thread L.	Weight/pc. g	Type No.
2 x R 1/8"	10	17.8	8	10	VL 200-18
2 x R 1/4"	11	21	11	21	VL 200-14
2 x R 3/8"	13	25.3	12	38	VL 200-38
2 x R 1/2"	17	28.5	14	61	VL 200-12



Elbow Connectors with both sides parallel female thread

Threads	Hex.	b	Thread L.	Weight/pc. g	Type No.
2 x G 1/8"	11	21	8	23	VL 201-18
2 x G 1/4"	13	25.5	11	42	VL 201-14
2 x G 3/8"	17	28	12	72	VL 201-38
2 x G 1/2"	21	33	14	116	VL 201-12



Y-Connectors with tapered male thread and 2 x parallel female thread

Male Thread	Female Thread	Hex.	Thread L.	Weight/pc. g	Type No.
R 1/8"	2 x G 1/8"	14	8	22	VM 204-18
R 1/4"	2 x G 1/4"	17	11	43	VM 204-14
R 3/8"	2 x G 3/8"	22	12	55	VM 204-38
R 1/2"	2 x G 1/2"	26	14	108	VM 204-12



Y-Stück mit 3 x zylindrischem Innengewinde

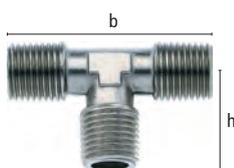
Threads	Hexagon	Thread L.	Weight/pc. g	Type No.
3 x G 1/8"	14	8	32	VF 204-18
3 x G 1/4"	17	11	36	VF 204-14
3 x G 3/8"	22	12	42	VF 204-38
3 x G 1/2"	26	14	101	VF 204-12



Pneumatic Fittings

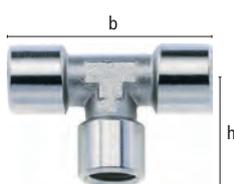
of brass – nickel-plated version

- For fluid-control, compressed air, automation, measure-, control- and regulation technique, welding...



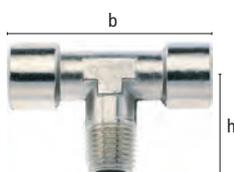
T-Adaptors with 3 x tapered male thread

Threads	⊘Hexag.	b	h	Thread L.	Weight/pc. g	Type No.
3 x R 1/8"	10	35.5	17.8	8	20	VTT 208-18
3 x R 1/4"	11	42	21	11	30	VTT 208-14
3 x R 3/8"	13	50.5	25.3	12	56	VTT 208-38
3 x R 1/2"	17	57	28.5	14	128	VTT 208-12



T-Adaptors with 3 x parallel female thread

Threads	⊘Hexag.	b	h	Thread L.	Weight/pc. g	Type No.
3 x G 1/8"	11	42	21	8	31	VTT 200-18
3 x G 1/4"	13	51	25.5	11	62	VTT 200-14
3 x G 3/8"	17	56	28	12	97	VTT 200-38
3 x G 1/2"	21	66	33	14	161	VTT 200-12



T-Adaptors with tapered male thread and 2 x parallel female thread

Male Thread	Female Thread	⊘Hexag.	b	h	Thread L.	Weight/pc. g	Type No.
R 1/8"	2 x G 1/8"	11	42	21	8	26	VTC 206-18
R 1/4"	2 x G 1/4"	13	51	25.5	11	56	VTC 206-14
R 3/8"	2 x G 3/8"	17	56	28	12	91	VTC 206-38
R 1/2"	2 x G 1/2"	21	66	33	14	150	VTC 206-12



Double Adaptor with both sides parallel male thread

Threads	⊘Hexag.	h	Thread L.	Weight/pc. g	Type No.
2 x G 1/8"	14	16.7	6	10	VNC 260-18
2 x G 1/4"	14	21.2	8	15	VNC 260-14
2 x G 3/8"	19	23.2	9	28	VNC 260-38
2 x G 1/2"	24	25.7	10	32	VNC 260-12
2 x G 3/4"	30	29	11	68	VNC 260-34

Male thread sealing with PVC-packing rings type HPD (© page 189)



Reducing Double Adaptor with both sides parallel male thread

Thread	Thread L.	Thread	Thread L.	⊘Hexagon	h	Weight/pc. g	Type No.
G 1/8"	6	G 1/4"	8	17	19.2	15	VNR 261-184
G 1/8"	6	G 3/8"	9	19	20.2	20	VNR 261-188
G 1/8"	6	G 1/2"	10	24	24.7	34	VNR 261-182
G 1/4"	8	G 3/8"	9	19	22.2	21	VNR 261-148
G 1/4"	8	G 1/2"	10	24	23.7	26	VNR 261-142
G 3/8"	9	G 1/2"	10	24	24.7	38	VNR 261-382
G 1/2"	10	G 3/4"	11	28	27.5	65	VNR 261-124

Male thread sealing with PVC-packing rings type HPD (© page 189)

Pneumatic Fittings

of brass – nickel-plated version

- For fluid-control, compressed air, automation, measure-, control- and regulation technique, welding...

Double Adaptors with both sides tapered male thread

Threads	Thread L.	Hexagon	h	Weight/pc. g	Type No.
2 x R 1/8"	7.6	12	19.7	9	VNC 250-18
2 x R 1/4"	11	14	27	16	VNC 250-14
2 x R 3/8"	11.6	17	28.2	26	VNC 250-38
2 x R 1/2"	14	22	33.5	52	VNC 250-12
2 x R 3/4"	16.5	27	39	69	VNC 250-34



Reducing Double Adaptors with both sides tapered male thread

Thread	Thread L.	Thread	Thread L.	Hexagon	h	Weight/pc. g	Type No.
R 1/8"	7.6	R 1/4"	11	14	23.6	14	VNR 251-184
R 1/8"	7.6	R 3/8"	11.6	17	24.2	19	VNR 251-188
R 1/4"	11	R 3/8"	11.6	17	26.6	23	VNR 251-148
R 1/4"	11	R 1/2"	14	22	27.6	40	VNR 251-142
R 3/8"	11.6	R 1/2"	14	22	31.5	44	VNR 251-382
R 1/2"	14	R 3/4"	16.6	27	37.6	68	VNR 251-124



Double Adaptors with both sides parallel female thread

Threads	Thread L.	Hexagon	h	Weight/pc. g	Type No.
2 x G 1/8"	8	14	15	12	VM 254-188
2 x G 1/4"	11	17	22	21	VM 254-144
2 x G 3/8"	12	22	24	39	VM 254-388
2 x G 1/2"	15	27	30	50	VM 254-122



Reducing Double Adaptors with both sides parallel female thread

Thread	Thread L.	Thread	Thread L.	Hexagon	h	Weight/pc. g	Type No.
G 1/8"	8	G 1/4"	11	17	19.6	25	VM 255-184
G 1/4"	11	G 3/8"	12	22	23	47	VM 255-148
G 1/2"	15	G 3/4"	17	32	30	107	VM 255-124



Reducing Adaptors with parallel male and female thread

Female Thread	Thread L.	Male Thread	Thread L.	Hexagon	h	Weight/pc. g	Type No.
G 1/8"	13	G 1/4"	8	17	13	11	VRC 100-148
G 1/4"	14	G 3/8"	9	19	14	12	VRC 100-384
G 3/8"	15.5	G 1/2"	10	24	15.5	24	VRC 100-128
G 1/2"	17.5	G 3/4"	12	30	17.5	41	VRC 100-342



Male thread sealing with PVC-packing rings type HPD (☉ page 189)

Pneumatic Fittings

of brass – nickel-plated version

- For fluid-control, compressed air, automation, measure-, control- and regulation technique, welding...



Hose barb adaptor with parallel male thread

Thread	Hose i.D.	Hexagon	h	Thread Length	Stem Length	Weight/pc. g	Type No.
G 1/8"	6 mm	13	32	7	20	10	VPG 260-186
G 1/8"	9 mm	13	32	7	20	13	VPG 260-189
G 1/4"	6 mm	17	34	9	20	16	VPG 260-146
G 1/4"	9 mm	17	34	9	20	19	VPG 260-149
G 3/8"	9 mm	19	35	10	20	24	VPG 260-389
G 3/8"	14 mm	19	39	10	24	29	VPG 260-3814
G 1/2"	14 mm	24	40	10	24	39	VPG 260-1214
G 3/4"	20 mm	30	47	12	28	87	VPG 260-3420

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)

Male thread sealing with PVC-packing rings type HPD (☺ page 189)



Hose barb adaptor with parallel female thread

Thread	Hose i.D.	Hexagon	h	Thread Length	Stem Length	Weight/pc. g	Type No.
G 1/8"	6 mm	13	31	9	20	13	VPG 250-186
G 1/4"	6 mm	17	34	11	20	20	VPG 250-146
G 1/4"	9 mm	17	34	11	20	23	VPG 250-149
G 3/8"	9 mm	22	35	12	20	27	VPG 250-389
G 1/2"	13 mm	24	41.5	14	24	45	VPG 250-1213

For hose clips type ZOS (☺ page 106), type HS (☺ page 107) or crimping ferrules type LPH (☺ page 109)



Hexagon Locking nut with parallel female thread

Thread	Hexagon	h	Thread Length	Weight/pc. g	Type No.
G 1/8"	14	12	9	11	VE 265-18
G 1/4"	17	14	10	17	VE 265-14
G 3/8"	22	15.5	11	27	VE 265-38
G 1/2"	24	17	12	28	VE 265-12
G 3/4"	30	17.5	13	47	VE 265-34



Hexagon Locking nut with parallel male thread

Thread	Hexagon	h	Thread Length	Weight/pc. g	Type No.
G 1/8"	14	10.5	6	8	VE 261-18
G 1/4"	17	13	8	14	VE 261-14
G 3/8"	19	14	9	18	VE 261-38
G 1/2"	24	15.5	10	27	VE 261-12
G 3/4"	30	17.5	12	53	VE 261-34

Male thread sealing with PVC-packing rings type HPD (☺ page 189)



Slide Valves with both sides parallel female thread, sleeve of plastic

Threads	h	b	Hexagon	Weight/pc. g	Type No.
2 x G 1/8"	53	28	17	81	HSV 18
2 x G 1/4"	58	30	19	97	HSV 14
2 x G 3/8"	68	35	22	145	HSV 38
2 x G 1/2"	80	40	27	223	HSV 12
2 x G 3/4"	80	45	32	383	HSV 34

Hexagon Ball Valves

- Miniature ball valves of brass, nickel-plated
- For pneumatic or water installations in industry, construction or civil applications

body: brass, nickel-plated handle: plastic
 ball: brass, chromed O-Rings: PTFE

Max. Working Pressure	Temperature	Material	Mat. Seals	Medium	Threads	
PN 10 bar	-10°C – +90°C	MS 58 brass n.plated	PTFE	air / water	ISO 228	10

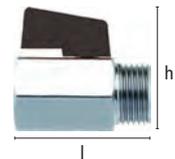
Hexagon Ball Valves with 2 x female thread

Thread	DN	l	h	 Hexagon	Weight/pc. g	Type No.
G 1/4"	5.5	36	38	19	71	KM 14 TS
G 3/8"	8	41	38	21	86	KM 38 TS
G 1/2"	10	48	42	25	137	KM 12 TS



Hexagon Ball Valves with female/male thread

Thread	DN	l	h	 Hexagon	Weight/pc. g	Type No.
G 1/4"	5.5	36	38	19	61	KMZ 14 TS
G 3/8"	8	41	38	21	83	KMZ 38 TS
G 1/2"	10	48	42	25	130	KMZ 12 TS



Two-Ear Hose Clips

- Profile according to DIN 2393 C
- Clips 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 unremovable
- No danger of hurt during assembly or work
- [Suitable for various hoses and fittings for different fluids](#)



Material	Medium	⊗
special reliable steel	various	100

Two-Ear-Hose Clips

Hose o.D./Range	band-width	Weight/pc. g	Type No.
5-7 mm	5.5 mm	1	ZOS 5-7
7-9 mm	6 mm	2	ZOS 7-9
9-11 mm	6 mm	2	ZOS 9-11
11-13 mm	6 mm	3	ZOS 11-13
13-15 mm	7 mm	4	ZOS 13-15
14-17 mm	7.5 mm	4	ZOS 14-17
15-18 mm	8 mm	5	ZOS 15-18
17-20 mm	8 mm	5	ZOS 17-20
19-21 mm	7 mm	5	ZOS 19-21
20-23 mm	9 mm	8	ZOS 20-23
22-25 mm	9 mm	9	ZOS 22-25
23-27 mm	9 mm	9	ZOS 23-27
25-28 mm	9 mm	10	ZOS 25-28
27-31 mm	9 mm	12	ZOS 27-31
31-34 mm	9 mm	13	ZOS 31-34
34-37 mm	9 mm	16	ZOS 34-37
37-40 mm	9 mm	17	ZOS 37-40
40-43 mm	9 mm	18	ZOS 40-43
Special assembly pincer		332	ZOSZ

High-Performance Hose Clips

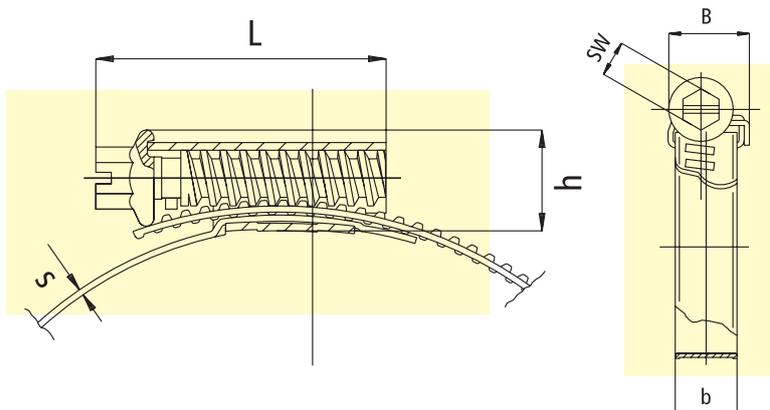
DIN 3017 of Steel W1

- Hose clips of steel W1, chrome-VI-free zinc plated and passivated
- Optimum sealing through high band tension – maximum strip safety
- Hose-protective through rounded edges and smooth band inside
- Thinner screw body with new position, therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, sizes 100–180 in plastic bags, from size 190 on loose
- For safe, fast and removable use on various hoses and fittings for different fluids

Material	Norm	Medium	Hexagon
W 1	DIN 3017	various	SW 7

High-Performance Hose Clips, band and lock steel W 1 zinc plated

Range mm	inch	torque		B	h	L	Weight/pc. g	Type No.		
		Band-width b	Band-thickness s							
8-12	5/18"–1/2"	9	2 + 0.5	0.7	14	11.5	20.5	12	100	HS 12
10-16	5/18"–5/8"	9	2 + 0.5	0.8	14	11.5	20.5	13	100	HS 16
12-22	1/2"–3/4"	9	3 + 0.5	0.8	14	11.5	24	16	100	HS 20
16-27	5/8"–1"	9	5 + 0.5	0.8	16	13	31	17	100	HS 25
20-32	3/4"–1 1/4"	12	5 + 0.5	0.8	16	13	31	27	50	HS 32
25-40	1"–1 5/8"	12	5 + 0.5	1.0	16	13	31	32	50	HS 40
30-45	1 3/8"–1 3/4"	12	5 + 0.5	1.0	16	13	31	33	50	HS 45
35-50	1 1/4"–2"	12	5 + 0.5	1.0	16	13	31	35	50	HS 50
40-60	1 5/8"–2 3/8"	12	5 + 0.5	1.0	16	13	31	39	25	HS 60
50-70	2"–2 3/4"	12	5 + 0.5	1.0	16	13	31	43	25	HS 70
60-80	2 3/8"–3 1/8"	12	5 + 0.5	1.0	16	13	31	45	25	HS 80
70-90	2 3/4"–3 1/2"	12	5 + 0.5	1.0	16	13	37	52	25	HS 90
80-100	3 1/8"–4"	12	5 + 0.5	1.0	16	13	37	53	10	HS 100
90-110	3 1/2"–4 3/8"	12	5 + 0.5	1.0	16	13	37	53	10	HS 110
100-120	4"–4 3/4"	12	5 + 0.5	1.0	16	13	37	58	10	HS 120
110-130	4 3/8"–5 1/8"	12	5 + 0.5	1.0	16	13	37	60	10	HS 130
120-140	4 3/4"–5 1/2"	12	5 + 0.5	1.0	16	13	37	63	10	HS 140
130-150	5 1/8"–5 7/8"	12	5 + 0.5	1.0	16	13	37	69	5	HS 150
140-160	5 1/2"–6 1/4"	12	5 + 0.5	1.0	16	13	37	71	5	HS 160
150-170	5 7/8"–6 5/8"	12	5 + 0.5	1.0	16	13	37	74	5	HS 170
160-180	6 1/4"–7"	12	5 + 0.5	1.0	16	13	37	77	5	HS 180
170-190	6 1/2"–7 1/2"	12	5 + 0.5	1.0	16	13	37	79	1	HS 190
180-200	7 1/8"–8"	12	5 + 0.5	1.0	16	13	37	81	1	HS 200
190-210	7 1/2"–8 1/4"	12	5 + 0.5	1.0	16	13	37	86	1	HS 210
200-220	8"–8 3/4"	12	5 + 0.5	1.0	16	13	37	92	1	HS 220
210-230	8 1/8"–9"	12	5 + 0.5	1.0	16	13	37	98	1	HS 230
220-240	8 3/4"–9 3/8"	12	5 + 0.5	1.0	16	13	37	101	1	HS 240
230-250	9"–9 3/4"	12	5 + 0.5	1.0	16	13	37	105	1	HS 250
240-260	9 3/8"–10 1/4"	12	5 + 0.5	1.0	16	13	37	108	1	HS 260
250-270	9 3/4"–10 1/2"	12	5 + 0.5	1.0	16	13	37	112	1	HS 270
260-280	10 1/4"–11"	12	5 + 0.5	1.0	16	13	37	116	1	HS 280



High-Performance Hose Clips

DIN 3017 of Stainless Steel W5

- Hose clips of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Thinner screw body with new position, therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for different fluids

Material	Norm	Medium	Hexagon
W 5	DIN 3017	aggressive	SW 7*

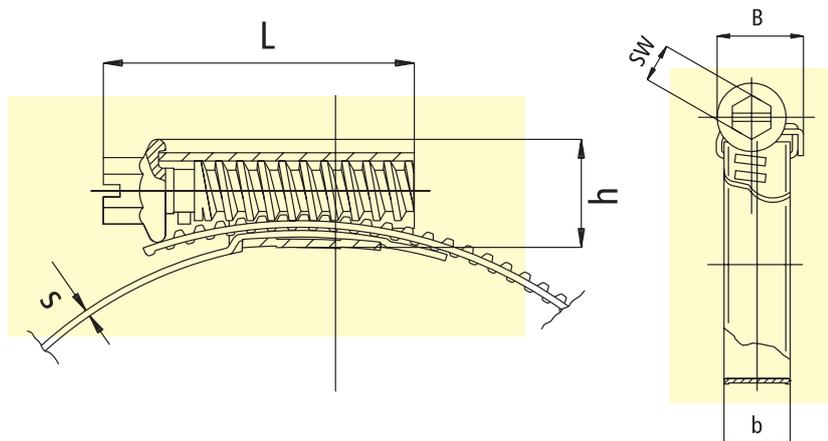
High-Performance Hose Clips, band and lock stainless steel W 5

Range	Band-width	torque		B	h	L	Weight/pc. g	Type No.
		b	s					
8–12	5/18"–1/2"	8	1.5	10.5	9.5	17	6	HSE 12*
8–16	5/18"–5/8"	9	2 + 0.5	14	14.5	21	11	HSE 16
12–20	1/2"–3/4"	9	2 + 0.5	14	14.5	24	13	HSE 20
16–25	5/8"–1"	9	3 + 0.5	14	14.5	24	14	HSE 25
20–32	3/4"–1 1/4"	9	3 + 0.5	14	14.5	24	15	HSE 32
25–40	1"–1 5/8"	9	3 + 0.5	14	14.5	26	18	HSE 40
32–50	1 1/4"–2"	9	3 + 0.5	14	14.5	26	18	HSE 50
40–60	1 5/8"–2 3/8"	9	3 + 0.5	14	14.5	26	20	HSE 60
50–70	2"–2 3/4"	9	3 + 0.5	14	14.5	26	21	HSE 70
60–80	2 3/8"–3 1/8"	9	3 + 0.5	14	14.5	26	23	HSE 80
70–90	2 3/4"–3 1/2"	9	3 + 0.5	14	14.5	26	25	HSE 90
80–100	3 1/8"–4"	9	3 + 0.5	14	14.5	26	28	HSE 100

*HSE 12 Hexagon 6 mm

Special Screw Driver hexagon, SW 7, with plastic handle

Type	Material	Weight/pc. g	Type No.
Rigid	steel chromated	89	SR STARR
Flexible	steel chromated	134	SR FLEX.



Ferrules for Low Pressure Hose Lines

- Ferrules of redhotted 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 danger of hurt, closed and unremovable connection
- For crimping of various hoses and fittings for different fluids

Max. Working Pressure		Material		Medium				
PN 16 bar		red hotted steel		various				
For hoses								
Ø Inside			Assembly-Machine	Weight/pc.			Type No.	
	DIN 20018	PVC		l	d	g		
12.5			SPR 333	17	8.5	3	100	LPH-12.5
13.5		6 x 3	SPR 333	20	9.3	5	100	LPH-13.5
14.5	6 x 3.5		SPR 333	17	10	5	100	LPH-14.5
16		8 x 3	SPR 333	17	11.5	5	100	LPH-16
18	9 x 3.5	10 x 3	SPR 333	20	13.5	7	100	LPH-18
19		12 x 3	SPR 333	20	13.9	9	100	LPH-19
19.5			SPR 333	26	14.5	10	100	LPH-19.5
21			SPR 333	26	14.5	12	100	LPH-21
22			SPR 333	32	17	16	100	LPH-22
23		13 x 3	SPR 333	32	17	18	100	LPH-23
25	13 x 5			32	17	19	100	LPH-25
28	15 x 6			32	20.5	22	100	LPH-28
30.5		19 x 4		33	24.3	24	100	LPH-30
33	19 x 6			35	24.8	40	100	LPH-33
38		25 x 4.5		35	28	47	25	LPH-38
41	25 x 7			40	30	64	25	LPH-41

For higher Working Pressure we recommend hydraulic crimping with turned steel-ferrules type PH (© page 219) 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 20 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Cheap:** Fast assembling at reasonable costs
- **Safe:** Improved safety through perfect fit
- **Elegant:** Reduced danger of hurt
- With two crimping-jaw sets for crimping range from 3 to 20 mm and from 10 to 20 mm,
- **Flexible: For mobile use**

For hoses					
Hose i.D.	Hose o.D.	Suitable ferrule	e.g. for fitting	Weight/pc. kg	Type No.
3–20 mm	10–22 mm	LPH 12.5-23	Pneumatic-Connect., Quick-Couplings	12.2	SPR-333



LÜDECKE

CONSTRUCTION INDUSTRY



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Sandblast Couplings

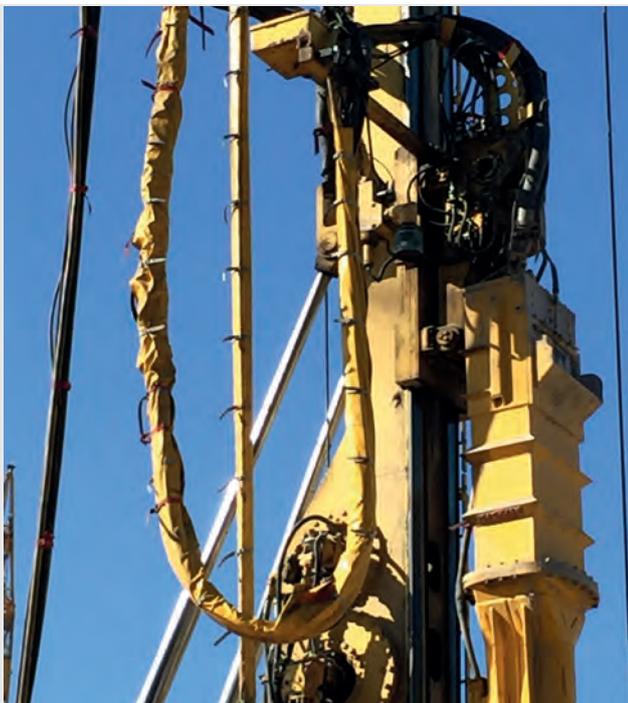
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Couplings for rough and extreme applications in the construction industry



Whether in classic construction, mining and tunneling, as well as ship yards or petro-chemical, including in the agriculture or food and beverage industry, coupling systems are requested to operate without failures.

In such applications coupling systems are requested to withstand extreme tasks and environmental influences. Therefore, the **LUDECKE** product portfolio for construction and industrial applications offers a high-end quality range, manufactured with high graded materials to fulfill nearly all kinds of requirements in the various industrial fields.

Within this catalogue you find a great variety of claw couplings, fittings, mortar and sandblast couplings, as well as chemical couplings and industrial fittings which will certainly convince you about the capabilities of **LUDECKE** and our products.



Additionally you find information on how important it is to operate with best in class products to avoid unintended downtimes and any kind of safety issues - our promise: **Engineered and Made in Germany** - by **LUDECKE**, will support this idea.



Overview of **LUDECKE** - Couplings for the construction and industrial area



Claw Couplings



Screwing Sets,
FlatLock Flat Hose
Screwings, Connecting
Nipples, Hose
Connections



Mortar Coupling
Systems



Sandblast Couplings



Throttle Valves



Hose Clamps

Robust and proven as reliable coupling systems over decades, for use in harsh environments. From the classic claw and mortar couplings through sandblast couplings up to throttle valves and hose clamps. Hose couplings and plugs available in nearly all known variations and profiles.





Highest quality for safe working

Avoid safety risks through quality

Enormous hazard potential caused by inferior material



Above: Original **LUDECKE** hose clamp (DIN 20039; malleable iron)
 Below: Counterfeit from the Far East (no manufacturer's branding, inferior material)

Often cheap copies are offered on the claw coupling market – mostly with low grade casted material and poorly manufactured. Also hose sets are highly affected due to the use of low quality hose clamps which are assembled and supplied, mostly from the Far East, are a dangerous combination.

The use of such assemblies (couplings and hose clamps) contain an uncontrollable risk in operation. Due to not imprecise casted hose barbs and high tolerances of hose clamps, a safe fitting on the hose barb cannot be guaranteed.

Many casted components show significant tolerances, which often leads to leakages and does not allow a tight and safe connection.

Copies of standardized fittings often show a high potential of cracking

Geometric differences of the fittings are one visual part of the overall hazardous potential. More difficult to recognize is the fact, that copies often manufactured with low quality materials and non-approved materials are used, i.e. ductile iron. The components may easily break or crack under heavy-duty utilization (i.e. assembled on strongly vibrating machines)



Original **LUDECKE** Claw Coupling (DIN 3489)

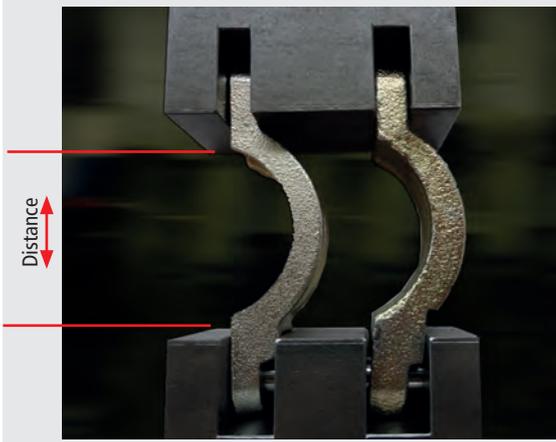


Counterfeit from the Far East (no manufacturer's branding, inferior material)

Torn off claw within a very short period of time

The above mentioned couplings and clamps contain an enormous safety risk in operation! For safety reasons we strongly recommend not to use these products. These products do not at all comply with DIN 3489/3238 for claw couplings and DIN 20039 for clamps.

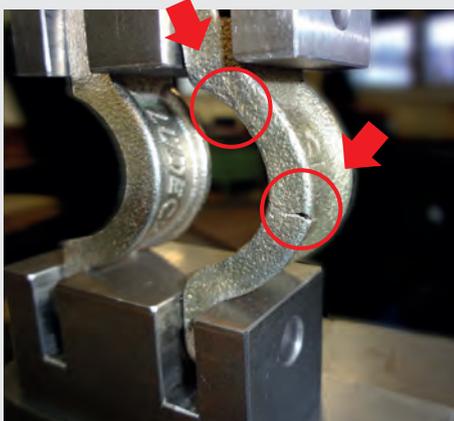
Breakage test with hose clamps



To illustrate the differences between the material qualities, **LUDECKE** consequently conducts fracture test with two hose clamps (original Luedecke hose clamp vs. a counterfeit from Far East) were inserted into a hydraulic press and tested under pressure.

Test setup - distance of 44,7 mm (left-hand: **LUDECKE** hose clamp, right-hand: counterfeit from the Far East)

Increasing the pressure at a distance of 40 mm the Far East counterfeit already shows cracking. While increasing the pressure slightly the clamp breaks completely. The original **LUDECKE** hose clamp made of malleable iron does not break despite major deformation.



Distance of 40 mm (cracking in the counterfeit, no cracks in the **LUDECKE** hose clamp)



Distance of 28 mm (complete break in the counterfeit, no rupture in the **LUDECKE** hose clamp)



Distance of 23 mm (completely destroyed counterfeit, no cracks in the **LUDECKE** hose clamp)

Safety by high-quality and standardized components

To avoid such safety risks the following essential facts requires your attention:

- Ductile iron is hard and very brittle due to the high amount of cementite steel and therefore inappropriate material for heavy duty applications.
- Malleable iron is a more work and cost intensive material to produce (due to the extraction of CO₂, the material becomes more flexible and elastic but harder in its structure), however it shows strongly improved mechanical qualities that are essential in strongly oscillating or vibrating applications
- To avoid the utilization of plagiarism, it is necessary to ensure, that the products are marked with a manufacturer's branding according to the current standards
- Only components that are in compliance with the existing standards (DIN 3489, DIN 3238, DIN 20039) should be sold and installed



Claw Couplings

The robust classic



The **LUDECKE** success story started with the development of claw couplers. To date, this coupling type is used worldwide in various compressed air applications in the industrial and construction industry.

The function is an easy symmetrical coupling design with 2 claw heads. Both claw ends need to be pushed together, turned 45° and interlock with it's claws. All various connection port sizes and sealing systems are connectable.

Malleable iron is the only material **LUDECKE** uses in its manufacturing process (exception in stainless steel) – this cast material allows, due to its heating treatment, the required flexibility also for thin walled materials and offers the required flexibility against breaking and complies with DIN 3489 and 3238.

The classic claw coupling



Mody- Safety- Screwtype Coupling



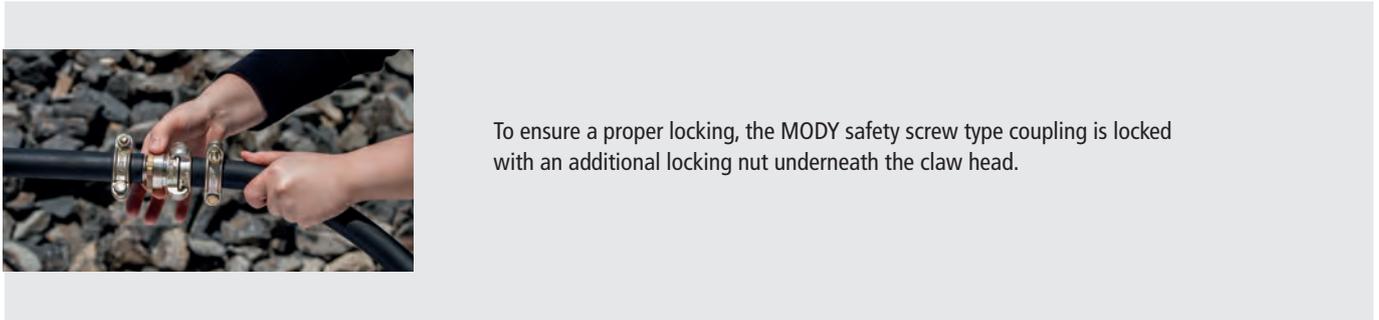
We recommend to use a standard claw coupling on one end and a Mody Safety version on the other end. This connection is absolutely safe, easy to couple and 100 % sealed.

The Coupling Concept: Simply Brilliant

Both claw heads are pushed together so the sealing surfaces are in touch. Then the two ends are turned until the claws are engaged.



To disconnect press the two ends together, twist them backwards to open and take off one end.

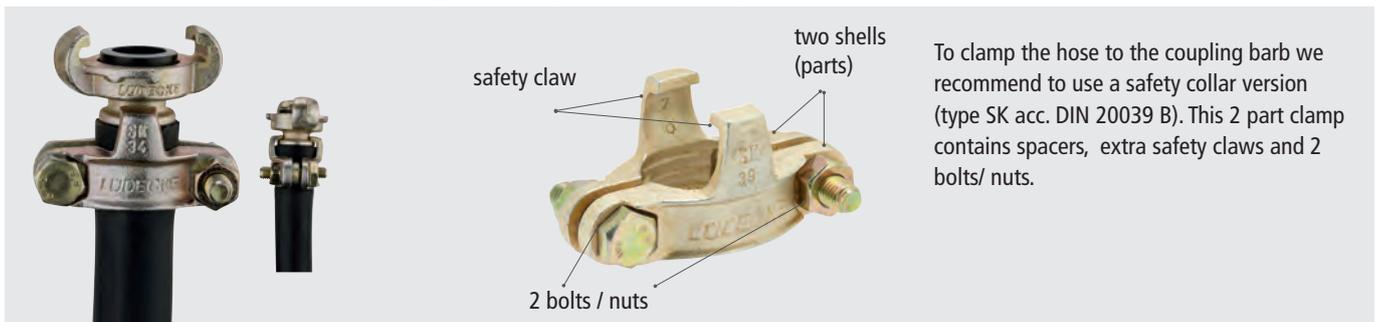


To ensure a proper locking, the MODY safety screw type coupling is locked with an additional locking nut underneath the claw head.

Safe Hose fit: Claw couplings with a safety collar

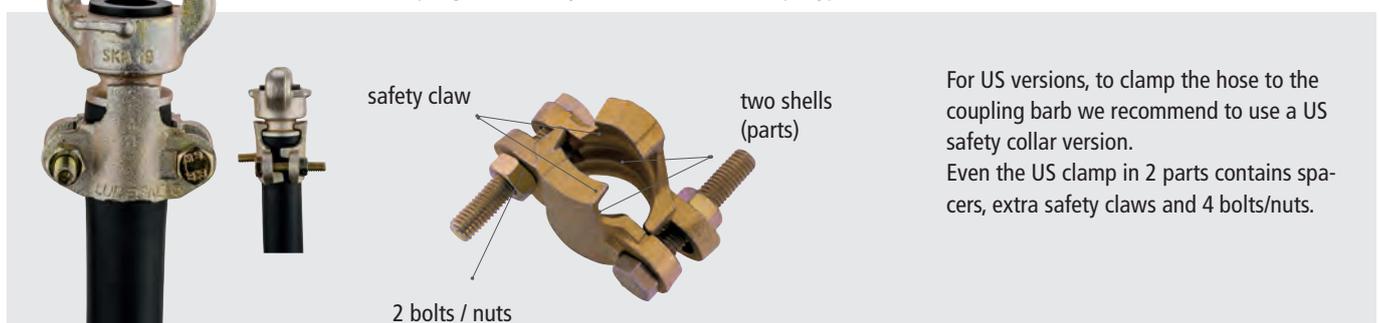
Most of our couplings are available with an additional safety collar on the hose barb. In combination with our special safety clamps a perfect and ultimate tight fixing of a hose can be provided. The special claws of the clamp provide an interlock on the collar to the hose barb. These safety clamps prevent any kind of movement or even an unintended slip off the hose of the coupling barb. Additionally this design offers a technical and correct assembly of the hose – prevents wrong assembly.

Claw couplings with safety collar + hose clamp DIN 20039 B (Type SK)



To clamp the hose to the coupling barb we recommend to use a safety collar version (type SK acc. DIN 20039 B). This 2 part clamp contains spacers, extra safety claws and 2 bolts/ nuts.

US-claw couplings with safety collar + US hose clamp (Typ LB/SKA/LBU)



For US versions, to clamp the hose to the coupling barb we recommend to use a US safety collar version. Even the US clamp in 2 parts contains spacers, extra safety claws and 4 bolts/nuts.

Claw couplings acc. DIN 3238 – Overview

DIN 3238 for claw couplings

Special requirements

- Threads according to **DIN-ISO 228/1**
- Claw couplings and sealing rings corresponding to this standard **must have manufacturer markings!**
- Working pressure **max. 16 bar**
- **100 % visual control**
- **100 % function test with gauge (coupling control).**
- **Approved raw materials used only:**
 Malleable Iron: EN-GJMW-400-5(EN-JM1030) according to DIN EN 1562
 M1-Alloy: Alloy DIN 17660-CuZn39Pb2 (2.0380)
 Steel: Type to be chosen by manufacturers
 11SMnPb30 (1.0718) according to DIN EN 10087 · 11SMnPb30 (1.0718) according to DIN EN 10277-3
 X5CrNi Mo 17-12-2 (1.4401) according to DIN EN 10088-1 · G-X5CrNiMo 19-11-2 (1.4408) according to DIN EN 10213-4
 G-X5CrNiMoNb 19-11-12 (1.4581) according to DIN EN 10213-4
- New claw dimensions
- New seal
- New seal holder - 2 way guidance



MODY-Safety- Screwing Coupling of malleable iron/steel

- Instead of expensive and unhandy hosebreak secure systems
- Easy to couple, secured against accidental opening: screw ring after coupling
- For absolutely safe air lines in construction and industry

Technical data

Max. Working Pressure:	PN 16 bar
Temperature:	-40°C - +95°C
Material:	malleable iron/steel
Medium:	compressed air
Claw Distance:	42 mm
Material Seal:	Perbunan
Threads:	ISO 228



(© Page 190)

■ RAL 5010 ■ RAL 6029 ■ RAL 1004 ■ RAL 2002

MODY-Safety-Screwing Couplings of stainless steel

- Of rust- and acid-resistant steel 1.4305 with acid-resistant rubber ring
- Investment casted, perfect surface finish
- For tank- or container construction in chemical or petrochemical industry as well as food- or drinking-water applications



Technical data

Maximum Working Pressure:	PN 16 bar
Temperature:	-30°C - +200°C
Material:	stainless steel 1.4305
Medium:	chemical substances
Claw Distance:	42 mm
Material Seal:	FKM
Threads:	ISO 228

(more information in our stainless steel section
 © Page 306)

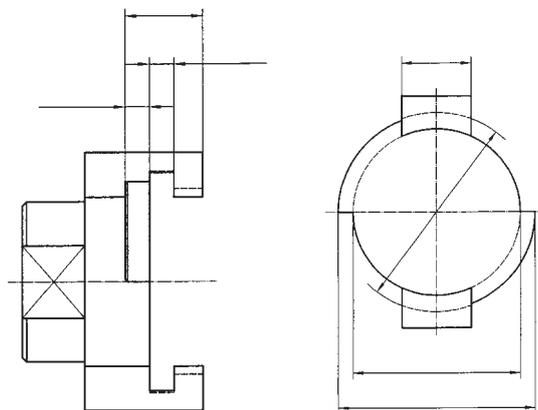
Claw couplings acc. DIN 3489 – Overview

DIN 3489 for claw couplings

Special requirements

- Threads according to **DIN ISO 228/2**
- Claw couplings and sealing rings corresponding to this standard **must have manufacturer markings!**
- Working pressure **max. 10 bar**
- **100 % visual control** required
- **100 % function test with gauge (coupling control).**
- **Approved raw materials used only:**
 Malleable Iron: EN-GJMW-400-5(EN-JM1030) according to DIN EN 1562
 M1-Alloy: Alloy DIN 17660-CuZn39Pb2 (2.0380)
 Steel: Type to be chosen by manufacturer
 11SMnPb30 (1.0718) according to DIN EN 10087
 11SMnPb30 (1.0718) according to DIN EN 10277-3
 X5CrNi Mo 17-12-2 (1.4401) according to DIN EN 10088-1
 G-X5CrNiMo 19-11-2 (1.4408) according to DIN EN 10213-4
 G-X5CrNiMoNb 19-11-12 (1.4581) according to DIN EN 10213-4
- New claw dimensions

Test gauge for claw couplings



Standard Claw Couplings of malleable iron

- universal coupling: worldwide system for compressed air in construction and industry

Technical data

Max. Working Pressure: PN 10 bar
 Temperature: -40°C - +95°C
 Material: malleable iron
 Medium: compressed air
 Claw Distance: 42 mm
 Material Seal: Perbunan
 Threads: ISO 228



KAG



KIG



SKG



VKO

(© Page 188)

Swivelling Claw Couplings made of malleable iron/steel

- 360° swivelling, easy to swivel under pressure, no hose twist
- For flexibility of compressed air lines in construction and industry
- When used as a threaded version and assembled on a tool – duration time up to 10 times longer vs a standard coupling (swivel function absorbs all vibrations)

Technical data

Max. Working Pressure: PN 10 bar
 Temperature: -40°C - +95°C
 Material: malleable iron
 Medium: compressed air
 Claw Distance: 42 mm
 Material Seal: Perbunan
 Threads: ISO 228



KAG-DR



KIG-DR



SKG-DR

(© Page 187)

Standard Claw Couplings of Stainless Steel



EKA
EKI

Standard Claw Couplings of stainless steel

- Of corrosion - resistant steel 1.4305 with acid-resistant rubber ring
- Investment casted, perfect surface finish
- For tank or container manufacture in chemical or petrochemical industry as well as food or drinking water applications

Technical data

Max. Working Pressure: PN 16 bar
 Temperature: -30°C - +200°C
 Material: stainless steel 1.4401
 Medium: chemical substances
 Claw Distance: 42 mm
 Material Seal: FKM
 Threads: ISO 228

(more information in our stainless steel section © Page 306)

Other Claw Couplings



Claw Coupling with brass seal

- Prevents sticking of seals when coupled
- Always to be coupled with a standard claw coupling with Buna N seal
- Universal couplings for compressed air lines in construction or industry, mainly used directly on compressor or air tool

(© Page 192)



Claw Coupling with bore for safety-clips

- Additional safety feature by using the safety-clips DIN 11024 to prevent unintentional opening
- Universal coupling, worldwide system mainly used in mining and tunneling

(© Page 193)



Claw Coupling left-closing and colour coated

- Cannot be connected with standard claw couplings (right-closing), additional warning through ears at the claws or colour coated
- Screwing nut
- In chemical or petrochemical plants to avoid connection of different fluids i.a. compressed air, steam, gas media, nitrogen

(© Page 194)



Claw Coupling hardened steel, compatible to type "Atlas Copco"

- Equivalent to type "Atlas Copco"
- Maximum bore for maximum flow capacity to reach full tool performance
- High quality coupling for compressed air in construction and industry

(© Page 195)

RAL 5010
 RAL 6029
 RAL 1004
 RAL 2002



Claw Coupling of forged brass

- "French System"
- 42 mm claw distance
- For compressed air and water in construction, agriculture and industry

(© Page 196)



Claw Coupling US-Version with bore for safety-clips

- Robust standard couplings and MODY-Safety/Screwing Couplings
- 41 mm claw distance
- Additional safety feature by using the safety clips DIN 11024 to prevent accidental opening
- US-universal coupling, widely spread system for compressed air in construction and industry

(© Page 197)

- High quality couplings, head of malleable iron, thread connections and hose stem of turned steel with special profile, zinc-plated and yellow passivated (free of chrome VI)
- 360° swivelling, easy turning under pressure, therefore no hose twist
- 2 parts, sealing through 2 O-rings, swivelling on 2 teflon-discs, safe and protected
- 100 % tight through machined seal holder, standard rubber ring can be used
- Full bore for increased flow capacity
- On request with steam resistant rubber ring against surcharge
- 100 % couple test and sight control
- For flexibility of compressed air lines 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!

Max. Working Pressure	Temperature	Material	Mat. Seals	Norm	Medium	Threads	Claw Distance	⊗
PN 16 bar	-40°C – +95°C	malleable iron / steel	Perbunan	DIN 3489	compressed air	ISO 228	42 mm	5

Hose Claw Couplings Standard Version

Hose i.D.	DN	b	h	Stem Length	Weight/pc. g	Type No.
1/2" = 13 mm	10	63	87	41	221	SKG 13-DR
3/4" = 19 mm	15	63	87	41	230	SKG 19-DR
1" = 25 mm	19	63	87	41	260	SKG 25-DR

For hose clamps DIN 20039 A type SL (⊗ catalogue page 225) or crimping sockets type LPH (⊗ catalogue page 347)

Hose Claw Couplings with safety collar

Hose i.D.	DN	b	h	∅ collar	Stem Length	Weight/pc. g	Type No.
1/2" = 13 mm	10	63	96	24	41	236	SKB 13-DR
3/4" = 19 mm	15	63	98	34	41	250	SKB 19-DR
1" = 25 mm	19	63	98	39	41	290	SKB 25-DR

For hose clamps DIN 20039 B type SK (⊗ catalogue page 225)

Female Claw Couplings

Thread	DN	b	h	Thread Length	Weight/pc. g	Hexagon	Type No.
G 1/2"	17	63	61	15	240	24	KIG 12-DR
G 3/4"	17	63	85	15	330	32	KIG 34-DR
G 1"	17	63	90	15	430	41	KIG 10-DR

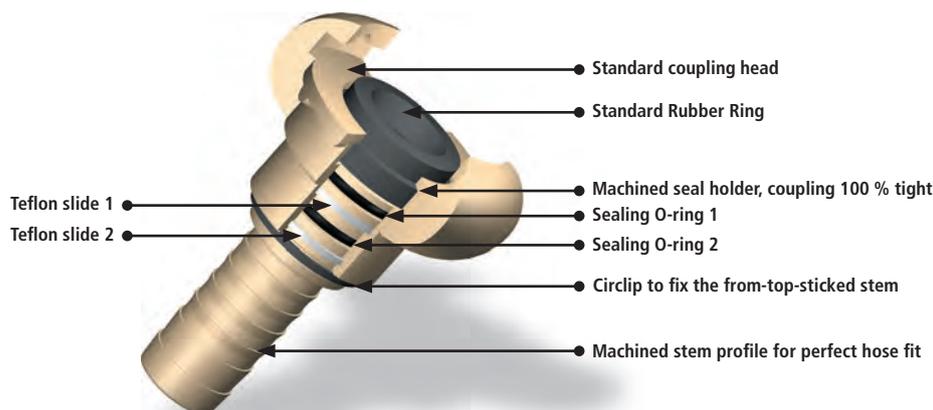
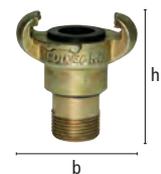
Male Claw Couplings

Thread	DN	b	h	Thread Length	Weight/pc. g	Hexagon	Type No.
G 1/2"	13	63	67	14	240	24	KAG 12-DR
G 3/4"	17	63	68	15	236	24	KAG 34-DR
G 1"	19	63	83	15	315	36	KAG 10-DR

Original Rubber Rings

Resistance	Temp.°C	Medium	Material	Colour	Shore A	∅i	∅a	h	Weight/pc. g	⊗	Type No.
Oil	-40 – +95	compr. air	Perbunan	black	65°	20	34	11	6 g	100	GOER
Steam	-40 – +200	steam	TFEP	red	65°	20	33	10	6 g	10	GDOR

NEW!



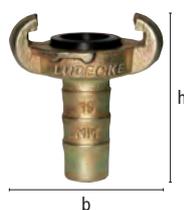
Claw Couplings

Standard Version DIN 3489

- Robust couplings of malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- 100 % couple test and sight control
- With oil-resistant rubber ring GOER, on request with steam-resistant rubber ring GDOR (up to 200°C) against surcharge
- Universal coupling, world-wide used system for compressed air in construction and industry

Max. Working Pressure	Temperature	Material	Medium	Claw Distance	Norm	Mat. Seal	Threads	
PN 10 bar	-40°C – +95°C	malleable iron	compressed air	42 mm	DIN 3489	Perbunan	ISO 228	10

Hose Claw Couplings (formerly DIN 3483)



Hose i.D.	DN	b	h	Weight/pc. g	Type No.
1/4" = 6 mm	5	63	70	157	SKG 6
3/8" = 10 mm	7	63	76	150	SKG 10
1/2" = 13 mm	8.5	63	69	141	SKG 13
5/8" = 15 mm	11	63	69	142	SKG 15
3/4" = 19 mm	15	63	69	155	SKG 19
1" = 25 mm	19	63	70	176	SKG 25
1 1/4" = 32 mm	20	63	90	244	SKG 32

For hose clamps DIN 20039 A type SL (☺ catalogue page 225) or crimping sockets type LPH (☺ catalogue page 347)

Hose Claw Couplings with safety collar

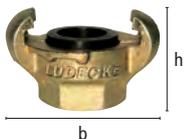


Hose i.D.	DN	b	h	∅ collar	Weight/pc. g	Type No.
1/2" = 13 mm	8.5	63	75	25	174	SKB 13
5/8" = 15 mm	11	63	75	26	175	SKB 15
3/4" = 19 mm	15	63	73.5	24	160	SKB19 FL*
3/4" = 19 mm	15	63	75	28.5	182	SKB 19
1" = 25 mm	20	63	75	40	240	SKB 25
1" = 25 mm	20	63	75	30	190	SKB 25 FL*

*flathose version, integrated with hose clamps SK..FL

For hose clamps DIN 20039 B, type SK (☺ catalogue page 51), safe hose assembly.

Female Claw Couplings (formerly DIN 3482)



Thread	DN	b	h	∅Hexagon	Weight/pc. g	Type No.
G 1/4"	11	63	36	22	138	KIG 14
G 3/8"	15	63	36	22	135	KIG 38
G 1/2"	19	63	38	27	150	KIG 12
G 1/2"	19	63	41	-	180	KIGO 12**
G 3/4"	20	63	40	32	155	KIG 34*
G 3/4"	20	63	41	-	155	KIGO 34**
G 1"	20	63	40	41	184	KIG 10*
G 1 1/4"	20	63	55	50	297	KIG 54

* against surcharge also available with NPT-Thread

** without Hexagon

Blank Ends (formerly DIN 3484)



Version	b	h	Weight/pc. g	☒	Type No.
without chain	63	43	130	10	VKO
with chain	63	43	140	10	VKM
chain (spare part)	200		7	25	VKM-K

Claw Couplings

Standard Version DIN 3489

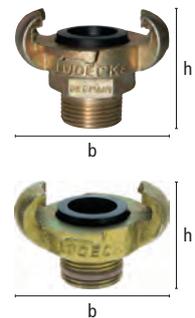
Male Claw Couplings (formerly DIN 3481)

Thread	DN	b	h	Hexagon	Weight/pc. g	Type No.
G 1/4"	6	63	50	22	157	KAG 14
G 3/8"	9	63	52	27	170	KAG 38
G 1/2"	13	63	47	27	162	KAG 12*
G 3/4"	17	63	50	32	175	KAG 34*
G 3/4"	17	63	41	-	150	KAGO 34**
G 1"	20	63	47	40	174	KAG 10*
G 1"	20	63	41	-	165	KAGO 10**
G 1 1/4"	20	63	52	46	230	KAG 54

Easy male thread sealing with PVC-Packing rings type HPD (© below)

* against surcharge also available with NPT-Thread

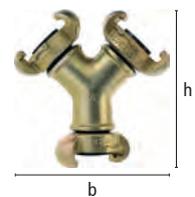
** without Hexagon, with LÜDSY-sealing ring



Max. Working Pressure	Temperature	Material	Medium	Threads	Claw Distance	Mat. Seals	⊞
PN 10 bar	-40°C – +95°C	malleable iron	compressed air	DIN 2999	42 mm	Perbunan	1

Three-way connections with threaded ends or claw couplings (rubber seal)

Connection	DN	b	h	Weight/pc. g	Type No.
3 x R 3/4" f	24	68	68	255	DWS 34
3 x KAGO 34	17	120	120	708	DWSG 34
3 x R 1" f	30	85	85	413	DWS 10
3 x KAGO 10	21	130	135	905	DWSG 10



Original Rubber Rings for Standard Claw Couplings DIN 3489

Resistance	Material	Temp. °C	Medium	Colour	Shore	h. A	⊘i	⊘a	h	Weight/pc. g	⊞	Type No.
Oil	Perbunan	-40 – +95	compr. air	black	65°	20	34	11	6	100	GOER	
Steam	TFEP	-40 – +200	steam	red	65°	20	33	10	6	10	GDOR	
Chemicals	FKM	-40 + 200	chemical	green	50°	20	34	10.5	9	10	GVOR	



NEW!

Hard-PVC-Packing Rings for fast, easy and tight sealing of male threads

For male thread	⊘i	⊘a	h	⊞	Weight/pc. g	Type No.
G 1/8"	10	13	1.5	100	0.13	HPD 18
G 1/4"	13.3	16.4	2	100	0.31	HPD 14
G 3/8"	16.7	21.5	2	100	0.37	HPD 38
G 1/2"	21.5	26	2	100	0.53	HPD 12
G 3/4"	26.5	31.4	2	100	0.73	HPD 34
G 1"	33.5	40	2	100	1.15	HPD 10



Claw Couplings

MODY-Safety-Screwing Couplings DIN 3238



- Recommended instead of expensive and unhandy hosebreak secure systems (whip-check)
- High quality safety coupling, head of malleable iron, hose stem of turned steel with special profile, zinc-plated and yellow passivated (free of chrome VI)
- Stronger thread - protective ring and new rubber ring, on both sides led in seal holder
- With oil resistant rubber ring, on request with steam resistant rubber ring (up to 200°C),
- 100 % tight, reduces expensive air consumption
- Easy to couple, secured against accidental opening, just screw ring after coupling!
- 100 % couple test and sight control
- Maximum bore for more flow capacity
- For absolutely safe air lines in construction and industry

Max. Working Pressure	Temperature	Material	Mat. Seal	Medium	DIN	Threads	Claw Distance	
PN 16 bar	-40°C – +95°C	mall. iron / steel	Perbunan	compr. air	DIN 3238	ISO 228	42 mm	5



MODY-Safety-Hose Couplings Standard Version

Hose i.D.	DN	b	h	Weight/pc. g	Type No.
3/8" = 10 mm	6.5	63	100	309	SSG 10
1/2" = 13 mm	10	63	100	309	SSG 13
5/8" = 15 mm	11	63	100	316	SSG 15
3/4" = 19 mm	15	63	100	319	SSG 19
1" = 25 mm	18	63	100	346	SSG 25
1 1/4" = 32 mm	18	63	135	464	SSG 32

For hose clamps DIN 20039 A type SL (© catalogue page 225) or crimping sockets type LPH (© catalogue page 347)



MODY-Safety-Hose Couplings with safety collar

Hose i.D.	DN	Øcollar	b	h	Weight/pc. g	Type No.
3/8" = 10 mm	6.5	21	63	103	323	SSG 10 S
1/2" = 13 mm	10	24	63	110	321	SSG 13 S
5/8" = 15 mm	11	27	63	112	343	SSG 15 S
3/4" = 19 mm	15	32	63	112	350	SSG 19 S
1" = 25 mm	18	39	63	112	386	SSG 25 S

For hose clamps DIN 20039 B type SK (© catalogue page 225)



MODY-Safety-Hose Couplings for crimping sockets (hydraulic crimping)

Hose i.D.	DN	Øcollar	b	h	Weight/pc. g	Type No.
3/4" = 19 mm	15	24	63	108	359	SSG 19 PH

Crimping with crimping socket PH-19 (© catalogue page 219)

Other sizes on request



MODY-Safety-Hose Couplings for Aluminium forged clamps

Hose i.D.	DN	Øcollar	b	h	Weight/pc. g	Type No.
3/4" = 19 mm	15	26	63	110	340	SSG 19-KSA

For aluminium forged clamps VG 85 328 type KSA 30-33 (© catalogue page 319)



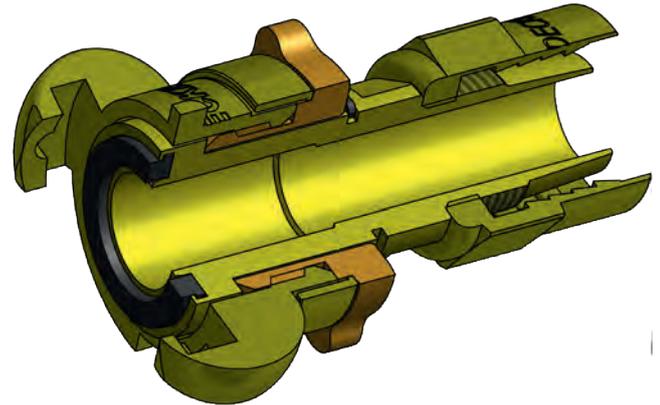
MODY-Safety-Hose Couplings with brass safety clamp for steam applications

For Hose	DN	Mat. sealing ring	b	h	Weight/pc. g	Type No.
13 x 6 (1/2")	10	TFEP (SDOR-N)	63	113	820	SSG 13 KSM
19 x 7 (3/4")	15	TFEP (SDOR-N)	63	113	920	SSG 19 KSM
25 x 7.5 (1")	18	TFEP (SDOR-N)	63	113	1120	SSG 25 KSM

Claw Couplings MODY-Safety-Screwing Couplings DIN 3238

- Thread ferrule according to DIN EN 14 424 as the perfect hose connection for optimum security; at any time unlockable and reusable.

Please pay attention to the details for the essential hose wall thickness!



MODY-Safety-Hose Couplings with thread ferrule (according to DIN EN 14 424)

Hose Dimension	DN	b	h	⊘ferrule	Weight/pc. g	Type No.
1/2" = 13 x 3	11	63	92	27	400	SSG 133 TQ
1/2" = 13 x 5	11	63	92	27	405	SSG 135 TQ
5/8" = 15 x 5	13	63	95	32	415	SSG 155 TQ
3/4" = 19 x 5	16	63	95	32	435	SSG 195 TQ
3/4" = 19 x 6	16	63	95	36	440	SSG 196 TQ
1" = 25 x 5	22	63	105	41	510	SSG 255 TQ
1" = 25 x 7	22	63	105	46	520	SSG 257 TQ

(Size 1" two parts screwed)

Assembly instructions for thread ferrules (© catalogue page 359)



MODY-Safety Female Couplings

Thread	DN	b	h	⊘Hexagon	Weight/pc. g	Type No.
G 3/8"	13	63	68	24	347	SSGI 38
G 1/2"	17	63	70	24	329	SSGI 12
G 3/4"	17	63	93	32	419	SSGI 34
G 1"	17	63	95	41	516	SSGI 10

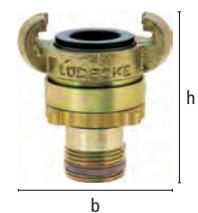
On request also available with NPT thread against surcharge



MODY-Safety Male Couplings with LÜDSY-sealing system

Thread	DN	b	h	⊘Hexagon	Weight/pc. g	Type No.
G 3/8"	10	63	72	24	320	SSGA 38
G 1/2"	13	63	73	24	351	SSGA 12
G 3/4"	17	63	73	24	345	SSGA 34
R 1"	17	63	85	36	401	SSGA 10

On request also available with NPT thread against surcharge



Original MODY-Rubber Rings – Standard Version

Resistance	Material	Temp.°C	Medium	Colour	Shore h. A	⊘i	⊘a	h	Weight/pc. g	⊠	Type No.
Oil	Perbunan	-40 – +95	compr. air	black	75°	21	30	4	1.7	50	SGOR-N
Steam	TFEP	-40 – +200	steam	red	65°	21	30	4	1.7	10	SDOR-N



Original MODY-Rubber Rings – Old Version (Only suitable for MODY-Couplings with old seal holder!)

Resistance	Material	Temp.°C	Medium	Colour	Shore A	⊘i	⊘a	h	Weight/pc. g	⊠	Type No.
Oil	Perbunan	-40 – +95	compr. air	black	60°	21	33	7	4	50	SGOR



NEW!

All Types also available coloured (powder-coated) against surcharge.

RAL 5010
 RAL 6029
 RAL 1004
 RAL 2002
 ...Others on request



Ⓢ Attention: At least 100 pc/type necessary!

Claw Couplings

with brass seal

- Robust couplings of malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- 100 % couple test and sight control
- With brass seal, oil-resistant hose ring and zinc-plated screw
- Easy to couple, no independent remove of the seal
- Prevents sticking of seals when coupled
- Always to be coupled with a standard claw coupling with Perbunan seal!
- **Universal couplings for air lines in construction or industry, mainly used directly on compressor or air tool**

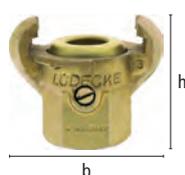
Max. Working Pressure	Temperature	Material	Medium	Claw Distance	Mat. Seal	Threads	
PN 10 bar	-40°C – +95°C	malleable iron	compressed air	42 mm	Brass / Perbunan	ISO 228	10

Hose Claw Couplings with brass seal

Hose i.D.	DN	b	h	Weight/pc. g	Type No.
1/2" = 13 mm	8.5	63	78	212	SKM 13*
5/8" = 15 mm	11	63	88	226	SKM 15*
3/4" = 19 mm	15	63	84	211	SKM 19
1" = 25 mm	19	63	84	225	SKM 25

For hose clamps type SL DIN 20039 A (© catalogue page 225)

*two parts with thread stem of steel



Female Claw Couplings with brass seal

Thread	DN	b	h	Hexagon	Weight/pc. g	Type No.
G 1/2"	17	63	50	32	220	KIM 12
G 3/4"	17	63	50	32	200	KIM 34
G 1"	17	63	52	41	260	KIM 10



Male Claw Couplings with brass seal

Thread	DN	b	h	Hexagon	Weight/pc. g	Type No.
G 1/2"	11	63	55	27	193	KAM 12
G 3/4"	17	63	51	32	206	KAM 34
G 1"	17	63	48	40	213	KAM 10

Easy male thread sealing with PVC-Packing rings type HPD (© catalogue page 189)

Original spare parts brass seal

Type	∅i	∅a	h	Weight/pc. g		Type No.
Brass sleeve	17	32	21	12.5	10	MOOH
Perbunan hose ring	23	28	12	3.2	100	SOOR
Steel screw M5	-	7	14	2	100	HOOS



Claw Couplings

with bore for safety-clips

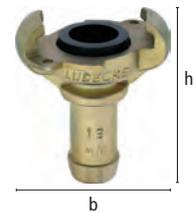
- Robust couplings of malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- 100 % couple-test and sight control
- With oil-resistant rubber ring GOER, on request with steam-resistant rubber ring GDOR (up to 200°C) against surcharge
- To be secured against accidental opening through safety-clips DIN 11024
- Universal coupling, mainly used worldwide in mining or tunneling

Max. Working Pressure	Temperature	Material	Medium	Claw Distance	Mat. Seal	Threads	⊠
PN 10 bar	-40°C – +95°C	malleable iron	compressed air	42 mm	Perbunan	ISO 228	10

Hose Claw Couplings with safety collar

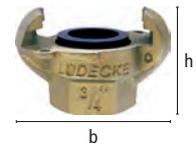
Hose i.D.	DN	b	h	Weight/pc. g	Type No.
1/2" = 13 mm	8.5	63	74	167	SKSS 13
3/4" = 19 mm	15	63	75	196	SKSS 19
1" = 25 mm	19	63	75	222	SKSS 25

For hose clamps DIN 20039 B, type SK (⊗ catalogue page 225), safe hose assembly



Female Claw Couplings

Thread	DN	b	h	⊠Hexagon	Weight/pc. g	Type No.
G 1/2"	18.5	63	37	27	141	KISS 12
G 3/4"	20	63	39	32	145	KISS 34
G 1"	20	63	41	41	182	KISS 10



Male Claw Couplings

Thread	DN	b	h	⊠Hexagon	Weight/pc. g	Type No.
G 1/2"	13	63	49	27	170	KASS 12
G 3/4"	17	63	49	32	182	KASS 34
G 1"	20	63	53	39	199	KASS 10

Easy male thread sealing with PVC-Packing rings type HPD (⊗ catalogue page 189)



Original Rubber Rings

Resistance	Temp.°C	Medium	Material	Colour	Shore h. A	⊘i	⊘a	h	Weight/pc. g	⊠	Type No.
Oil	-40 – +95	compr. air	Perbunan	black	65°	20	34	11	6	100	GOER
Steam	-40 – +200	steam	TFEP	red	65°	20	33	10	6	10	GDOR

NEW!



Universal Safety-Clips DIN 11024

Material	Wire ⊘	b	h	Weight/pc. g	⊠	Type No.
Steel zinc-plated	3 mm	63	27	10	50 St.	USC-1



Claw Couplings

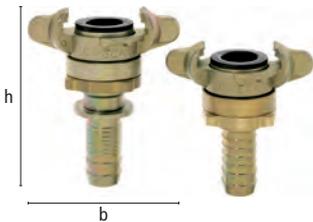
Left-closing and coloured



- Robust couplings of malleable iron or steel, zinc-plated and yellow passivated (free of chrome VI)
- 100 % couple-test and sight control
- With oil-resistant rubber ring SGOR-N, on request with steam-resistant rubber ring SDOR-N (up to 200°C) or with brass seal and standard seal
- Through left-closing mechanism the couplings can't be connected with standard claw couplings (right-closing), additional warning through ears at the claws or colour
- Screwing nut at Mody-Safety-Couplings with left-closing thread
- **Mainly used in chemical and petrochemical plants to avoid connection of different fluids, f.e compressed air, steam, gas medias, nitrogen...**

Max. Working Pressure	Temperature	Material	Medium	Claw Distance	Mat. Seal	Threads	
PN 10 bar / 16 bar	-40°C – +95°C	malleable iron / steel	various	42 mm	brass / Perbunan	ISO 228	1

Hose Claw Couplings left-closing



Hose i.D.	DN	Type	b	h	Safety collar	Weight/pc. g	Mat. Seal	Type No.
3/4" = 19 mm	16	MODY	85	100	without	340	Perbunan	SSGL 19
3/4" = 19 mm	16	MODY	85	112	with	367	Perbunan	SSGL 19 S
3/4" = 19 mm	16	brass seal	85	84	without	240	Brass	SKML 19

Other sizes on request.

For hose clamps DIN 20039 A or B (© catalogue page 225)

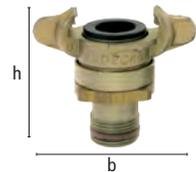
Female Claw Couplings left-closing



Thread	DN	Type	b	h	Hexagon	Weight/pc. g	Mat. Seal	Type No.
G 3/4" f	20	standard	85	38	40	210	Perbunan	KIGL 34
G 3/4" f	19	MODY	85	93	32	434	Perbunan	SSGIL 34
G 1" f	20	standard	85	39	40	180	Perbunan	KIGL 10

Other sizes on request.

Male Claw Couplings left-closing



Thread	DN	Type	b	h	Hexagon	Weight/pc. g	Mat. Seal	Type No.
G 3/4" a	19	MODY	85	73	24	339	Perbunan	SSGAL 34

Other sizes on request.

Original Standard-Rubber Rings

(© catalogue page 197)

Original MODY-Rubber Rings – Standard Version

(© catalogue page 191)

Original MODY-Rubber Rings – Old Version

(© catalogue page 191)

Original Spare Parts Brass Seal



Type	∅i	∅a	h	Weight/pc. g		Type No.
Brass sleeve	17	32	21	12.5	100	MOOH
Perbunan hose ring	23	28	12	3.2	100	SOOR
Steel screw M5	-	7	14	2	100	HOOS



All types also available coloured (powder-coated) against surcharge!

RAL 5010
 RAL 6029
 RAL 1004
 RAL 2002
 ...others on request.

Ⓢ Attention: At least 100 pc/type necessary!

Claw Couplings

of forged steel, hardened. Compatible to Type „Atlas Copco“

- Extremely robust, durable coupling of forged steel, 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) against surcharge of
- Maximum bore for maximum flow capacity to reach full tool performance
- Turned seal holder, therefore 100 % tight
- Turned stem profile for perfect fit of the hose
- High Quality coupling for compressed air in construction and industry

Max. Working Pressure	Temperature	Material	Medium	Claw Distance	Mat. Seal	Threads	☒
PN 10 bar / 16 bar	-40°C – +95°C	steel hardened	compressed air	42 mm	Perbunan	ISO 228	10

Hose Claw Couplings

Hose i.D.	DN	b	h	Weight/pc. g	Type No.
1/4" = 6.3 mm	5	62	58	122	ACK 14 T
3/8" = 10 mm	8	62	63	141	ACK 38 T
1/2" = 12.5 mm	10.5	62	63	136	ACK 12 T
5/8" = 16 mm	13.5	62	65	144	ACK 58 T
3/4" = 20 mm	17	62	70	165	ACK 34 T
1" = 25 mm	20	62	73	173	ACK 10 T

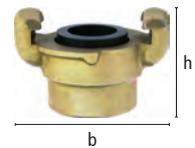
For hose clamps DIN 20039 A, type SL (☒ catalogue page 225)

Swivelling Version (against hose twist) on request.



Female Claw Couplings*

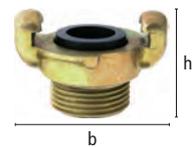
Thread	DN	b	h	Weight/pc. g	Type No.
G 3/8"	15	62	40	182	ACK 38 I
G 1/2"	19	62	40	203	ACK 12 I
G 5/8"	19	62	40	194	ACK 58 I
G 3/4"	20	62	40	176	ACK 34 I
G 1"	20	62	40	160	ACK 10 I



Male Claw Couplings*

Thread	DN	b	h	Weight/pc. g	Type No.
G 3/8"	11	62	40	142	ACK 38 A
G 1/2"	15	62	40	152	ACK 12 A
G 5/8"	16	62	40	148	ACK 58 A
G 3/4"	19	62	40	148	ACK 34 A
G 1"	20	62	40	152	ACK 10 A

Easy male thread sealing with PVC-Packing rings type HPD (☒ catalogue page 189)



Blank Ends

Version	b	h	Weight/pc. g	Type No.
without chain	62	40	140	ACKO
with chain	62	40	150	ACKM
chain (spare part)			7	VKM-K



Original Rubber Rings

(☒ catalogue page 189)

MODY-Safety-Hose Couplings with thread-protective ring and new sealing-ring, on both sides led in seal holder.

Hose i.D.	DN	b	h	Weight/pc. g	☒	Type No.
1/2" = 12,5 mm	10	62	92	321	5	ACS 13
3/4" = 20 mm	17	62	92	331	5	ACS 19
1" = 25 mm	19	62	92	356	5	ACS 25

For hose clamps DIN 20039 A, type SL (☒ catalogue page 225)



*On request also available with NPT thread against surcharge

Original Rubber Rings for MODY-Screwing Couplings – Standard Version

(☒ catalogue page 191)

Original Rubber Rings for MODY-Screwing Couplings – Old Version

(☒ catalogue page 191)

Claw Couplings

of forged brass MS 58

- "French System", interchangeable with all claw distance 42 mm types
- Universal couplings of forged brass MS 58
- With oil-resistant rubber ring MK 42 ER
- Turned seal holder, therefore 100 % tight
- For compressed air and water in construction, agriculture and industry

Max. Working Pressure	Temperature	Material	Medium	Claw Distance	Mat. Seal	Thread	
PN 10 bar	-40°C – +95°C	brass MS 58	compressed air	42 mm	Perbunan	ISO 228	10

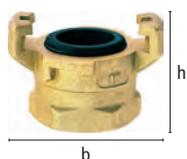
Hose Claw Couplings



Hose i.D.	DN	b	h	Weight/pc. g	Type No.
1/4" = 6 mm	6	57	76	115	MKS 42-6
3/8" = 10 mm	8	57	69	120	MKS 42-10
1/2" = 13 mm	10	57	69	130	MKS 42-13
5/8" = 16 mm	12	57	69	131	MKS 42-15
3/4" = 19 mm	15	57	69	155	MKS 42-19
1" = 25 mm	21	57	69	180	MKS 42-25

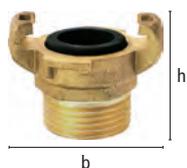
For hose clamps/clips type SL, type HS, ZOS, LPH(© catalogue page 343 – 347)

Female Claw Couplings



Thread	DN	b	h	Weight/pc. g	Type No.
G 1/4"	8	17	57 38	93	MKI 42-14
G 3/8"	12	21	57 33	97	MKI 42-38
G 1/2"	15	26	57 33	101	MKI 42-12
G 3/4"	21	32	57 36	119	MKI 42-34
G 1"	21	39	57 38	124	MKI 42-10
G 1 1/4"	21	47	57 43	166	MKI 42-54

Male Claw Couplings



Thread	DN	b	h	Weight/pc. g	Type No.
G 1/4"	7	17	57 43	104	MKA 42-14
G 3/8"	10	21	57 45	102	MKA 42-38
G 1/2"	14	24	57 42	112	MKA 42-12
G 3/4"	19	30	57 43	135	MKA 42-34
G 1"	21	34	57 43	140	MKA 42-10
G 1 1/4"	21	44	57 46	193	MKA 42-54

Easy male thread sealing with PVC-Packing rings type HPD (© catalogue page 189)

Blank Ends



Version	b	h	Weight/pc. g	Type No.
without chain	57	29	93	MKO 42

Original Rubber Ring



Resistance	Temp. °C	Material	Medium	Colour	Shore A	Øi	Øa	h	Weight/pc. g	Type No.
Oil	-40 – +95	Perbunan	air/water	black	55°	21	34.5	10	5 10	MK 42 ER

Claw Couplings

US-Version with bore for safety-clips

- Robust standard couplings and Mody-Safety-Couplings of malleable iron, US-Version, zinc-plated and yellow passivated (free of chrome VI)
- 100 % couple test and sight control
- with oil-resistant rubber ring GOOR
- cannot be connected with a claw distance of 42 mm!
- To be secured against accidental opening through safety-clips DIN 11024
- **US-universal coupling, widely spread system for compressed air in construction and industry**

Max. Working Pressure	Temperature	Material	Medium	Claw Distance	Mat. Seal	Thread	⊗
PN 10 bar	-40°C – +95°C	malleable iron	compressed air	41 mm	Perbunan	NPT	10

US-Hose Claw Couplings with safety collar

Hose i.D.	DN	b	h	Weight/pc. g	Type No.
3/8" = 10 mm	6	62	75	162	SKA 11*
1/2" = 13 mm	9	62	88	182	SKA 13
3/4" = 19 mm	14	62	105	244	SKA 19
1" = 25 mm	20	62	107	286	SKA 25

For US-hose clamps (© catalogue page 226)

* SKA 11 two parts with thread stem of steel

US-Female Claw Couplings

Thread	DN	b	h	⊕Hexagon	Weight/pc. g	Type No.
3/8"NPT	15	62	57	27	187	KIA 38
1/2"NPT	18	62	57	27	181	KIA 12
3/4"NPT	20	62	57	36	201	KIA 34
1"NPT	20	62	56	42	218	KIA 10

On request also available with thread acc. ISO 228 against surcharge.

US-Male Claw Couplings

Thread	DN	b	h	⊕Hexagon	Weight/pc. g	Type No.
3/8"NPT	9	62	64	29	180	KAA 38
1/2"NPT	12	62	64	29	190	KAA 12
3/4"NPT	17	62	70	34	224	KAA 34
1"NPT	20	62	72	38	260	KAA 10

On request also available with thread acc. ISO 228 against surcharge.

US-Blank End

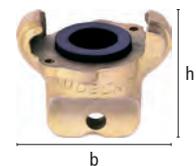
Version	b	h	Weight/pc. g	Type No.
without chain	62	55	215	UDM

Original Rubber Ring

Resistance Temp.°C	Medium	Material	Colour	Shore A	⊘i	⊘a	h	Weight/pc. g	⊗	Type No.	
Oil	-40 / +95	compr. air	Perbunan	black	50 °	20	34	10.5	6	100	GOOR

Universal Safety Clips DIN 11024

Material	Wire ⊘	b	h	Weight/pc. g	⊗	Type No.
Steel zinc-plated	3 mm	63	27	10	50	USC-1



NEW!

MODY-Safety-Screwing Couplings

US-Version with bore for safety-clips



- Recommended instead of expensive and unhandy hosebreak secure systems (whip-check)
- High quality safety coupling, head of malleable iron, hose stem with special profile of turned steel, zinc-plated and yellow passivated (free of chrome VI)
- Stronger thread - protective ring and new rubber ring, on both sides led in seal holder
- With oil resistant rubber ring, on request with steam resistant rubber ring (up to 200°C),
- 100 % tight, reduces expensive air consumption
- Easy to couple, secured against accidental opening, just screw ring after coupling!
- Maximum bore for more flow capacity
- 100 % couple test and sight control
- For absolutely safe air lines in construction and industry
- No coupling with claw distance of 42 mm!

Max. Working Pressure	Temperature	Material	Medium	Claw Distance	Mat. Seal	Thread	⊗
PN 10 bar	-40°C – +95°C	brass MS 58	compressed air	41 mm	Perbunan	ISO 228	10



US-MODY-Safety-Hose Couplings with safety collar

Hose i.D.	DN	b	h	safety collar	Weight/pc. g	⊗	Type No.
3/8" = 10 mm	6,5	62	111	21	320	5	SSC 10
1/2" = 13 mm	10	62	118	24	360	5	SSC 13
3/4" = 19 mm	15	62	120	34	385	5	SSC 19
1" = 25 mm	18	62	120	39	420	5	SSC 25

For US-hose clamps (⊗ catalogue page 226)

US-MODY-Safety Female Couplings



Thread	DN	b	h	Weight/pc. g	Type No.
G 3/8" = 10 mm	13	62	64	252	SSCI 38
G 1/2" = 13 mm	17	62	65	325	SSCI 12
G 3/4" = 19 mm	17	62	92	420	SSCI 34

US-MODY-Safety Male Couplings



Thread	DN	b	h	Weight/pc. g	Type No.
G 3/8" = 10 mm	10	62	72	320	SSCA 38
G 1/2" = 13 mm	13	62	74	320	SSCA 12
G 3/4" = 19 mm	17	62	75	320	SSCA 34

Original MODY-Rubber Rings – Standard Version



Resistance	Temp. °C	Material	Medium	Colour	Shore A	Øi	Øa	h	Weight/pc. g	⊗	Type No.
Oil	Perbunan	-40 – +95	compr. air	black	75°	21	30	4	1.7	50	SGOR-N
Steam	TFEP	-40 – +200	steam	red	65°	21	30	4	1.7	10	SDOR-N





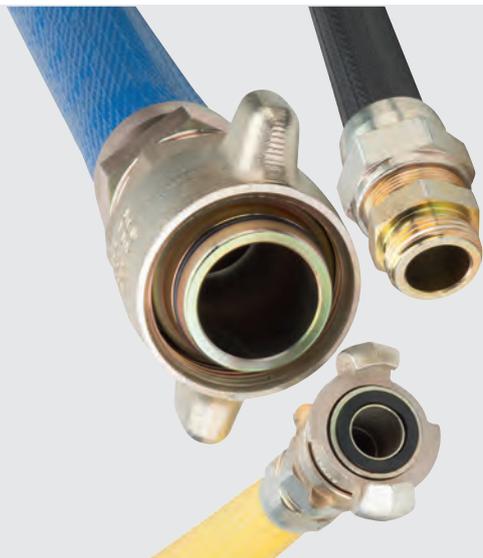
Complete Screwing Sets, FlatLock Flat Hose Screwings, Connecting Nipples, Hose Connections

A strong connection



Complete Screwing Sets:

Complete Screwing Sets are extremely robust fittings for construction, tunneling and mining. 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 sealing material. Flat sealed versions should not be combined with tapered versions, to be combined with "Atlas Copco" system.



FlatLock Flat Hose Screwings:

While using the FlatLock crimping system, we guarantee you the best possible option to assemble a flat hose to the FlatLock fitting. FlatLock offers best and easy hose assembly for thin walled flat hoses, which can be repeatedly used.

This hose connection is available for the following coupling systems:

- Mody-Safety-Claw Couplings DIN 3238
- Female und male thread screwings
- Complete Screwing Sets DIN 2003
- Flat-Sealing Screwing Sets type "Atlas Copco"



Thread stems and hose connections

Thread stems and hose connections serve in various fields for connection or lengthening of hose lines.

Complete Screwing Sets

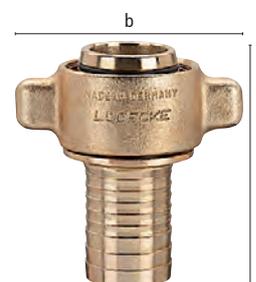
DIN 8537/20 033 with hose stem

- Complete Screwing Sets of malleable iron / steel, 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 fit of the hose
- Tapered stems with cone 1:3 generally with additional O-ring sealing
- Suitable for connecting nipples (© catalogue page 208 / 209)
- World-wide used system for compressed air, water... in construction, mining or tunneling.

Max. Working Pressure	Temperature	Material	Medium	Norm	Thread	Cone
PN 16 / 25 bar	- 40°C – + 95°C	malleable iron / steel	compressed air / water	DIN 8537 / 20 033	ISO 228 / DIN 405	1:3 or 1:4

Complete Screwing Sets with safety collar

Hose i.D.	Thread	Cone	DN	Ø Safety collar	b	h	Weight/pc. g	⊠	Type No.
3/8" = 10 mm	G 3/4"	1:4	7.5	21	58	70	169	10	34/10 S
1/2" = 13 mm	G 3/4"	1:4	10	21	58	79	166	10	34/13 S
5/8" = 15 mm	G 3/4"	1:4	12	26	58	79	175	10	34/15 S
3/4" = 19 mm	G 3/4"	1:4	13	33	58	80	200	10	34/19 S
3/8" = 10 mm	G 1"	1:3	7.5	21	65	83	218	10	10/10 S
1/2" = 13 mm	G 1"	1:3	10	22	65	85	207	10	10/13 S
5/8" = 15 mm	G 1"	1:3	12	26	65	85	218	10	10/15 S
3/4" = 19 mm	G 1"	1:3	15	33	65	85	244	10	10/19 S
1" = 25 mm	G 1"	1:3	16	38	65	90	290	10	10/25 S
3/8" = 10 mm	Rd 32 x 1/8"	1:3	7.5	21	65	90	221	10	32/10 S
1/2" = 13 mm	Rd 32 x 1/8"	1:3	10	22	65	83	249	10	32/13 S
5/8" = 15 mm	Rd 32 x 1/8"	1:3	12	26	65	85	229	10	32/15 S
3/4" = 19 mm	Rd 32 x 1/8"	1:3	15	33	65	85	251	10	32/19 S
1" = 25 mm	Rd 32 x 1/8"	1:3	16	38	65	90	310	10	32/25 S
1" = 25 mm	Rd 38 x 1/8"	1:3	19	38	76	98	426	5	38/25 S
1 1/4" = 32 mm	Rd 46 x 1/6"	1:3	25	50	86	124	685	1	46/32 S
1 3/8" = 35 mm	Rd 55 x 1/6"	1:3	30	55	95	131	829	1	55/35 S
1 1/2" = 38 mm	Rd 55 x 1/6"	1:3	31	55	95	131	864	1	55/38 S
1 5/8" = 42 mm	Rd 62 x 1/6"	1:3	35	63	105	139	1216	1	62/42 S
1 1/2" = 38 mm	Rd 75 x 1/6"	1:3	31	55	137	140	1420	1	75/38 S
2" = 50 mm	Rd 75 x 1/6"	1:3	45	77	137	149	1725	1	75/50 S
2" = 53 mm	Rd 75 x 1/6"	1:3	45	77	137	149	1848	1	75/53 S
3" = 75 mm	Rd 105 x 1/4"	1:3	67	110	158	206	3974	1	105/75 S



For hose clamps DIN 20039 B, type SK (© catalogue page 225)

For higher temperatures we recommend steam screwings DIN EN 14 423 (© catalogue page 316)

FlatLock Flat Hose Screwings (© catalogue page 206)

We produce flat hose fittings according to hose samples/dimensions with assembly recommendation for hydraulic crimping with crimping ferrules, safety clamps, wire or steel band. Various types on stock!



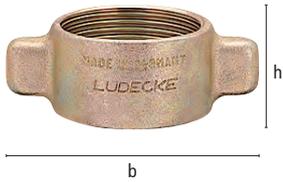
Connecting Nuts and Tapered Stems

DIN 8537/20 033

- Screwings with cone of malleable iron / steel, zinc-plated and yellow passivated (free of chrome VI), consisting of connecting nut and tapered stem
- Turned stem profile for perfect fit of the hose
- Tapered stems with cone 1:3 generally with additional O-ring sealing
- Suitable for connecting nipples (© catalogue page 208 / 209)
- **World-wide used system for compressed air, water... in construction, mining or tunneling.**

Connecting Nuts of malleable iron corresponding to →

Thread	Bore	b	h	Weight/pc. g		Type No.	Euro
G 3/4"	21.5	58	23	92	10	UM 34	
G 3/4"							
G 3/4"							
G 3/4"							
G 1"	23	65	28	133	10	UM 10	
G 1"							
G 1"							
G 1"							
G 1"							
Rd 32 x 1/8"	23	65	28	139	10	UM 32	
Rd 32 x 1/8"							
Rd 32 x 1/8"							
Rd 32 x 1/8"							
Rd 32 x 1/8"							
Rd 32 x 1/8"							
Rd 32 x 1/8"	27.5	65	28	129	10	UM 32/2	
G1"	27.5	65	28	124	10	UM 10/2	
Rd 38 x 1/8"	29	76	33	234	10	UM 38	
Rd 46 x 1/6"	35	86	36	301	1	UM 46	
Rd 55 x 1/6"	42	95	38	378	1	UM 55	
Rd 55 x 1/6"							
Rd 62 x 1/6"	49	105	44	555	1	UM 62	
Rd 75 x 1/6"	61	137	50	797	1	UM 75	
Rd 75 x 1/6"							
Rd 105 x 1/4"		158	60	1545	1	UM 105	



tapered stems of steel

Hose i.D.	Cone	b	h	Weight/pc. g	☒	Type No.
3/8" = 10 mm	1:4	24	70	67	10	T 10 B
1/2" = 13 mm	1:4	24	79	74	10	T 13 B
5/8" = 15 mm	1:4	24	79	72	10	T 15 B
3/4" = 19 mm	1:4	24	80	94	10	T 19 B
3/4" = 19 mm	1:3	28	80	105	10	ST 19 B-PH*
3/8" = 10 mm	1:3	28	78	85	10	ST 10 B
1/2" = 13 mm	1:3	28	80	104	10	ST 13 B
5/8" = 15 mm	1:3	28	80	83	10	ST 15 B
3/4" = 19 mm	1:3	28	80	100	10	ST 19 B
3/4" = 19 mm	1:3	28	80	105	10	ST 19 B-PH*
3/8" = 10 mm	1:3	28	78	85	10	ST 10 B
1/2" = 13 mm	1:3	28	80	104	10	ST 13 B
5/8" = 15 mm	1:3	28	80	83	10	ST 15 B
3/4" = 19 mm	1:3	28	80	100	10	ST 19 B
3/4" = 19 mm	1:3	28	80	109	10	ST 19 B-PH*
1" = 25 mm	1:3	29	85	163	10	ST 25 B/3
1" = 25 mm	1:3	30	85	148	10	ST 25 B/2
1" = 25 mm	1:3	33	90	164	10	ST 25 B
1" = 25 mm	1:3	33	88.5	200	10	ST 25 B-PH*
1 1/4" = 32 mm	1:3	40	120	355	1	ST 32 B
1 3/8" = 35 mm	1:3	48	125	390	1	ST 35 B
1 1/2" = 38 mm	1:3	48	125	465	1	ST 38 B
1 1/2" = 38mm	1:3	48	110	420	1	ST 38 B-PH*
1 5/8" = 42 mm	1:3	57	130	558	1	ST 42 B
2" = 50 mm	1:3	68	140	896	1	ST 50 B
2" = 50 mm	1:3	68	117	724	1	ST 50 B-PH*
2" = 53 mm	1:3	68	140	947	1	ST 53 B
3" = 75 mm	1:3	98	189	1990	1	ST 75 B

For hose clamps DIN 20039 A, type SL (☒ catalogue page 225)

 *ST 19 B-PH for hydraulic crimping with socket PH-19 (☒ catalogue page 219)
 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 for the direct connection of thread to machine/tool
- Tapered nipple with cone 1:3 generally with additional O-ring sealing
- World-wide used system for compressed air in construction, mining and tunnelling

Max. Working Pressure	Temperature	Material	Medium	Norm	Thread	Cone	⊗
PN 16 / 25 bar	- 40°C – + 95°C	steel / malleable iron	compressed air	DIN 20 033	ISO 228 / DIN 405	1:3	1

Complete Screwing Sets with male thread



Male thread	Female thread	Cone	DN	⊞Hexagon	b	h	Weight/pc. g	Type No.
connecting nut								
G 1 1/4"	Rd 55 x 1/6"	1:3	32	50	95	87	890	55/54 A
G 2"	Rd 75 x 1/6"	1:3	45	65	137	115	1850	75/20 A

Other dimensions on request.

Screw Caps for Complete Screwing Sets DIN 20 033

Thread	Cone	h	⊞Hexagon	Weight/pc. g	⊞	Type No.
Rd 75 x 1/6"	1:3	65	75	850	5	VS 75

With hexagon to facilitate the assembly.

Other dimensions on request.

Male thread stems with cone



Hose i.D.	Thread	Cone	DN	h	⊞Hex.	Stem l.	Weight/pc. g	⊞	Type No.
1/2" = 13 mm	Rd 32 x 1/8"	1:3	10	75	32	41	150	10	G 32-13 T
5/8" = 16 mm	Rd 32 x 1/8"	1:3	13	75	32	41	154	10	G 32-16 T
3/4" = 19 mm	Rd 32 x 1/8"	1:3	15	75	32	41	156	10	G 32-19 T
1" = 25 mm	Rd 32 x 1/8"	1:3	20	75	32	41	168	10	G 32-25 T
1" = 25 mm	Rd 38 x 1/8"	1:3	20	75	41	41	210	10	G 38-25 T
1 1/2" = 38 mm	Rd 55 x 1/6"	1:3	33	95	55	50	800	1	G 55-38 T*
2" = 50 mm	Rd 75 x 1/6"	1:3	45	117	75	65	1120	1	G 75-50 T*
2" = 53 mm	Rd 75 x 1/6"	1:3	47	117	75	65	1140	1	G 75-53 T*

Suitable for Complete Screwing Sets.

For hose clamps DIN 20039 A, type SL (⊗ catalogue page 225)

Further dimensions on request.

*with safety collar, other types without safety collar

Complete Screwing Sets

flat sealing. Compatible to 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
- Complete Screwing Sets with turned stem profile for perfect fit of the hose
- Further hose assembly methods, for example with crimping ferrules or safety clamps, and also other dimensions on request
- Popular screwing system for compressed air in mining and tunnelling
- Interchangeable with Screwing System type "Atlas Copco"

Max. Working Pressure	Temperature	Material	Medium	Thread	
PN 16 / 25 bar	- 40°C – + 95°C	malleable iron/steel	compressed air	DIN 405	1

Complete Screwing Sets flat sealing

Hose i.D.	Thread	DN	h	b	Weight/pc. g	Type No.
2" = 50 mm	RD 65 x 1/6"	45	166	105	1300	65/50 FL
2" = 53 mm	RD 65 x 1/6"	47	166	105	1320	65/53 FL

For hose clamps DIN 20 039 A, type SL (☺ catalogue page 225)

Single Connecting Nuts

Thread	Bore	h	b	Weight/pc. g	Type No.
Rd 65 x 1/6"	56.5	36	105	555	UM 65

Single Hose stems, flat sealing

Hose i.D.	DN	h	Weight/pc. g	Type No.
2" = 50 mm	45	166	745	FT 50 L
2" = 53 mm	48	166	765	FT 53 L

For hose clamps DIN 20 039 A, type SL (☺ catalogue page 225)

Rubber rings for flat sealing hose stems

Resistance	Temp. °C	Medium	Material	Shore h. A	∅A	Weight/pc. g	Type No.
Oil	-40°C - +95°C	compressed air	Perbunan	65 °	54.5	2	ED 50 L



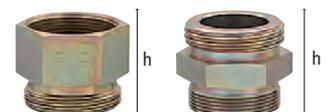
Double Nipples flat sealing

- Nipples made of steel, zinc-plated and yellow passivated (free of chrome VI)
- Suitable for flat sealing Complete Screwings(☺ above)
- For the direct connection of fitting to machine/tool for compressed air in mining and tunnelling

Max. Working Pressure	Temperature	Material	Medium	Thread	
PN 25 bar	- 40°C – + 95°C	steel	compressed air	ISO 228 / DIN 405	1

Double nipples, flat sealing, with AG/AG od rather AG/IG

Inlet thread	outlet thread	∅Hexagon	h	Weight/pc. g	Type No.
G 1 1/4" male	RD 65 x 1/6" male	65	58	665	N 6554 A
G 1 1/2" male	RD 65 x 1/6" male	65	58	675	N 6515 A
G 2" male	RD 65 x 1/6" male	65	58	680	N 6520 A
G 2" female	RD 65 x 1/6" male	65	55	650	N 6520 I
RD 75 x 1/6" male	RD 65 x 1/6" male	75	77	1192	N 6575 A



NEW!

Flat Hose Fittings



- Applicable for compressed air in construction, tunnelling and mining

- Many safety couplings, thread and complete screwings with squeeze ring and thread ferrule for an absolutely safe connection of flat hoses for compressed air 3/4" to 2"
- The exact 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!



Max. working pressure	Temperature	Thread	Medium	Material	Norm	
PN 16/25 bar	-40°/+100° C	ISO 228/DIN 405	compressed air	steel/mall.iron/MS58	DIN 3238/20033	5/1

FlatLock Squeeze Ring Screwing with male thread connection

Hose i.D.		Thread		⊘Ferrule	⊘Hex.	DN	h	⊘	Weight/pc. g	Type No.
19 mm	G 3/4"	32	32	17	65	5	205	G 34-19...FLTQ		
25 mm	G 1"	41	36	22	65	5	290	G 10-25...FLTQ		

FlatLock Squeeze Ring Screwing with female thread connection

Hose i.D.		Thread		⊘Ferrule	⊘Hex.	DN	h	⊘	Weight/pc. g	Type No.
19 mm	G 3/4"	32	32	17	60	5	195	GI 34-19...FLTQ		
25 mm	G 1"	41	36	22	61	5	265	GI 10-25...FLTQ		

FlatLock Squeeze Ring Screwing with MODY-safety claw coupling DIN 3238

Hose i.D.		DN	b	h	⊘Ferrule	⊘	Weight/pc. g	Type No.
19 mm	17	63	118	32	5	550	SSG 19...FLTQ	
25 mm	17	63	129	41	5	630	SSG 25...FLTQ	

FlatLock Squeeze Ring Screwing with complete screwing Set DIN 20033

Hose i.D.		Thread		Cone	DN	⊘Ferrule	h	b	⊘	Weight/pc. g	Type No.
38 mm	RD 55 x 1/6"	1:3	31	55	150	95	1	1500	55/38...FLTQ		
50 mm	RD 75 x 1/6"	1:3	45	65	200	137	1	3030	75/50...FLTQ		
53 mm	RD 75 x 1/6"	1:3	45	75	200	137	1	3030	75/53...FLTQ		

Adaptable with conical nipples(☺ catalogue page 208 / 209)

FlatLock Squeeze Ring Screwing with Complete Screwing Set, flat-sealing (type „Atlas Copco“)

Hose i.D.		Thread		DN	⊘Ferrule	h	b	⊘	Weight/pc. g	Type No.
50 mm	RD 65 x 1/6"	45	65	200	105	1	2500	65/50...FLTQ		
53 mm	RD 65 x 1/6"	47	75	200	105	1	2400	65/53...FLTQ		

Adaptable with double nipples(☺ catalogue page 205)

Further fittings and hose dimensions on request.



This hose connection is available for the following coupling systems:

- Mody-Safety-Claw Couplings DIN 3238
- Female und male thread Screwings
- Complete Screwing Sets DIN 20 033
- Flat-Sealing Screwing Sets type „Atlas Copco“



Attention:

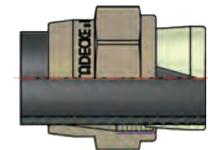
- Before use, the inner diameter as well as the wall thickness of the flat hose always have to be adapted in order to guarantee the exact and safe fit of the connection. A size table is available on demand.

Hose connection manual:

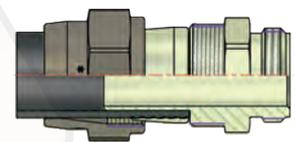
Move the squeeze nut approximately 10 cm over the hose. The phase with the **LUDECKE** logo must be ahead.



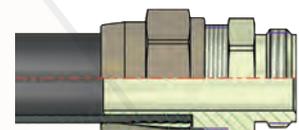
Also move the slotted squeeze ring with the cone ahead over the hose which must be cut to straight length. Make sure that the edge of the ring (labelled with the corresponding hose dimension) is flush with the hose's end.



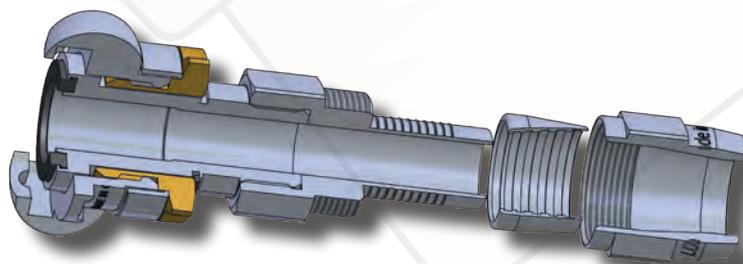
Push the fitting with the stem ahead into the hose until the connection thread matches the hose and squeeze ring end. The correct hose fit can be controlled at the squeeze ring slot.



Pull the squeeze nut over the squeeze ring and the hose stem, then screw the squeeze nut manually two turns into the threaded joint.



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 and is unlockable and reusable at any time.

Connecting Nipples with cone

- Nipples of steel, zinc-plated and yellow passivated (free of chrome VI)
- Suitable for screwings (☉ catalogue page 204 – 206) DIN 8537/20033
- Worldwide used system for compressed air, water... in construction, mining and tunneling



Max. Working Pressure	Material	Medium	Norm	Thread	Cone
PN 25 bar	steel	compressed air / water	☉ below	ISO 228 / DIN 405	1:3 or 1:4

Double Nipples DIN 8537/20 036

Male Thread	Cone	Hexagon	h	Weight/pc. g	Weight/pc. g	Type No.
2 x G 3/4"	2 x 1:4	27	47	107	10	V 34 N
2 x G 3/4"	2 x 1:4	32	47	125	10	V 34-32 N
2 x G 1"	2 x 1:3	36	55	197	10	V 10 N
2 x Rd 32 x 1/8"	2 x 1:3	32	55	163	10	V 32 N
2 x Rd 38 x 1/8"	2 x 1:3	41	62	283	10	V 38 N
2 x Rd 46 x 1/6"	2 x 1:3	46	70	410	1	V 46 N
2 x Rd 55 x 1/6"	2 x 1:3	55	78	648	1	V 55 N
2 x Rd 62 x 1/6"	2 x 1:3	65	88	869	1	V 62 N
2 x Rd 75 x 1/6"	2 x 1:3	75	100	1490	1	V 75 N
2 x Rd 105 x 1/4"	2 x 1:3	105	122	2990	1	V 105 N



Sieve Nipples DIN 20 037

Inlet thread	Sieve	Outlet thread	with Cone	Hexagon	h	Weight/pc. g	Weight/pc. g	Type No.
G 3/8"	inner	G 3/4"	1:4	27	38	84	10	N 38 IS
G 1/2"	inner	G 3/4"	1:4	27	40	85	10	N 23 IS
G 1/2"	inner	Rd 32 x 1/8"	1:3	32	44	126	10	N 82 IS
G 3/4"	inner	G 3/4"	1:4	27	44	104	10	N 34 IS
G 3/4"	inner	G 3/4"	1:4	32	44	120	10	N 34-32 IS
G 3/4"	inner	Rd 32 x 1/8"	1:3	32	48	135	10	N 32 IS
G 3/4"	inner	G 1"	1:3	36	48	173	10	N 341 IS
G 3/4"	outer	G 3/4"	1:4	27	44	100	10	N 34 AS
G 3/4"	outer	G 3/4"	1:4	32	44	120	10	N 34-32 AS
G 3/4"	outer	Rd 32 x 1/8"	1:3	32	48	130	10	N 32 AS
G 3/4"	without	Rd 32 x 1/8"	1:3	32	48	142	10	N 32 OS
G 1"	inner	Rd 32 x 1/8"	1:3	36	49	193	10	N 132 IS
G 1"	without	Rd 38 x 1/8"	1:3	41	54	252	10	N 18 OS
G 1"	without	Rd 46 x 1/6"	1:3	46	58	345	1	N 46-10 OS
G 1 1/4"	without	Rd 46 x 1/6"	1:3	46	58	331	1	N 46-54 OS
G 1 1/2"	without	Rd 46 x 1/6"	1:3	50	63	445	1	N 46 OS
G 1 1/4"	without	Rd 55 x 1/6"	1:3	55	63	536	1	N 55-54 OS
G 1 1/2"	without	Rd 55 x 1/6"	1:3	55	68	529	1	N 55 OS
G 2"	without	Rd 55 x 1/6"	1:3	65	70	860	1	N 55-20 OS
G 1 1/2"	without	Rd 62 x 1/6"	1:3	65	75	764	1	N 62 OS
G 2"	without	Rd 62 x 1/6"	1:3	65	75	820	1	N 62-20 OS
G 1 1/2"	without	Rd 75 x 1/6"	1:3	75	80	1220	1	N 75-15 OS
G 2"	without	Rd 75 x 1/6"	1:3	75	85	1196	1	N 75 OS
G 2 1/2"	without	Rd 75 x 1/6"	1:3	75	85	1387	1	N 75-25 OS
G 3"	without	Rd 105 x 1/4"	1:3	105	100	2290	1	N 105 OS



Connecting Nipples

Female thread	Male thread	with Cone	Hexagon	h	Weight/pc. g	Weight/pc. g	Type No.
G 3/4"	G 3/4"	1:4	32	44	126	10	A 34 N
G 3/4"	G 1"	1:3	36	48	200	10	A 3410 N
G 3/4"	Rd 32 x 1/8"	1:3	32	47	136	10	A 32 N
G 3/4"	Rd 38 x 1/8"	1:3	41	48	270	10	A 38 N
G 1"	Rd 32 x 1/8"	1:3	41	50	206	10	A 1032 N
G 1"	Rd 38 x 1/8"	1:3	41	52	239	10	A 10 N

Connecting Nipples with cone

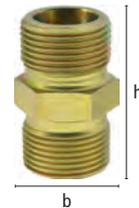
Self-locking Nipple with brass valve

Connecting thread	Thread to hose with Cone	Hexagon	h	Weight/pc. g	Type No.
G 3/4"	Rd 32 x 1/8" 1:3	32	49	153	10 SN 32 ST



Combination Nipple

Thread with Cone	Thread with Cone	Hexagon	h	Weight/pc. g	Type No.
G 1" 1:3	G 3/4" 1:4	36	51	179	10 V 1034 N



Hot Tar Screwing

- Hot tar screwing of steel/malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- Easy to screw through wing nut; tapered Stem with safety collar
- For hose connection on hot tar spraying devices, hot tar lances a.o.

Max. Working Pressure	Material	Medium	Thread	Cone	⊠
PN 25 bar	malleable iron / steel	hot tar	ISO 228	1:3	1

Hot Tar Screwing

Type	Connection	DN	Weight/pc. g	Type No.
Hot Tar Screwing Complete	Hose i.D. 3/4" = 19 mm x G 3/4" female	15	506	HTV-SB
Tapered stem	Hose i.D. 3/4" = 19 mm, Cone 1:3	15	200	HTVT-SB
Wing Nut	G 1 1/4" female	-	207	HTVM
Nipple	G 3/4" female x G 1 1/4" male, Cone 1:3	-	99	HTVET



For hose clamps DIN 20039 B, type SK 34 (© catalogue page 225)
Other sizes on request.

Thread Stems

- Thread stems of steel, zinc-plated and yellow passivated (free of chrome VI)
- Turned stem profile for perfect fit of the hose
- Maximum bore for maximum flow capacity
- Suitable for compressed air and other fluids in construction, industry or plant engineering.

Max. Working Pressure	Material	Medium	Thread
PN 16 / 25 bar	steel	compressed air, a.o.	ISO 228 / DIN 405

Male thread stems without safety collar



Hose i.D.	Thread	DN	h	Hexagon	Stem Length	Thread Length	Weight/pc. g	Type No.
3/8" = 9 mm	G 1/4"	6	44	14	28	9	22	G 14-9 T
3/8" = 10 mm	G 3/8"	7	45	19	28	10	31	G 38-10 T
1/2" = 13 mm	G 1/4"	8.5	44	17	28	9	35	G 14-13 T
1/2" = 13 mm	G 3/8"	10	45	19	28	10	35	G 38-13 T
1/2" = 13 mm	G 1/2"	10	65	22	41	15	60	G 12-13 T
1/2" = 13 mm	G 3/4"	10	65	27	41	16	85	G 34-13 T
5/8" = 15 mm	G 3/8"	10	48	22	41	10	45	G 38-15 T
5/8" = 15 mm	G 1/2"	12	65	22	41	15	62	G 12-15 T
5/8" = 15 mm	G 3/4"	12	65	27	41	16	92	G 34-15 T
3/4" = 19 mm	G 1/2"	14	65	22	41	15	82	G 12-19 T
3/4" = 19 mm	G 3/4"	15	65	27	41	16	99	G 34-19 T
1" = 25 mm	G 3/4"	19	65	27	39	16	118	G 34-25 T

For hose clamps DIN 20039 A, type SL (© catalogue page 225)

Male thread stems with safety collar



Hose i.D.	Thread	DN	h	Hexag.	Stem Length	Thread Length	Safety collar	Weight/pc. g	Type No.
1/2" = 13 mm	G 1/2"	10	73	22	40	15	22	75	G 12-13 TB
3/4" = 19 mm	G 3/4"	15	72	32	40	15	32	142	G 34-19 TB
3/4" = 19 mm	G 1"	15	74	36	40	17	32	175	G 10-19 T
1" = 25 mm	G 1"	20	80	36	41	17	36	220	G 10-25 T
1" = 25 mm	G 1 1/4"	20	90	46	48	18	39	321	G 54-25 T
1 1/4" = 32 mm	G 1 1/4"	25	92	46	48	20	45	406	G 54-32 T
1 1/2" = 38 mm	G 1 1/2"	33	100	55	51	22	53	532	G 15-38 T
1 5/8" = 42 mm	G 1 1/2"	35	100	55	51	22	54	571	G 15-42 T
2" = 50 mm	G 2"	42	125	65	72	25	64	943	G 20-50 T
2" = 53 mm	G 2"	44	125	75	72	25	74	1123	G 20-53 T
3" = 75 mm	G 3"	68	185	90	120	30	95	2033	G 30-75 T

For hose clamps DIN 20039 B, type SK (© catalogue page 225)

Female thread stems with safety collar



Hose i.D.	Thread	DN	h	Hexag.	Stem Length	Thread Length	Safety collar	Weight/pc. g	Type No.
3/4" = 19 mm	G 3/4"	15	71	32	40	19	32	134	G 34-19 TI
3/4" = 19 mm	G 1"	15	73	41	40	20	32	197	G 10-19 TI
1" = 25 mm	G 1"	20	75	41	41	20	36	227	G 10-25 TI
1" = 25 mm	G 1 1/4"	20	80	50	41	23	36	323	G 54-25 TI
1 1/4" = 32 mm	G 1 1/4"	25	86	50	48	23	45	390	G 54-32 TI

For hose clamps DIN 20039 B, type SK (© catalogue page 225)

Hose Connections | Thread Ferrule Screwings

- Hose menders of steel, zinc-plated and yellow passivated (free of chrome VI)
- Simple and safe hose connection with turned stem profile
- Male thread nipples with thread ferrule reusable!
- Maximum bore for maximum flow capacity
- Suitable for compressed air and other fluids in various fields

Max. Working Pressure	Material	Medium	Norm
PN 16 / 25 bar	steel	compressed air a.o.	☉ below

Hose Menders DIN 20038 without safety collar

Hose i.D.	DN	h	b	Weight/pc. g	☉	Type No.
3/8" = 10 mm	8	75	11	25	10	SV 10 R
1/2" = 13 mm	9	80	13.5	44	10	SV 13 R
5/8" = 15 mm	12.5	105	17	73	10	SV 15 R
3/4" = 19 mm	16	105	21	93	10	SV 19 R
1" = 25 mm	22	160	26.5	166	10	SV 25 R
1 1/4" = 32 mm	27	175	33.5	351	5	SV 32 R
1 1/2" = 38 mm	33	215	40	430	5	SV 38 R
2" = 50 mm	45	225	51	670	1	SV 50 R
2" = 53 mm	46	225	54	960	1	SV 53 R

For hose clamps DIN 20039 A, type SL (☉ catalogue page 225)



Hose Menders DIN 20038 with safety collar

Hose i.D.	DN	h	b	☉ Safety collar	Weight/pc. g	☉	Type No.
1/2" = 13 mm	9	80	13.5	25	48	10	SV 13 R/S
5/8" = 15 mm	12.5	105	17	30	77	10	SV 15 R/S
3/4" = 19 mm	16	105	21	34	107	10	SV 19 R/S
1" = 25 mm	22	160	26.5	42	170	10	SV 25 R/S
1 1/4" = 32 mm	27	175	33.5	50	382	5	SV 32 R/S
1 1/2" = 38 mm	33	215	40	56	490	5	SV 38 R/S
2" = 50 mm	45	225	51	78	870	1	SV 50 R/S
2" = 53 mm	46	225	54	78	1126	1	SV 53 R/S
3" = 75 mm	68	250	76	110	1811	1	SV 75 R/S

For hose clamps DIN 20039 B, type SK (☉ catalogue page 225)



Male thread nipples with thread ferrule (according to DIN EN 14424)

For Hose	Thread	DN	h	Stem		Thread		Weight/pc. g	☉	Type No.
				Hexagon	Length	Length	Weight/pc. g			
1/2" = 13 x 3	G 1/2"	11	50	22	27	12	102	10	G 12-133 TQ	
1/2" = 13 x 5	G 1/2"	11	50	22	27	12	104	10	G 12-135 TQ	
5/8" = 15 x 5	G 3/4"	13	52	27	30	13	140	10	G 34-155 TQ	
3/4" = 19 x 5	G 3/4"	17	52	27	30	13	170	10	G 34-195 TQ	
3/4" = 19 x 6	G 3/4"	17	52	27	30	13	180	10	G 34-196 TQ	
1" = 25 x 5	G 1"	22	58	36	36	14	220	10	G 10-255 TQ	
1" = 25 x 7	G 1"	22	58	36	36	14	230	10	G 10-257 TQ	

Assembly instructions for thread ferrules (☉ catalogue page 359)

Other sizes on request.





Mortar couplings and plugs



Our coupling systems are specially designed for the applications; mortar, plaster or floor screeding, pumps, sprayer or plastering machines. They guarantee an optimum working safety and maximum flow of the material from your machine.

Mortar couplings are cam armed couplings. Not interchangeable with the standard Kamlok couplings. Function: Asymmetrical female and male parts made of malleable iron or steel are locked by two handles. Please note two different systems are used in the market (22 and 23.5 mm in size).

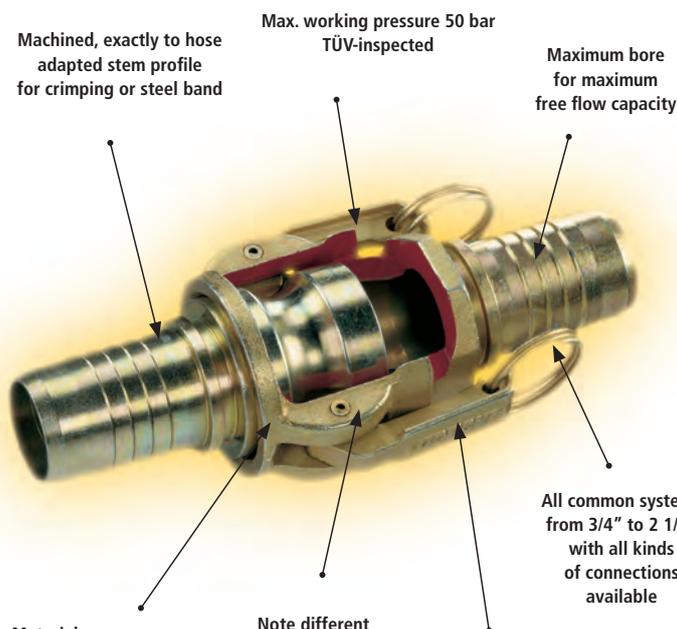
With a working pressure of max 50 bar, a precise assembly on the hose barb is necessary. We recommend to use at least on one connecting point a swivel version. Such an assembly offers longer duration vs a ridged standard installation / assembly.

Construction **LUDECKE** Mortar coupling

Machined, exactly to hose adapted stem profile for crimping or steel band

Max. working pressure 50 bar
TÜV-inspected

Maximum bore for maximum free flow capacity



All common systems from 3/4" to 2 1/2" with all kinds of connections available

Note different dimensional systems 22 and 23.5

Robust malleable iron handles with pin and ring

Material: Malleable iron or steel, surface zinc-plated and yellow passivated (free of chrome VI)



Mortar Couplings of Aluminium

Type Size X25, rigid and swivelling

- Mainly used directly at the spraying nozzle, 60 % weight reduction compared with steel Version, therefore essentially easier application
- Swivelling Version three parts, lead in teflon slide, therefore extremely robust and tight
- Swivelling concept avoids hose twist of the rigid mortar hoses for much easier application
- Couplings with female thread, optionally rigid or swivelling



Max. Working Pressure	Material	Medium	Mat. Seal	Thread	System	
PN 40 bar	Aluminium	mortar / Concrete	Perbunan/Teflon	ISO 228	X25 (22)	1

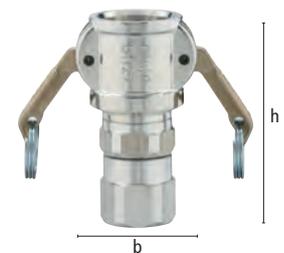
Coupling with female thread



Thread	b	h	System	Type-Size	Ident-Size	Weight/pc. g	Type No.
G 1"	70	72	rigid	X25	42	290	MIG 10-X25 A
G 1"	70	120	swivelling	X25	42	405	MIG 10-X25 ADR

*Rubber rings Type No. MDR-X25 and handles Type No. MNH-630 (© catalogue page 215)

*Female thread sealing ring material polyurethane



Mortar Couplings interchangeable with system "Mai"

Max. Working Pressure	Material	Medium	Mat. Seal	Threads	
PN 50 bar	mall. iron / steel	mortar / concrete	Perbunan	ISO 228	1

Coupling with female thread and 1 handle

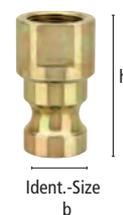
Thread	h	b	Ident-Size	Weight/pc. g	Type No.
G 1"	70	55	38	375	MIG 10-MA

Rubber rings, type no. EDR-100-BU (© catalogue page 72)

Plug with female thread

Thread	h	b	Ident-Size	Weight/pc. g	Type No.
G 1"	80	46	37.5	405	VIG 10-MA

For hose connection use screwing stems for steel band (© catalogue page 217) or crimping Ferrules (© catalogue page 219)



Standard-Mortar Couplings

of malleable iron / steel, rigid and swivelling



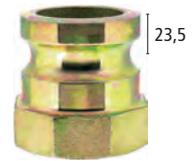
- Swivelling Version three parts, lead in teflon slide, extremely robust and tight
- Avoids hose twist of the rigid mortar hoses for much easier application



- Couplings of malleable iron / steel, zinc-plated and yellow passivated (free of chrome VI)
- Turned stem profile for perfect fit of the hose (On request according to drawing or hose sample)
- TÜV-inspected
- Attention: Only same type-size and same system interchangeable!
- For mortar and concrete lines on pumps, spraying-devices, plastering machines a.o.
- Other swivelling types on request!



System 22
(for all type-sizes)



System 23.5
(only type-sizes 35 and 50!)

Max. Working Pressure	Material	Medium	Mat. Seal	Threads	TÜV-Inspected	
PN 50 bar	malleable iron / steel	mortar / concrete	Perbunan	ISO 228	all types	1

Couplings with hose stem (full passage)

Hose i.D.	b	h	Type-Size	Ident.-Size	Weight/pc. g	Type No.	Type No.
25 mm	55	120	25	35.5	477	MST 25**	same dimension
25 mm	74	138	X25	42	778	MST-X25	same dimension
35 mm	77	132	35	51	795	MST 35	MST 35-N
35 mm	77	152	35	51	970	MST 35-DR	MST 35-N-DR
38 mm	77	146	35	51	903	MST 38/35	MST 38/35-N
42 mm	84	144	42	54	960	MST 42	same dimension
50 mm	94	140	50	64	1195	MST 50	MST 50-N
65 mm	105	185	65	74	2172	MST 65*	same dimension

Couplings with hose stem (reduced passage)

Hose i.D.	b	h	Type-Size	Ident.-Size	Weight/pc. g	Type No.	Type No.
19 mm	55	122	25	35.5	512	MST 25/19 R**	same dimension
19 mm	74	125	X25	42	760	MST-X25/19 R	same dimension
25 mm	77	138	35	51	783	MST 35/25 R	MST 35/25 R-N
35 mm	94	160	50	64	1495	MST 50/35 R	MST 50/35 R-N
42 mm	94	160	50	64	1510	MST 50/42 R	MST 50/42 R-N

Couplings with female thread

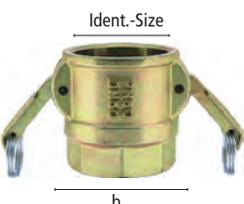
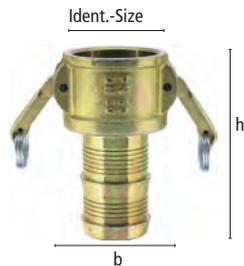
Thread	b	h	Type-Size	Ident.-Size	Weight/pc. g	Type No.	Type No.
G 1"	55	70	25	35.5	410	MIG 10/25**	same dimension
G 1"	74	73.5	X25	42	652	MIG 10-X25	same dimension
G 1"	77	74	35	51	770	MIG 10/35	MIG 10/35-N
G 1 1/4"	77	74	35	51	648	MIG 54/35	MIG 54/35-N
G 1 1/4"	77	125	35	51	1170	MIG 54/35-DR	MIG 54/35-N-DR
G 1 1/2"	77	74	35	51	766	MIG 15/35	MIG 15/35-N
G 1 1/2"	84	66	42	54	730	MIG 15/42	same dimension
G 2"	94	79	50	64	990	MIG 20/50	MIG 20/50-N
G 2"	94	135	50	64	1550	MIG 20/50-DR	MIG 20/50-N-DR
G 2 1/2"	105	81	65	74	1027	MIG 25/65*	same dimension

Couplings with male thread

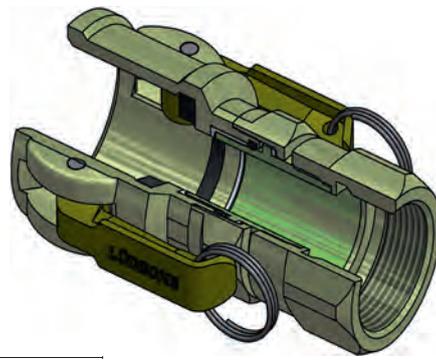
Thread	b	h	Type-Size	Ident.-Size	Weight/pc. g	Type No.	Type No.
G 1"	55	91	25	35.5	485	MAG 10/25**	same dimension
G 1"	74	90	X25	42	735	MAG 10-X25	same dimension
G 1 1/4"	77	93	35	51	793	MAG 54/35	MAG 54/35-N
G 1 1/2"	84	98	42	54	935	MAG 15/42	same dimension
G 2"	94	113	50	64	1420	MAG 20/50	MAG 20/50-N
G 2 1/2"	94	119	50	64	1620	MAG 25/50	MAG 25/50-N

* max. working pressure for type-size 65 PN 25 bar

** type-size 25 with one handle



Mortar Couplings



Seals of Perbunan
55° Shore A



Handle with safety-ring and
slotted pin of steel

Suitable spare parts
(Packing Unit: 10 pcs.)

Øa	Øi	h	Type No.	Type No.
36	24.5	6	MDR 25	MNH-628
43.5	28.5	6	MDR-X25	MNH-630
53.5	36.5	6	MDR 35	MNH-628
53.5	36.5	6	MDR 35	MNH-628
53.5	36.5	6	MDR 35	MNH-628
55	41	6.5	MDR 42	MNH-628
67	51	6	MDR 50	MNH-636
76	61	6.3	MDR 65	MNH-636

Øa	Øi	h	Type No.	Type No.
36	24.5	6	MDR 25	MNH-628
43.5	28.5	6	MDR-X25	MNH-630
53.5	36.5	6	MDR 35	MNH-628
67	51	6	MDR 50	MNH-636
67	51	6	MDR 50	MNH-636

Øa	Øi	h	Type No.	Type No.
36	24.5	6	MDR 25	MNH-628
43.5	28.5	6	MDR-X25	MNH-630
53.5	36.5	6	MDR 35	MNH-628
53.5	36.5	6	MDR 35	MNH-628
53.5	36.5	6	MDR 35	MNH-628
53.5	36.5	6	MDR 35	MNH-628
55	41	6.5	MDR 42	MNH-628
67	51	6	MDR 50	MNH-636
67	51	6	MDR 50	MNH-636
76	61	6.3	MDR 65	MNH-636

Øa	Øi	h	Type No.	Type No.
36	24.5	6	MDR 25	MNH-628
43.5	28.5	6	MDR-X25	MNH-630
53.5	36.5	6	MDR 35	MNH-628
55	41	6.5	MDR 42	MNH-628
67	51	6	MDR 50	MNH-636
67	51	6	MDR 50	MNH-636

Standard-Mortar Plugs

of malleable iron / steel, rigid and swivelling



- Plugs of malleable iron / steel, zinc-plated and yellow passivated (free of chrome VI)
- Turned stem profile for perfect fit of the hose (On request according to drawing or hose sample)
- TÜV-inspected
- Attention: Only same type-size and same system interchangeable!
- For mortar and concrete lines on pumps, spraying-devices, plastering machines a.o.



System 22
(for all type-sizes)



System 23.5
(only type-sizes 35 and 50!)

Max. Working Pressure	Material	Medium	Threads	TÜV-Inspected	
PN 50 bar	malleable iron / steel	mortar / concrete	ISO 228	all types	1

Plugs with hose stem (full passage)



Hose i.D.	Type-Size	h	Ident.-Size	Weight/pc. g	System 22		System 23.5	
					Type No.	Type No.		
25 mm	25	110	35	270	VST 25	same dimension		
25 mm	X25	120	41	385	VST-X25	same dimension		
35 mm	X25	125	41	420	VST-X25-DR	same dimension		
35 mm	35	120	49.5	515	VST 35	VST 35-N		
35 mm	35	146	49.5	740	VST 35-DR	VST 35-N-DR		
38 mm	35	120	49.5	470	VST 38/35	VST 38/35-N		
42 mm	42	120	53	450	VST 42	same dimension		
50 mm	50	140	63	925	VST 50	VST 50-N		
50 mm	50	170	63	1230	VST 50-DR	VST 50-DR-N		
65 mm	65	156	73	1352	VST 65*	same dimension		

Plugs with hose stem (reduced passage)



Hose i.D.	Type-Size	h	Ident.-Size	Weight/pc. g	Type No.	Type No.
19 mm	X25	100	41	325	VST-X25/19 R	same dimension
25 mm	35	115	49.5	545	VST 35/25 R	VST 35/25 R-N
35 mm	50	121	63	830	VST 50/35 R	VST 50/35 R-N
42 mm	50	121	63	757	VST 50/42 R	VST 50/42 R-N

Plugs with female thread



Thread	Hexagon	Type-Size	h	Ident.-Size	Weight/pc. g	Type No.	Type No.
G 1"	41	25	67	35	280	VIG 10/25	same dimension
G 1"	41	X25	67	41	345	VIG 10-X25	same dimension
G 1"	41	X25	106	41	610	VIG 10-X25-DR	same dimension
G 1 1/4"	50	X25	67	41	386	VIG 54-X25	same dimension
G 1"	50	35	63	49.5	521	VIG 10/35	VIG 10/35-N
G 1 1/4"	50	35	68	49.5	461	VIG 54/35	VIG 54/35-N
G 1 1/4"	50	35	120	49.5	840	VIG 54/35-DR	VIG 54/35-DR-N
G 1 1/2"	55	35	68	49.5	453	VIG 15/35	VIG 15/35-N
G 2"	70	35	74	49.5	665	VIG 20/35	VIG 20/35-N
G 1 1/2"	55	42	62	53	420	VIG 15/42	same dimension
G 1 1/4"	65	50	64	63	820	VIG 54/50	VIG 54/50-N
G 1 1/2"	65	50	64	63	678	VIG 15/50	VIG 15/50-N
G 2"	70	50	71	63	620	VIG 20/50	VIG 20/50-N
G 2"	70	50	130	63	1040	VIG 20/50-DR	VIG 20/50-DR-N
G 2 1/2"	85	50	78	63	960	VIG 25/50	VIG 25/50-N
G 2 1/2"	85	65	78	73	999	VIG 25/65*	same dimension

*max. working pressure for type-size 65 PN 25 bar

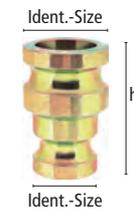
Other swivelling types on request

- Swivelling Version three parts, lead in teflon slide, extremely robust and tight
- Avoids hose twist of the rigid mortar hoses for much easier application

						System 22	System 23.5
Plugs with male thread							
Thread	Hexagon	Type-Size	h	Ident.-Size	Weight/pc. g	Type No.	Type No.
G 1"	41	25	76	35	356	VAG 10/25	same dimension
G 1"	41	X25	76	41	382	VAG 10-X25	same dimension
G 1 1/4"	50	35	83	49.5	527	VAG 54/35	VAG 54/35-N
G 1 1/2"	55	42	77	53	525	VAG 15/42	same dimension
G 2"	65	50	90	63	950	VAG 20/50	VAG 20/50-N



Plugs on both sides – system-reducing plug								
Type-Size	with Ident.-Size	to Type-Size	with Ident.-Size	h	Weight/pc. g	Type No.	Type No.	
X25	41	25	35	90	448	VR X25/25	same dimension	
35	49.5	25	35	97	654	VR 35/25	VR 35-N/25	
35	49.5	X25	41	100	690	VR 35/X25	VR 35-N/X25	
42	53	X25	41	90	620	VR 42/X25	same dimension	
42	53	35	49.5	90	650	VR 42/35	VR 42/35-N	
50	63	X25	41	100	955	VR 50/X25	VR 50-N/X25	
50	63	35	49.5	100	955	VR 50/35	VR 50-N/35-N	
50	63	42	53	95	983	VR 50/42	VR 50-N/42	

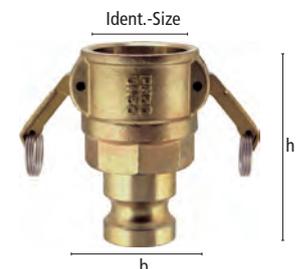


Screwing stems for female thread couplings and plugs

Hose i.D.	Male Thread	h	Weight/pc. g	Type No.
19 mm	G 1"	70	106	MST-X25/19 T
25 mm	G 1"	83.5	128	MST-X25 T
35 mm	G 1 1/4"	91	236	MST 35 T
38 mm	G 1 1/4"	91	210	MST 38/35 T
35 mm	G 2"	107	506	MST 50/35 T
42 mm	G 1 1/2"	97	259	MST 42 T
42 mm	G 2"	106	428	MST 50/42 T
50 mm	G 2"	110	510	MST 50 T
65 mm	G 2 1/2"	130	1145	MST 65 T*



Couplings with plug – system-reducing-adaptors									
Type-Size	with Ident.-Size	Type-Size	with Ident.-Size	b	h	Weight/pc. g	Type No.	Type No.	
X25	42	25	35.5	74	132	993	MSA-X25/25	same dimension	
35	51	X25	42	77	133	1154	MSA 35/X25	MSA 35-N/X25	
42	54	35	51	84	135	1270	MSA 42/35	MSA 42/35-N	
50	64	35	51	94	133	1580	MSA 50/35	MSA 50-N/35-N	
50	64	42	54	94	133	1585	MSA 50/42	MSA 50-N/42	



Handles and seals as spare parts (☺ catalogue page 215)

Mortar Hose Couplings and Plugs

of malleable iron / steel for hydraulic hose crimping, rigid and swivelling



- For hydraulic crimping with turned steel ferrules
- Safe, closed and unremovable connection of hose and fitting
- Couplings and Plugs of malleable iron / steel, zinc-plated and yellow passivated (free of chrome VI)
- Turned stem profile for exact fit of the hose
- Stem-profiles, ferrules and crimping dimensions for special hoses on request according to drawings or hose samples



System 22
(for all type-sizes)



System 23.5
(only type-sizes 35 and 50!)

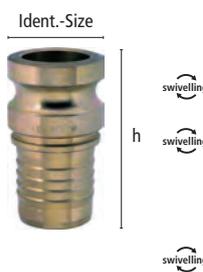
Max. Working Pressure	Material	Medium	Mat. Seal	Crimping Dimensions	TÜV-Inspected	
PN 50 bar	malleable iron / steel	mortar / concrete	Perbunan	on request	all types	1

								System 22	System 23.5
Couplings with hose stem (full passage)									
For Hose	Type-Size	b	Ident.-Size	h	Suit. Ferrule	Weight/pc. g	Type No.	Type No.	
25 x 7 mm	25	55	35.5	125	PH-X25	540	MSTP 25*	same dimension	
25 x 7 mm	X25	74	42	128	PH-X25	780	MSTP-X25	same dimension	
35 x 7 mm	35	77	51	135	PH-35	910	MSTP 35	MSTP 35-N	
38 x 7 mm	35	77	51	135	PH-38	910	MSTP 38/35	MSTP 38/35-N	
42 x 7 mm	42	84	54	127	PH-42	974	MSTP 42	same dimension	
50 x 9 mm	50	94	64	145	PH-50	1480	MSTP 50	MSTP 50-N	



Couplings with hose stem (reduced passage)								
For Hose	Type-Size	b	Ident.-Size	h	Suit. Ferrule	Weight/pc. g	Type No.	Type No.
19 x 6 mm	X25	74	42	125	PH-19	780	MSTP-X25/19 R	same dimension
25 x 7 mm	35	77	51	129	PH-X25	870	MSTP 35/25 R	MSTP 35/25 R-N
35 x 7 mm	50	94	64	140	PH-35	1480	MSTP 50/35 R	MSTP 50/35 R-N

Plugs with hose stem (full passage)							
For Hose	Type-Size	Ident.-Size	h	Suit. Ferrule	Weight/pc. g	Type No.	Type No.
25 x 7 mm	25	35.5	100	PH-X25	305	VSTP 25	same dimension
25 x 7 mm	X25	41	104	PH-X25	339	VSTP-X25	same dimension
25 x 7 mm	X25	41	115	PH-X25 DR	380	VSTP-X25-DR	same dimension
35 x 7 mm	35	49.5	107	PH-35	522	VSTP 35	VSTP 35-N
35 x 7 mm	35	49.5	135	PH-35 DR	740	VSTP 35-DR	VSTP 35-N-DR
38 x 7 mm	35	49.5	107	PH-38	472	VSTP 38/35	VSTP 38/35-N
42 x 7 mm	42	54	106	PH-42	475	VSTP 42	same dimension
50 x 9 mm	50	63	113	PH-50	758	VSTP 50	VSTP 50-N
50 x 9 mm	50	63	145	PH-50 DR	1020	VSTP 50-DR	VSTP 50-N-DR



Plugs with hose stem (reduced passage)							
For Hose	Type-Size	Ident.-Size	h	Suit. Ferrule	Weight/pc. g	Type No.	Type No.
19 x 6 mm	25	35.5	95	PH-19	238	VSTP 25/19 R	same dimension
19 x 6 mm	X25	41	100	PH-19	345	VSTP-X25/19 R	same dimension
25 x 7 mm	35	49.5	102	PH-X25	490	VSTP 35/25 R	VSTP 35/25 R-N
35 x 7 mm	50	63	107	PH-35	820	VSTP 50/35 R	VSTP 50/35 R-N
42 x 7 mm	50	63	108	PH-42	741	VSTP 50/42 R	VSTP 50/42 R-N



Other swivelling types on request

* type-size 25 with one handle

- Swivelling Version three parts, lead in teflon slide, extremely robust and tight
- Avoids hose twist of the rigid mortar hoses for much easier application



Seals of Perbunan
55° Shore A



Handle with safety-ring and
slotted pin of steel

Suitable spare parts
(packing Unit: 10 pcs.)

Øa	Øi	h	Type No.	Type No.
36	24.5	6	MDR 25	MNH-628
43.5	28.5	6	MDR-X25	MNH-630
53.5	36.5	6	MDR 35	MNH-628
53.5	36.5	6	MDR 35	MNH-628
55	41	6.5	MDR 42	MNH-628
67	51	6	MDR 50	MNH-636

Øa	Øi	h	Type No.	Type No.
43.5	28.5	6	MDR-X25	MNH-630
53.5	36.5	6	MDR 35	MNH-628
67	51	6	MDR 50	MNH-636

Crimping Ferrules of turned steel for hydraulic crimping (inner profile exactly suitable to hose stem profile)

For Hose	Type-Size	h	Øi	Ød	Øa	Weight/pc. g	Type No.
19 x 6 mm	19/25	40	31.5	24.5	38	102	PH-19
25 x 7 mm	X25	50	41	33	50	218	PH-X25
25 x 7 mm	swivelling X25	50	41	31.3	50	220	PH-X25 DR
35 x 7 mm	35	55	49	42.5	58	275	PH-35
35 x 7 mm	swivelling 35	55	49	41	58	280	PH-35 DR
38 x 7 mm	35	55	53	45.5	61	259	PH-38
42 x 7 mm	42	55	56	50.5	65	313	PH-42
50 x 9 mm	50	60	68.5	59.5	75	302	PH-50
50 x 9 mm	swivelling 50	60	68.5	57	75	310	PH-50 DR



Screwing Stems for hydraulic crimping

For Hose	Male Thread	Suitable Ferrule	b	h	Weight/pc. g	Type No.
19 x 6 mm	G 1"	PH-19	24	69.5	125	MSTP-X25/19 T
25 x 7 mm	G 1"	PH-X25	32.5	73.5	120	MSTP-X25 T
35 x 7 mm	G 1 1/4"	PH-35	42	80	218	MSTP-35 T
38 x 7 mm	G 1 1/4"	PH-38	45	80	223	MSTP-38/35 T
35 x 7 mm	G 2"	PH-35	42	86	526	MSTP-50/35 T
42 x 7 mm	G 1 1/2"	PH-42	50	80	246	MSTP-42 T
42 x 7 mm	G 2"	PH-42	50	87	452	MSTP-50/42 T
50 x 9 mm	G 2"	PH-50	59	91	497	MSTP-50 T





Sandblast couplings

A durable connection for aggressive abrasive mediums



In applications such as sandblasting cabins or machines the use of **LUDECKE** sandblast couplings and nozzles is essential in order to provide best results. This system is related to the claw coupling design, but different in dimensions with a 58 mm claw distance. All dimensions are identical on the front side and interchangeable with each other regardless of the connection port dimensions.



Couplings made of malleable iron

Robust and stabile



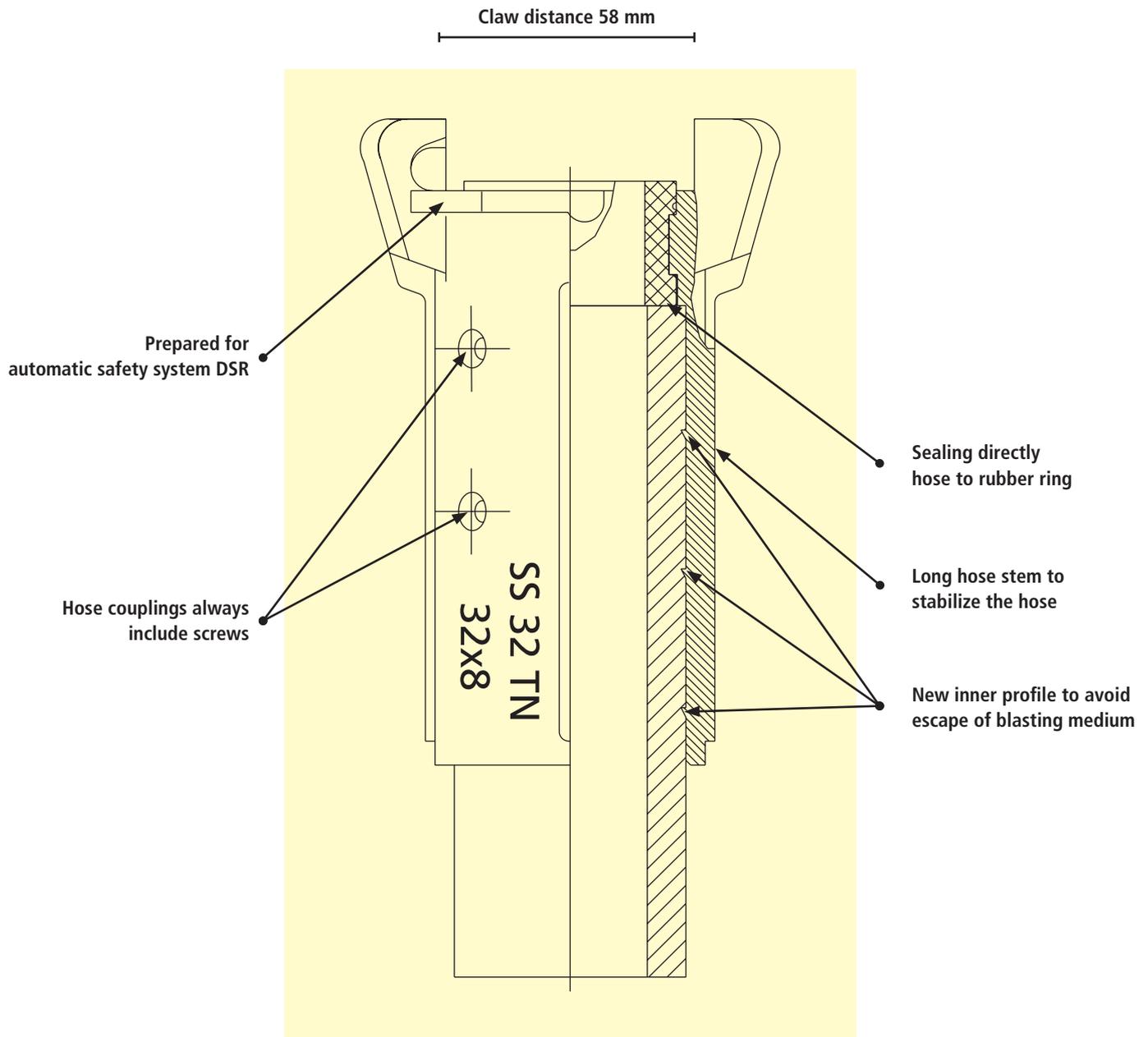
Couplings made of nylon

Extremely light, easy to handle

Note:

For a safe handling and to avoid an unintended disconnection during the usage safety clips are recommended. The hose is fixed inside the body of the coupling while locking screws are screwed through the body into the hose. This assembly avoids abrasion and direct contact with the highly aggressive medium.

Sandblast Couplings Construction



Sandblast Couplings and Nozzle Holders

- Couplings of malleable iron, zinc-plated and yellow passivated (free of chrome VI) or of nylon
- Nozzle holders of aluminium or nylon
- Hose couplings and nozzle holders generally with screws
- 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) for your own security
- Types 'TN' with direct sealing hose to gasket and extended stem with new inner profile to avoid escape of blasting medium
- To be used on all stationary and mobile blasting machines and plants

Max. Working Pressure	Material	Mat. Seal	Medium	Threads	Claw Distance	☒
PN 12 bar	malleable iron / aluminium / nylon	Perbunan	blasting media	ISO 228 / coarse thread	58 mm	1



Hose Couplings of malleable iron

For Hose	h	b	Weight/pc. g	Type No.
19 x 6 mm	100	63	900	SS 19 T*
25 x 7 mm	93	87	481	SS 25 T
32 x 8 mm	135	87	827	SS 32 TN
32 x 8 mm	92	87	570	SS 32 T
38 x 9 mm	129	87	784	SS 38 T
40 x 10 mm	150	87	893	SS 40 T

*KIG 54 (claw distance 42 mm) with screwed-in steel pipe



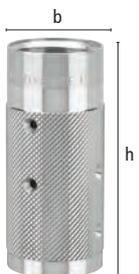
Female thread Couplings of malleable iron

Thread	h	b	Weight/pc. g	Type No.
G 1 1/4"	62	87	509	SK 38 TN
G 1 1/4"	55	87	392	SK 38 T
G 1 1/2"	62	87	464	SK 38/15 TN
G 1 1/2"	55	87	340	SK 38/15 T
Coarse thread 50 mm	62	87	448	SK 50 TN
Coarse thread 50 mm	55	87	324	SK 50 T
G 2"	84	87	550	SK60 T



Original Rubber Ring for couplings of malleable iron

For Type	Material	Colour	Shore h. A	ø i	ø a	h	Weight/pc. g	☒	Type No.
...T	Perbunan	black	60°	31	48.5	10.5	11	10	SKD
...TN	Perbunan	black	60°	31	44	27	20	10	SKD-1



Nozzle Holders of aluminium with female thread

For Hose	Thread	l	b	Weight/pc. g	Type No.
32 x 8	G 1 1/4"	130	57	248	SD 32-32 A
32 x 8	Coarse thread 50 mm	130	57	231	SD 50-32 A

Original Spare Parts for couplings and nozzle holders

Type	Material	Characteristic	Weight/pc. g	☒	Type No.
Screws	steel zinc-plated	recessed head 4.2 x 13	1	50	SHS
Safety Clip DIN 11024	steel zinc-plated	wire ø 3 mm	10	50	USC-1
Autom. Safety System	steel zinc-plated	wire ø 2 mm	6	10	DSR

Sandblast Couplings and Nozzle Holders

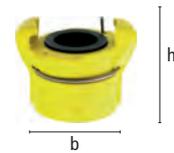
Hose Couplings of Nylon

For Hose	h	b	Weight/pc. g	Type No.
19 x 7 mm	110	51	193	CQP-3/4
25 x 7 mm	110	51	165	CQP-1
32 x 8 mm	136	60	222	CQP-2
38 x 9 mm	136	67	244	CQP-3
42 x 9/40 x 10 mm	136	71	215	CQP-4



Female thread Couplings of Nylo

Thread	h	b	Weight/pc. g	Type No.
G 1 1/4"	63	61	126	CFP
Coarse thread 50 mm	63	61	107	CPF-50



Original Rubber Ring for couplings of Nylon

For Coupling	Material	Colour	Shore h. A	∅i	∅a	h	Weight/pc. g	⊠	Type No.
CQP-3/4	Perbunan	black	60°	19	44	27	20	5	SDR-1
CQP-1	Perbunan	black	60°	25	44	27	17	5	SDR-2
All other types	Perbunan	black	60°	31.5	44	27	18	5	SDR-3



Nozzle Holders of Nylon with female thread

For Hose	Thread	h	b	Weight/pc. g	Type No.
19 x 7 mm	Coarse thread 50 mm	100	49	115	NHP-34
25 x 7 mm	Coarse thread 50 mm	100	51	93	NHP-1
32 x 8 mm	Coarse thread 50 mm	120	59	150	NHP-2
38 x 9 mm	Coarse thread 50 mm	128	66	156	NHP-3
19 x 7 mm	G 1 1/4"	100	51	109	HEP-34
25 x 7 mm	G 1 1/4"	100	51	102	HEP-1
32 x 8 mm	G 1 1/4"	128	59	154	HEP-2
38 x 9 mm	G 1 1/4"	128	66	166	HEP-3



Sandblast Throttle Valve with lever stop, without exhaust, both sides tapered male thread

- Extreme reliable Version with throttle of steel

Inlet	Outlet	DN	h	b	⊠Hexag.	Weight/pc. g	Type No.
R 1"	R 1"	16	96	100	37	741	ADA 10 SK





Hose Clamps and Throttle Valves

Additionally to the product portfolio of quick connect couplings, **LUDECKE** offers a wide range of fittings and accessories for the claw, Kamlok and industrial product range. See on the following pages hose clips, clamps and throttle valves to be combined with the **LUDECKE** product range.



Hose Clamps and Hose Clips

For hose assembly of fittings different assembly methods from strong clamps to light clips or ferrules can be used according to application, medium, pressure or hose material.

The necessary method is subject to criteria such as:

- Safety instructions
- Removable or not removable
- Quickness
- Necessary tools (e.g. crimping machine)
- Cleanliness or connections with injury risk (e.g. over - extended screws)



Throttle Valves:

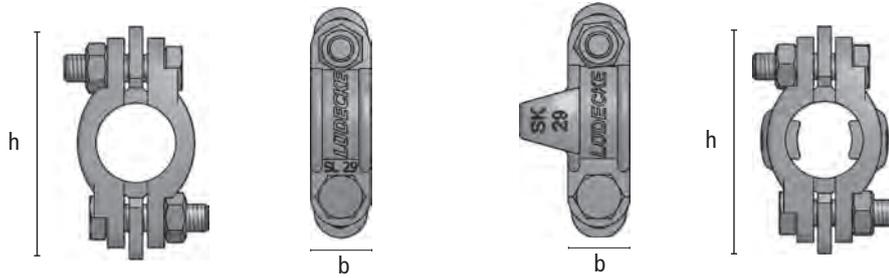
Throttle Valves serve as shut-off fittings in pipe systems for compressed air and other fluids. The sealing concept is sealing metal against metal under pressure.

Throttle valves are perfect under extreme conditions in construction.

Hose Clamps

Malleable Iron and Stainless Steel

- Robust clamps of malleable iron, zinc-plated and yellow passivated (free of chrome VI) or stainless steel 1.4401
- Easy and secure, for various fittings and applications



Max. Working Pressure	Material	Material Screws	Norm
PN 16 / 25 bar	malleable iron / stainless steel	DIN 933-8.8 VG / 1.4401	© below

Hose Clamps, two parts with overlapping cast spacers

For hose i.D.	Hose o.D./Range	b	h	PN	Weight/pc. g	☐	Type No.
1/2" = 13 mm	17–22 mm	17	60	16	95	10	S 22
3/4" = 19 mm	27–32 mm	17	70.5	16	105	10	S 34

Hose Clamps DIN 20039 A, two parts with loose spacers, Material Stainless Steel 1.4401

Size								
For hose i.D.	Screws	Hose o.D./Range	b	h	PN	Weight/pc. g	☐	Type No.
1/2" = 13 mm	M 8 x 30	18 – 26 mm	18	63	16	140	5	SLE 13
3/4" = 19 mm	M 8 x 30	26– 33 mm	18	71	16	160	5	SLE 19
1" = 25 mm	M 10 x 35	32 – 40 mm	18	81	16	210	5	SLE 25

Hose Clamps DIN 20039 A*, two parts with loose spacers

For hose i.D.	Hose o.D./Range	b	h	PN	Weight/pc. g	☐	Type No.
1/2" = 13 mm	22–29	18	63	16	128	10	SL 29*
3/4" = 19 mm	28–34	18	71	16	134	10	SL 34*
1" = 25 mm	32–40	18	81	16	188	10	SL 40*
1 1/4" = 32 mm	39–49	20	91	16	244	10	SL 49*
1 1/2" = 38 mm	48–60	24	108	16	297	5	SL 60*
2" = 50 mm	56–72	25	116	16	340	5	SL 72
2" = 50 mm	60–76	25	127	16	374	5	SL 76*
2 1/2" = 63 mm	77–94	30	146	16	556	5	SL 94*
3" = 75 mm	89–101	25	139	16	665	1	SL 400
3" = 75 mm	94–115	35	176	16	739	1	SL 115
3 1/2" = 89 mm	113–127	27	170	16	890	1	SL 525
3 1/2" = 89 mm	115–145	38	198	16	1046	1	SL 145
4" = 100 mm	127–140	28	178	16	972	1	SL 550
4" = 100 mm	135–155	27	194	16	984	1	SL 600
5" = 125 mm	155–175	30	217	16	1130	1	SL 675
6" = 150 mm	175–195	30	244	16	1445	1	SL 769
7" = 175 mm	210–225	35	280	16	2163	1	SL 875
8" = 200 mm	227–250	35	312	16	2610	1	SL 988

Hose Clamps DIN 20039 B, two parts with loose spacers and safety claws

For hose i.D.	Hose o.D./Range	b	h	PN	Weight/pc. g	☐	Type No.
1/2" = 13 mm	22–29	18	63	25	142	10	SK 29
19x2		18	63	25	140	10	SK 29 FL*
3/4" = 19 mm	28–32	21	77	25	220	10	SK 34
25x2		21	77	25	220	10	SK 34 FL*
1" = 25 mm	35–42	22	90	25	272	10	SK 39
1 7/64" = 28 mm	42–45	24	98	25	340	5	SK 44
1 3/8" = 35 mm	45–53	25	108	25	380	5	SK 51
1 5/8" = 42 mm	55–60	26	119	25	416	1	SK 60
2" = 50 mm	60–73	30	132	25	637	1	SK 73
3" = 75 mm	86–102	28	160	25	860	1	SK 75



US-Hose Clamps

- Robust clamps of malleable iron, zinc-plated and yellow passivated (free of chrome VI)
- Easy and secure, for various fittings and applications



Max. Working Pressure	Material screws	Material
PN 25 bar	DIN 933-8.8 VG	malleable iron

US-Hose Clamps, two parts with safety claws

For hose i.D	Screws	Hose o.D./Range	b	h	PN	Weight/pc. g	☐	Type No.
1/2" = 13 mm	2	21–27	55	45	25	171	10	LB-4
3/4" = 19 mm	2	30–35	65	43	25	176	10	SKA 34
3/4" = 19 mm	2	30–33	70	64	25	405	1	LBU-9
3/4" = 19 mm	2	33–38	71	70	25	413	1	LB-9
3/4" = 19 mm	2	38–43	78	68	25	433	1	LB-10
1" = 25 mm	2	35–45	85	70	25	500	1	SKA 10
2" = 50 mm	4	63–70	120	100	25	1503	1	LBU-29

Two-Ear Hose Clips

- Profile according to DIN 2393 C
- Clips 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 unremovable
- No danger of hurt during assembly or work
- Suitable for various hoses and fittings for different fluids

Material	Medium	☐
special reliable steel	various	100

Two-Ear-Hose Clips



Hose o.D./Range	band-width	Weight/pc. g	Type No.
5–7 mm	5.5 mm	1	ZOS 5-7
7–9 mm	6 mm	2	ZOS 7-9
9–11 mm	6 mm	2	ZOS 9-11
11–13 mm	6 mm	3	ZOS 11-13
13–15 mm	7 mm	4	ZOS 13-15
14–17 mm	7.5 mm	4	ZOS 14-17
15–18 mm	8 mm	5	ZOS 15-18
17–20 mm	8 mm	5	ZOS 17-20
19–21 mm	7 mm	5	ZOS 19-21
20–23 mm	9 mm	8	ZOS 20-23
22–25 mm	9 mm	9	ZOS 22-25
23–27 mm	9 mm	9	ZOS 23-27
25–28 mm	9 mm	10	ZOS 25-28
27–31 mm	9 mm	12	ZOS 27-31
31–34 mm	9 mm	13	ZOS 31-34
34–37 mm	9 mm	16	ZOS 34-37
37–40 mm	9 mm	17	ZOS 37-40
40–43 mm	9 mm	18	ZOS 40-43
Special assembly pincer		332	ZOSZ



Throttle Valves

Standard Version

- Extremely robust valves of malleable iron, zinc-plated and yellow passivated (free of chromeVI)
- With brass throttle and handle of malleable iron
- Self sealing, under pressure the conical throttle is pressed against the body, so the valve gets tight, therefore no wear of seals
- With threads or claw couplings with rubber or brass seal
- When switching off pressure drop through exhaust from outlet side, therefore easy and safe coupling
- For compressed air in construction, on compressors, hose lines and air tools

Max. Working Pressure	Temperature	Material	Medium	Threads	Claw Distance	DIN	
PN 10 bar	-15°C – +80°C	malleable iron	compressed air	ISO 228	42 mm	© below	1

Single Valves DIN 3486 with lever stop and exhaust



Inlet	Outlet	DN	h	l	Hexagon	Weight/pc. g	Type No.
1 G 1/2" f	G 3/4" m	15	100	77	41	660	EH 12
1 G 3/4" f	G 3/4" m	17	100	70	41	610	EH 34
1 G 1" f	G 3/4" m	17	100	70	41	565	EH 10
2 G 1/2" f	KIGO 34	15	100	112	41	819	EHG 12
2 G 3/4" f	KIGO 34	17	100	100	41	761	EHG 34
2 G 1" f	KIGO 34	17	100	100	41	726	EHG 10
3 G 1/2" f	KIM 34	15	100	122	41	859	EHM 12
3 G 3/4" f	KIM 34	17	100	115	41	808	EHM 34
3 G 1" f	KIM 34	17	100	115	41	759	EHM 10
swivelling G 3/4" f	KIG 34-DR	17	100	130	41	943	EHG 34-DR

Double Valves DIN 3487 with lever stop and exhaust



Inlet	Outlet	DN	h	l	Hexagon	Weight/pc. g	Type No.
1 G 3/4" f	2 x G 3/4" m	17	100	110	41	1146	DH 34
1 G 1" f	2 x G 3/4" m	17	100	110	41	1100	DH 10
2 G 3/4" f	2 x KIGO 34	17	100	170	41	1466	DHG 34
2 G 1" f	2 x KIGO 34	17	100	170	41	1438	DHG 10
3 G 3/4" f	2 x KIM 34	17	100	180	41	1545	DHM 34
3 G 1" f	2 x KIM 34	17	100	180	41	1503	DHM 10
swivelling G 3/4" f	2 x KIG 34-DR	17	100	225	41	1816	DHG 34-DR

Straight Way Valves without lever stop, without exhaust, on request with exhaust



Inlet	Outlet	DN	h	l	Hexagon	Weight/pc. g	Type No.
G 1/2" f	G 1/2" f	13	96	80	37	700	DU 12
G 3/4" f	G 3/4" f	16	96	92	41	820	DU 34
G 1" f	G 1" f	16	96	92	41	770	DUL 10
G 1" f	G 1" f	20	125	87	43	1012	DUS 10

Airhammer Valves DIN 20030 without lever stop, without exhaust, inlet thread with lock nut



Inlet	Outlet	DN	h	l	Hexagon	Weight/pc. g	Type No.
G 3/4" m	G 3/4" m, Cone 1 : 4	13	85	110	32	632	BH 343
G 3/4" m	Rd 32 x 1/8" m, Cone 1 : 3	13	95	140	32	773	BH 3486
G 1" m	G 1" m, Cone 1 : 3	16	95	120	36	848	BH 106
G 1" m	Rd 32 x 1/8" m, Cone 1 : 3	16	95	120	36	834	BH 326

Throttle Valves

US-Version

- Extremely robust valves of malleable iron, zinc-plated and yellow passivated (free of chromeVI)
- With brass throttle and handle of malleable iron
- Self sealing, under pressure the conical throttle is pressed against the body, so the valve gets tight, therefore no wear of seals
- With NPT-threads or claw couplings US-Type with rubber seal
- When switching off pressure drop through exhaust from outlet side, therefore easy and safe coupling
- For compressed air in construction, on compressors, hose lines and air tools

Max. Working Pressure	Temperature	Material	Medium	Threads	Claw Distance	⊗
PN 10 bar	-15°C – +80°C	malleable iron	compressed air	NPT	41 mm	1

US-Double Valves with lever stop and exhaust

Inlet/female	Outlet/male	DN	h	l	⊙Hexagon	Weight/pc. g	Type No.
① 3/4" f NPT	2 x 3/4" m NPT	17	100	120	41	1170	DHA 34
② 1" f NPT	2 x 3/4" m NPT	17	100	120	41	1130	DHA 10
③ 3/4" f NPT	2 x KIA 34	17	100	205	41	1570	DHGA 34
④ 1" f NPT	2 x KIA 34	17	100	205	41	1530	DHGA 10



US-Straight-Way Valves without lever stop, without exhaust, on request with exhaust

Inlet/female	Outlet/female	DN	h	l	⊙Hexagon	Weight/pc. g	Type No.
1/2" f NPT	1/2" f NPT	13	80	80	32	530	ADI 12
3/4" f NPT	3/4" f NPT	16	96	95	41	905	ADI 34
1" f NPT	1" f NPT	16	96	95	41	850	ADI 10



US-Straight-Way Valves without lever stop, without exhaust, on request with exhaust

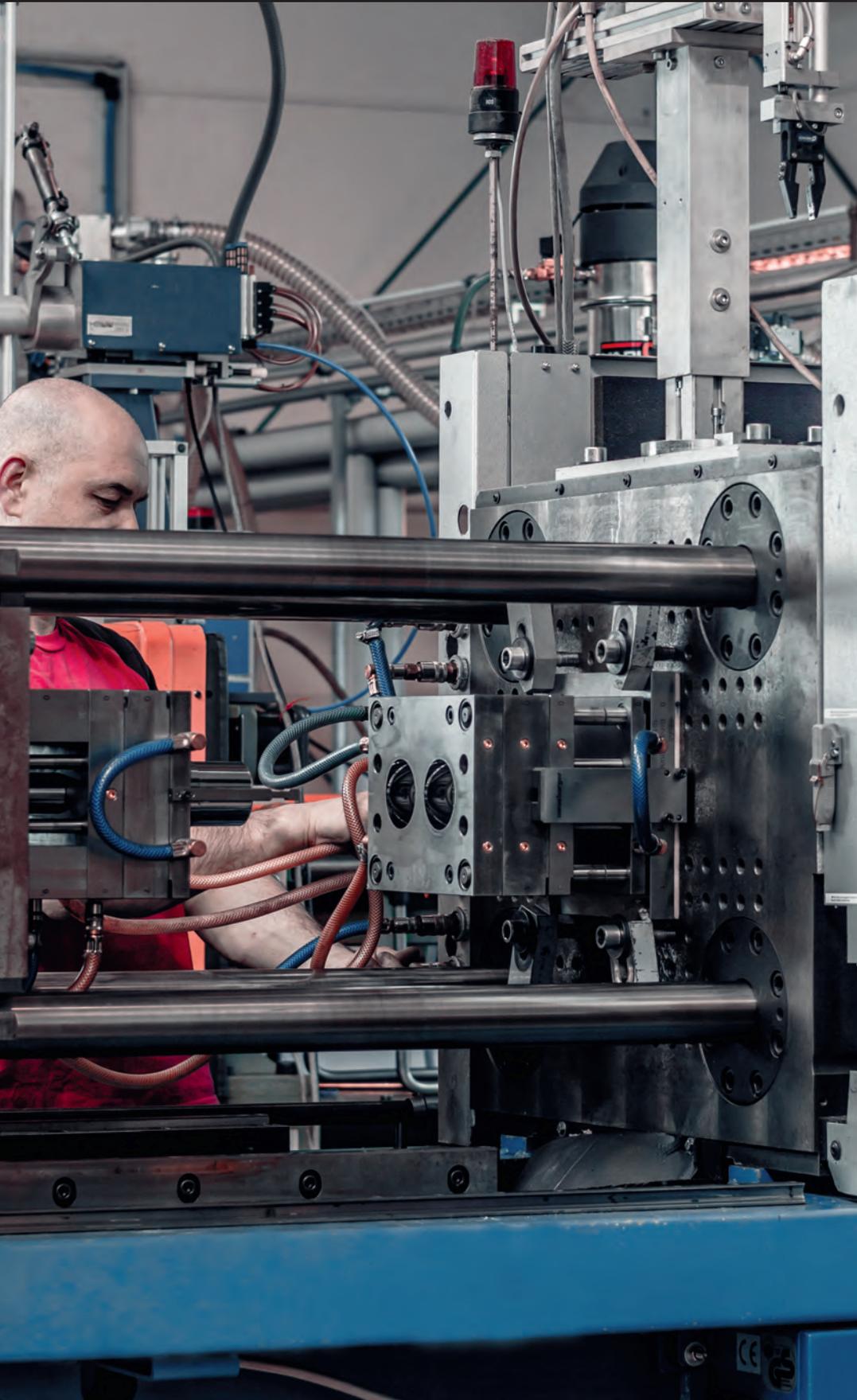
Inlet/male	Outlet/male	DN	h	l	⊙Hexagon	Weight/pc. g	Type No.
1/2" m NPT	1/2" m NPT	13	80	85	25	430	ADA 12
3/4" m NPT	3/4" m NPT	16	96	95	37	700	ADA 34
1" m NPT	1" m NPT	16	96	95	37	750	ADA 10



- ① without coupling
- ② with coupling
- ③ coupling with rubber seal
- ④ coupling with brass seal

LUDECKE

MOULDING



**Temp
Tec**
by **LUDECKE**

**Temp
Secure**
by **LUDECKE**

Temperature Control Quick Connect Coupling Systems

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Overview of the **LÜDECKE** plug systems for temperature control applications

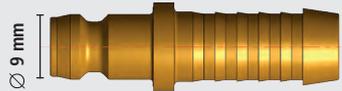
Plug Profiles in original size

Series: ESHMC | ESHM | ESHMT | ESHME | ESH | ESHT | ESHE | ESHG

European Plug Profile



ESHMC © Page 120



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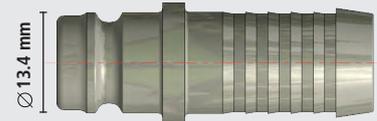


ESHME © Page 136

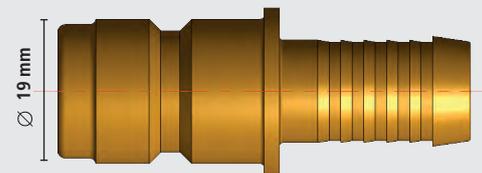
European Plug Profile



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ESHG © Page 132

Series: ESDM | ESDMF | ESD | ESDF

International Plug Profile



ESDM © Page 140



ESDMF © Page 144

International Plug Profile



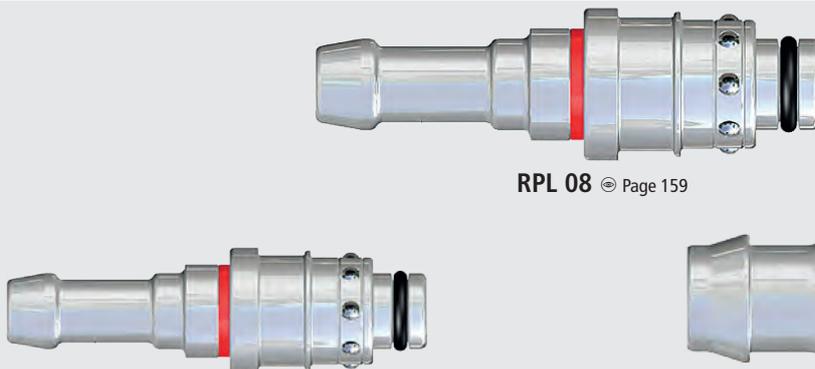
ESD © Page 148



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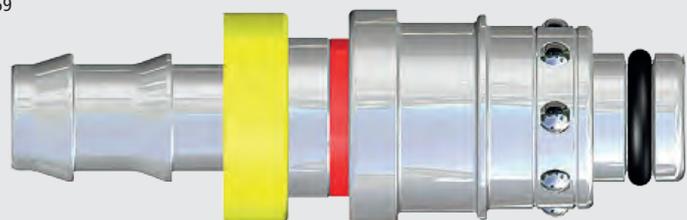
Series: RPL 06 | 08 | 12

Original Stäubli



RPL 06 © Page 158

RPL 08 © Page 159



RPL 12 © Page 163

*available in Germany

Safe and quick connections for temperature control applications

Easy handling, safe, quick connection and release, robust and reliable for rapid installation and optimum operational safety

General Technical Information:

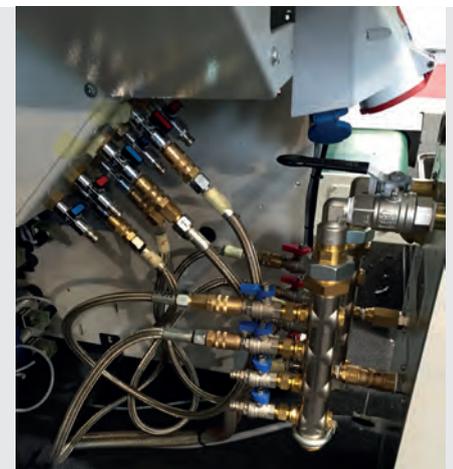
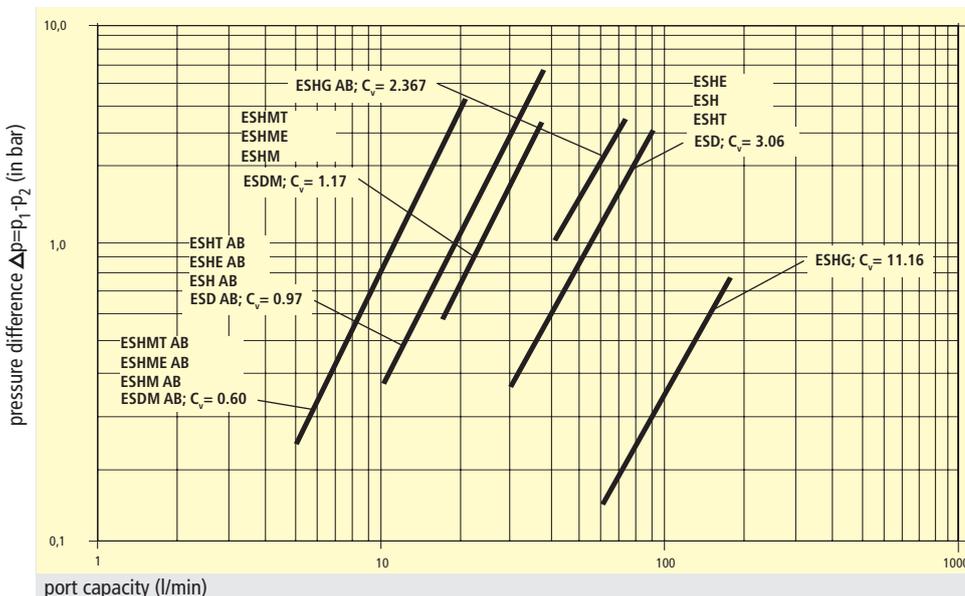
- Quick Connect Coupling Systems DN 2.7, DN 6, DN 9 and DN 13 as well as screwings and components
- For connection of temperature control hoses with various temperature control media (e.g. water, steam, oils)
- Optimum flow capacity even with small dimensions
- Available with straight-through passage as well as single or double shut-off
- All couplings with FKM O-ring seals have a PTFE coating (Endurable up to max. 200°C – subject to media and working pressure!)
- For permanent operation over 160°C, an exact specification for the necessary type should be determined (© Page 115 for special seals)
- A number of distinctive features:
 - Difference between fine threads acc. to DIN 13 and threads acc. to ISO 228, is that all ISO 228 threads have a lathed shoulder
 - The brass plugs with inch threads are generally nickel-plated, the metric threads are messing only
 - The sleeves of straight-through passage couplers are nickel-plated
 - Categorical colour coding system for distinction between flow and return (© Page 119)
- Couplings with extended sleeves can easily be connected and disconnected with countersunk plugs in the mould
- Optionally, all European coupling types can be equipped with safety locking (© Page 114)
- Alternatively, all couplings types with hose stems for standard hoses or with quick fit hose stems for quick fit hoses are available (series ESDM and ESD on request)
- All shut-off valve couplings are generally suitable for connection with shut-off valve plugs
- A maximum, continuous temperature of 100°C applies for quick fit hose applications!
- All coupling series have a one-hand operating function
- The series ESDMF and ESDF couplers have a flat sealing ring on the front end and a two-hand operating function



Flow Rate Comparison Diagram for all European and International

LUDECKE temperature control Quick Connect couplings DN 6,9 and 13

Performance diagram: medium water at 20°C, couplings and plugs with straight-through passage and as well as double shut-off valve (AB)

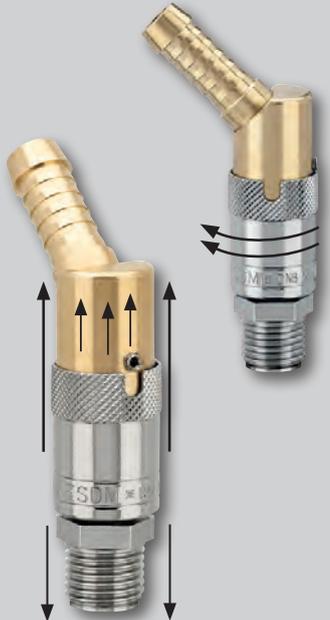


The Unlocking Safeguard

Safety for man and machine

Simple and effective protection against unauthorized disconnection under pressure through rotating the coupler sleeve.

Disconnection only possible with an exact engagement of the safety pin into sleeve notch



Other safety systems for disconnect safety on request!



- Safety for man and the environment against unintentional leakage of temperature control fluids
- Prevention of fluid or pressure loss in the circulation during operation, and therefore securing productivity and to avoid damages to the machine and mould
- Unlocking safeguard available for the European series ESHM, ESHME, ESH, ESHE and the International series ESDM and ESD
- Safety not only for high-temperature applications

The unlocking safeguard can be ordered with a surcharge gross price per piece. When ordering, simply add an "S" to the standard article number (e.g. ESHM 9 TLS).

Temperature Control Couplings with 360° rotatable Connector

- The hose stem and male thread couplings from the series ESHM and ESH are optionally available with a rotatable connector with a high-quality ball-and-socket joint with double O-ring sealing against a surcharge
- The swivel joint withstands the pulling and rotary motion especially 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. Leaks in the temperature control circuit are therefore prevented. Furthermore, the swivel joint helps that the temperature hoses do not kink on their way to the tool.

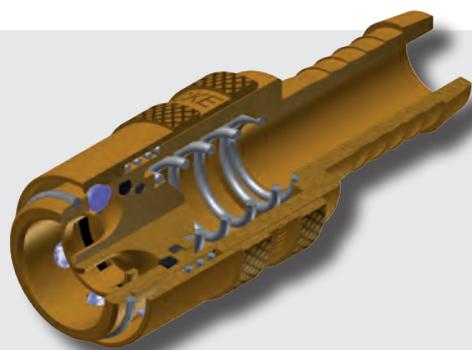


The rotatable connectors can be ordered with a surcharge gross price per piece with a minimum order quantity of 20 pieces/type. When ordering, simply add "DR" to the standard article number (e.g. ESHM 9 TLABDR).

Other coupling series available on request!

The new O-ring Generation made of high-quality modified FKM

More resistant and long-lasting



- ❶ Heat resistance up to 200°C, high resistance against all common tempered media*
- ❷ FKM-O-rings are generally PTFE coated, therefore significantly better gliding properties and lower wear
- ❸ High elasticity (no crack formation) according to DIN 53504
- ❹ High abrasion resistance of the O-ring according to DIN 54021
- ❺ Prevents bonding of the O-ring and the plug during high temperature application
- ❻ Significantly higher operation time of the couplings

European Plug Systems:

One-hand operation and O-ring-sealing

International Plug Systems:

Optional with one-hand operation and O-ring-sealing (Series ESDM / ESD) or two-hand operation with flat sealing (Series ESDMF / ESDF)

High-performance special seals for temperature control couplings

High resistance during maximum workload



For temperature control coupling series ESHM and ESH, ESHME and ESHE, ESDM and ESD as well as ESHG, new high-performance special seals are alternatively offered for highly aggressive tempered fluids.

These can be ordered with a surcharge gross price per piece and a minimum order quantity of 20 pieces/type.

FKM O-ring

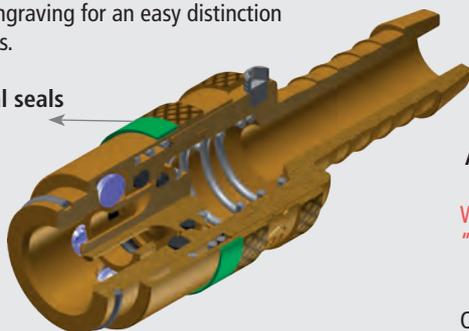
- Extreme heat resistance up to 200°C continual temperature
- High resistance against synthetic oils used as tempered media
- Very good chemical resistance and high resistance against aliphatic hydrocarbons (fuels)
- The coupling sleeve is marked with a green anodised aluminium ring and laser engraving for an easy distinction between standard couplings.

HITEC®-EPDM-O-ring

- Extreme heat resistance up to 160°C continual temperature
- High resistance against hot water, ultrapure water and steam used as tempered media
- Aging and weather resistant
- Possesses a KTW certification for drinking water in Germany
- The coupling sleeve is marked with a black anodized aluminium ring for an easy distinction between standard couplings.

When ordering, simply add to the standard article number "HV" (e.g. ESHM 9 TLABHV).

Special seals



Attention: this ring is not resistant to mineral oil and grease!

When ordering, simply add to a standard article number "HE" (e.g. ESHM 9 TLABHE).

Other coupling series available on request.

*temperature resistance is subject to used medium



LUDECKE TempSecure® –

Safety without compromise for temperature control applications



**Temp
Secure**
by **LUDECKE**

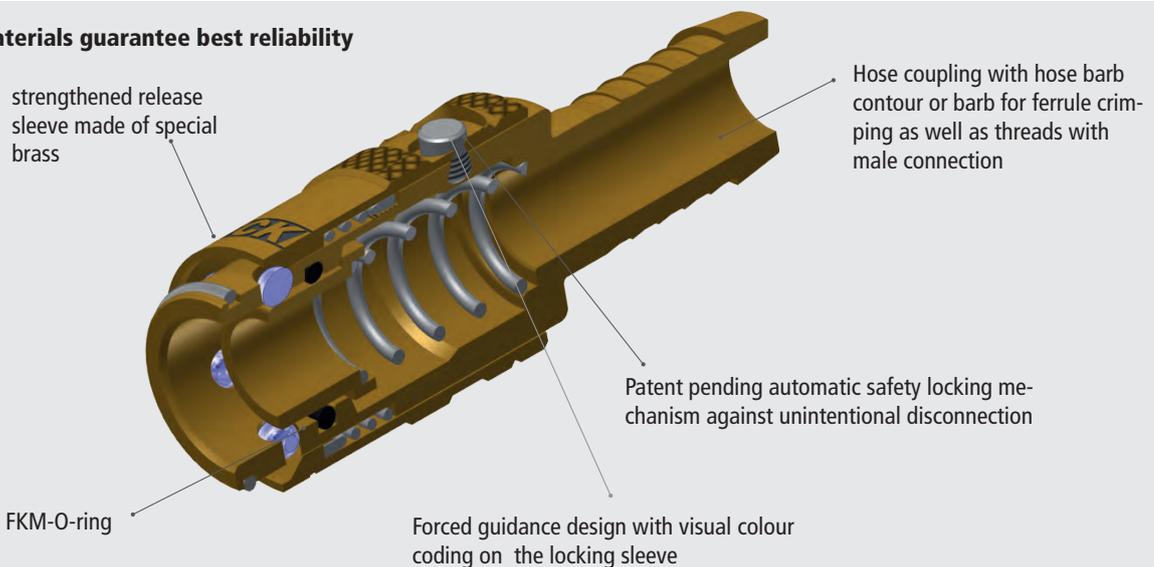
The patent pending **LUDECKE** TempSecure temperature control coupling system offers an automatic safety interlock that offers an effective solution for unintentional disconnection and unlocking.

The coupling is especially suited for use with aggressive media, such as temperature control applications with hot or cold water as well as tempered oil between - 20°C and +200°C. High quality FKM make the coupling an ideal media carrier especially with high temperature

Characteristics

- Available for series ESHMT DN 6 and ESHT DN 9
- 100% interchangeable and connectable with standard versions of same nominal diameter
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of special brass material
- High temperature range FKM seals with resilient characteristics
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications
- Optionally available non-valved, single or double shut-off

High-quality materials guarantee best reliability





Easy-Reliable-Quick



Forced guidance with visual colour coding on the locking sleeve
green = connected



Forced guidance with colour coding on the locking sleeve
MS brass = disconnected

The **LUDECKE** TempSecure temperature control quick connect coupling system is characterized above all through its simple and intuitive connecting process. The connection takes place via automatic locking.

The forced guidance on the locking sleeve automatically guides the sleeve in a locked position, resulting in an easy and forced process to connect the system blindly. Even at difficult and hidden assembly situations an easy operation is possible.

An additional colour coding on in the locking sleeve clearly indicates the current state of connection status.



Coupling:

One-hand operation – To connect the system simply push the plug into the safety coupling. The release sleeve moves automatically forward into the final safety lock position while twisting about 30 degrees. The coupling is now firmly connected with the plug and secured against unintentional opening.



Disconnection:

To release the plug from the safety coupling the sleeve has to be pushed about 3 mm axially. Second step is to twist 30° clockwise, as well as a repeated axial movement of the sleeve of about 4 mm. The plug is disconnected and can be removed from the safety coupling.

This safety coupling is designed to be used for applications which require the highest possible safety due to the used medium and the temperature of the media type.

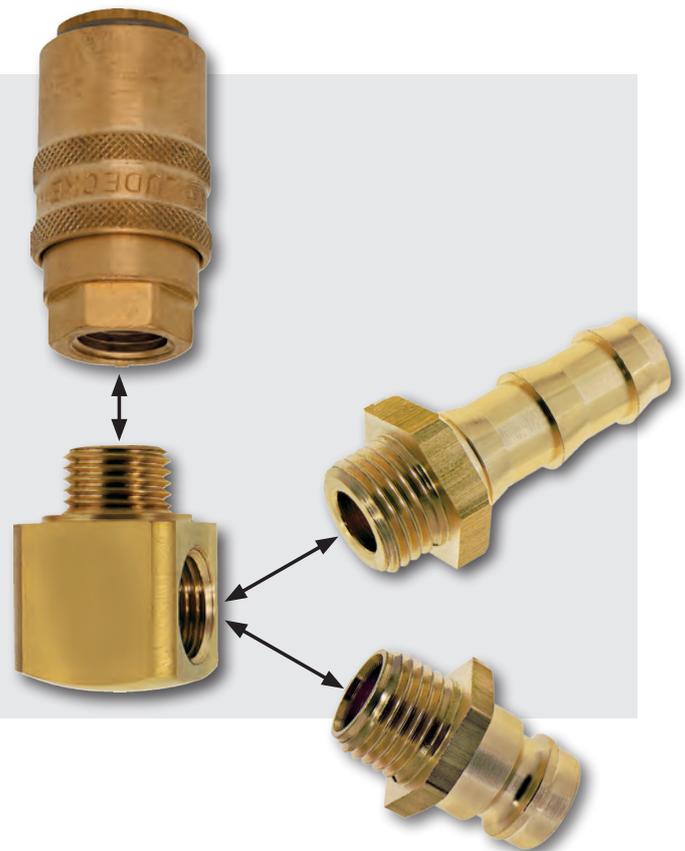
The modular system and the anchoring concept of the quick-fit hose stems

Quick, safe, reliable

The modular system

According to your requirements, easily combinable with 45°/135° and 90° angle pieces, which can be screwed to threaded couplings and hose stems.

(© Page 168 – 171)



The anchoring concept

Safest clamping features with quick-fit hose stem contour

quick, save, easy!

- The anchoring concept guarantees safest clamping features without additional clamp assembly, and provides a secure hold in combination with an absolute leak-free sealing between plug fitting and fastening hose
- Therefore, no aid at all, tools or hose clamps are necessary to assemble the hose!
- The coloured rings assure an easy and clear marking of uni-coloured fastening hoses to distinguish the difference between heating or cooling circulations.

- Suitable fastening hoses are available from various manufacturers and Manifolds. We will be pleased to assist you on request.
- Special models or other sizes/types available on request.



Colour coding of the couplings

Brilliant, easy distinction

A red or blue anodized aluminium ring for the sleeve can be ordered for easy identification and distinction between flow and return lines of the tempered circuit for the series ESHM, ESHME, ESH and ESHE.



These are available with a surcharge gross price per piece and a minimum order quantity of 20 pieces/type. When ordering, simply add to a standard article number "R" or "B" (e.g. ESH 13 TLR or ESHM 9 TLABB).

The rings are also individually available for self-assembly. Simply slide the ring on the coupling sleeve for identification!

Marking rings for temperature control couplings

for coupling type	color	Ø	Material		Weight/pc. g	Art. No.
ESHME, ESHM/DN6	red	17	Aluminium anodised	50	1	ESHM-CR-R
ESHME, ESHM/DN6	blue	17	Aluminium anodised	50	1	ESHM-CR-B
ESHE, ESH/DN9	red	22	Aluminium anodised	50	2	ESH-CR-R
ESHE, ESH/DN9	blue	22	Aluminium anodised	50	2	ESH-CR-B

Other coupling series available on request.



Temperature Control Quick Connect Coupling System

Series ESHMC plug size 5 mm – material brass 2.0401

DN 2.7

European
MICRO Plug
Profile

- For temperature control applications with hot or cold water as well as tempered oil
- The new Series DN 2.7 is especially suitable for the connection of temperature controlled lines on moulds in the plastics manufacturing industry for the production of micro-parts with very small tools
- Optional with non-valved, single or double shut-off
- Extended sleeves for problem-free connection of plugs counter-sunk in the mould, angled connections avoid the kinking of thin-walled hoses

Materials

- Body, sleeve, valve body, valve, plug: MS 58 brass material 2.0401
- Springs, retaining ring: stainless steel 1.4310; balls: stainless steel 1.3541
- O-rings: FKM (PTFE-coated)

Max. Working pressure	Temperature	Medium	DN	Thread	One-Hand	Shutt-off	
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	2.7	DIN 13, DIN 158	yes	free/single/double	coupl. 5 / plugs. 10

Couplings with straight standard hose stem without / with valve

Hose i. D.	Connection	l	d	Stem Length	d1	Passage	Weight/pc g	Type No. w/o valve	Type No. w. valve
5 mm	straight	35	10	13.5	5	3.5	10	ESHMC 5 TL	ESHMC 5 TLAB

Couplings with 45°/135° standard hose stem without / with valve

Hose i. D.	Connection	l	d	Stem Length	d1	Passage	Weight/pc g	Type No. w/o valve	Type No. w. valve
5 mm	45°/135°	41	10	13.5	5	3.5	8	ESHMC 5 TL-45	ESHMC 5 TL-45AB

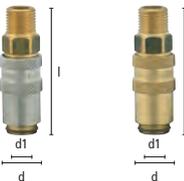
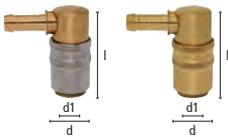
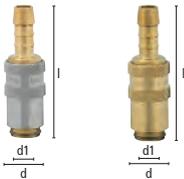
Couplings with 90° standard hose stem without / with valve

Hose i. D.	Connection	l	d	Stem Length	d1	Passage	Weight/pc g	Type No. w/o valve	Type No. w. valve
5 mm	90°	41	10	13.5	5	3.5	8	ESHMC 5 TL-90	ESHMC 5 TL-90AB

Couplings with straight male thread without / with valve

Thread	Hex.	l	d	Thread Length	d1	Passage	Weight/pc g	Type No. w/o valve	Type No. w. valve
M 5 x 0.5	9	26	10	5	5	3.5	9	ESHMC 505 A	ESHMC 505 AAB
M 8 x 0.75	9	28	10	7	5	3.5	10	ESHMC 875 A	ESHMC 875 AAB

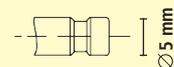
Suitable hose clips for hose couplings, two ear clips or crimping ferrules for standard hoses (☺ catalogue page 172 – 175)



Temperature Control Quick Connect Coupling System

plug size 5 mm – material brass 2.0401 **Series ESHMC**

DN2.7



Plug Profile (original size)

Plugs with straight standard hose stem without valve

Hose i. D.	l	d	Stem Length	d1	Passage	Weight/pc g	Type No.
5 mm	25	5	13.5	5	2.7	3	ESHMC 5 SL

Plugs with straight male thread without valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc g	Type No.
M 5 x 0.5	7	18	5	5	2.7	3	ESHMC 505 NA
M 8 x 0.75	9	20	7	5	2.7	4	ESHMC 875 NA

Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc g	Type No.
M 5 x 0.5	9	28	5	5	2.7	7	ESHMC 505 NAAB
M 8 x 0.75	9	30	7	5	2.7	7	ESHMC 875 NAAB

Plugs with 90° male thread without valve

Thread	Hexagon	Thread Length	l	d1	Passage	Weight/pc g	Type No
M 5 x 0.5	9	5	15.5	5	2.7	9	ESHMC 505-NA-90
M 8 x 0.75	9	5	17.5	5	2.7	11	ESHMC 875-NA-90

System-Adaptors

System	l1	l2	l	d1	D2	Passage	Weight/pc g	Type No
DN 2.7-DN 2.7	10	10	22	5	5	2.7	3	ESHMC-ESHMC
DN 2.7-DN 6	10	14	26.5	5	9	2.7	9	ESHMC-ESHM



Temperature Control Quick Connect Coupling System

Series ESHM plug size 9 mm – material brass 2.0401

DN6

European
Plug
Profile

also in
Stainless Steel
Series ESHME
(☺ Page 136)

- For temperature control applications with hot or cold water as well as tempered oil
- Optional with non-valved, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses
- All couplings available with disconnect-protection with surcharge (just add „S“ on Type No.)!
- Detailed Information (☺ page 113)

Materials

- Body, sleeve, valve body, valve, plug: MS 58 brass material 2.0401
- Springs, retaining ring: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	☺
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	6	ISO 228 / DIN 13/DIN 158	yes	free, single, double	couplings 5 / plugs 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	53	17	22.5	9	5	40	ESHM 6 TL	ESHM 6 TLAB
9 mm	53	17	22.5	9	6	45		ESHM 9 TLAB
9 mm	53	17	22.5	9	6	45	ESHM 9 TL	
13 mm	55	17	25	9	6	54	ESHM 13 TL	ESHM 13 TLAB

Couplings with straight quick-fit hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	58.5	17	28	9	5	42	ESHM 6 T	ESHM 6 TAB
10 mm	58.5	17	28	9	6	49	ESHM 10 T	ESHM 10 TAB

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	42.5	17	25.5	9	5	58	ESHM 6 TL-45	ESHM 6 TL-45AB
9 mm	42.5	17	25.5	9	6	62	ESHM 9 TL-45	ESHM 9 TL-45AB

Couplings with 45° quick-fit hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	42.5	17	33	9	5	59	ESHM 6 T-45	ESHM 6 T-45AB
10 mm	42.5	17	33	9	6	68	ESHM 10 T-45	ESHM 10 T-45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	42.5	17	25.5	9	5	58	ESHM 6 TL-90	ESHM 6 TL-90AB
9 mm	42.5	17	25.5	9	6	62	ESHM 9 TL-90	ESHM 9 TL-90AB

Couplings with 90° quick-fit hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	42.5	17	33	9	5	59	ESHM 6 T-90	ESHM 6 T-90AB
10 mm	42.5	17	33	9	6	68	ESHM 10 T-90	ESHM 10 T-90AB

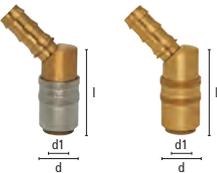
Marking rings for easy and clear identification of quick-fit hose lines

For hose i.D.	Colour	d	☺	Weight/pc. g	Type No.
6	blue	14	50	0.3	AR-BL 6
6	red	14	50	0.3	AR-RO 6
6	yellow	14	50	0.3	AR-GE 6
10	blue	17	50	0.5	AR-BL 10
10	red	17	50	0.5	AR-RO 10
10	yellow	17	50	0.5	AR-GE 10

Simply put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, two-ear clips or crimping ferrules for standard hoses – (☺ catalogue page 172–175)

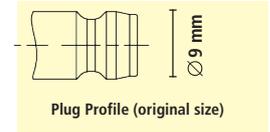
Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!



Temperature Control Quick Connect Coupling System

plug size 9 mm – material brass 2.0401 **Series ESHM**

DN6



Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hexag. I	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	48	17	9	9	6	ESHM 14 A	ESHM 14 AAB
G 3/8"	19	48	17	9	9	6	ESHM 38 A	ESHM 38 AAB
M 10 x 1	17	46	17	7	9	6	ESHM 101 A	ESHM 101 AAB
M 14 x 1.5	17	48	17	9	9	6	ESHM 1415 A	ESHM 1415 AAB
M 16 x 1.5	19	48	17	9	9	6	ESHM 1615 A	ESHM 1615 AAB
G 1/4 "	17	52	17	11	9	6	ESHM 14 AL*	ESHM 14 ALAB*
G 3/8 "	19	52	17	11	9	6	ESHM 38 AL*	ESHM 38 ALAB*
M14 x 1.5	17	52	17	11	9	6	ESHM 1415 AL*	ESHM 1415 ALAB*



Couplings with straight male thread (short version) with valve

Thread	Hexag. I	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. with valve
G 1/4"	17	38	17	9	9	6	ESHM 14 AKAB



Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag. I	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	47	17	9	9	6	ESHM 14 A-45	ESHM 14 A-45AB
G 3/8"	19	47	17	10	9	6	ESHM 38 A-45	ESHM 38 A-45AB
M 10 x 1	17	47	17	7	9	6	ESHM 101 A-45	ESHM 101 A-45AB
M 14 x 1.5	17	47	17	9	9	6	ESHM 1415 A-45	ESHM 1415 A-45AB
M 16 x 1.5	19	47	17	9	9	6	ESHM 1615 A-45	ESHM 1615 A-45AB
G 3/8"	19	47	17	11	9	6	ESHM 38 AL-45*	ESHM 38 AL-45AB*



Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag. I	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	47	17	9	9	6	ESHM 14 A-90	ESHM 14 A-90AB
G 3/8"	19	47	17	9	9	6	ESHM 38 A-90	ESHM 38 A-90AB
M 10 x 1	17	47	17	7	9	6	ESHM 101 A-90	ESHM 101 A-90AB
M 14 x 1.5	17	47	17	9	9	6	ESHM 1415 A-90	ESHM 1415 A-90AB
M 16 x 1.5	19	47	17	9	9	6	ESHM 1615 A-90	ESHM 1615 A-90AB
G 3/8"	19	47	17	11	9	6	ESHM 38 AL-90*	ESHM 38 AL-90AB*



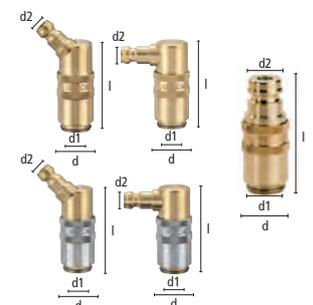
Couplings with straight female thread without/with valve

Thread	Hexag. I	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	41.5	17	9	9	6	ESHM 14 I	ESHM 14 IAB
G 3/8	21	42	17	9	9	6	ESHM 38 I	ESHM 38 IAB
M 10 x 1	17	41.5	17	9	9	6	ESHM 101 I	ESHM 101 IAB
M 14 x 1.5	17	41.5	17	9	9	6	ESHM 1415 I	ESHM 1415 IAB



Couplings DN 6 with plug DN 9 - System Adaptors and ESHM-ESD System adapter.

DN coupling	I	d	d2	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	52	17	13	9	6	75	ESHMK-ESHS	ESHMK-ESHS-AB
6 mm	49	17	13	9	6	80	ESHMK-ESHS-45	ESHMK-ESHS-45AB
6 mm	47	17	13	9	6	80	ESHMK-ESHS-90	ESHMK-ESHS-90AB
6 mm	52	17	9.4	9	6	70	ESHMK-ESDMS	ESHMK-ESDMS-AB
6 mm	52	17	13.5	9	6	75	ESHMK-ESDS	ESHMK-ESDS-AB

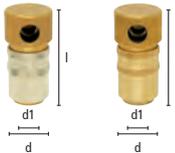
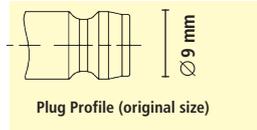


*Version AL with longer male thread mainly used for assembly with Ermeto-screwings.

Temperature Control Quick Connect Coupling System

Series ESHM plug size 9 mm – material brass 2.0401

DN6



Diversion coupling for temperature control bridges with 90° tube connection without/ with valve

Tube o.D./i.D.	l	d	d1	Passage	Weight/pc. g	Type No. w/o Valve	Type No. with Valve
8/6	43	17	9	6	63	ESHM 8-U	ESHM 8-UAB

Tube (chamfered) for diversion couplings (temperature control tube), hardened brass

Tube o.D./i.D.	l	Passage	Weight/pc. g	Type No.
8/6	250	6	45	TR 250-8
8/6	500	6	93	TR 500-8



Blank End Coupling

Connection	l	d	d1	Weight/pc. g	Type No.
closed	30	17	9	37	ESHM-B



Plugs

Plugs with standard hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
6 mm	39.5	22.5	9	5	9	ESHM 6 SL
9 mm	39.5	22.5	9	6	13	ESHM 9 SL
9 mm	51.5	34.5	9	6	21	ESHM 9 SP**
13 mm	39.5	22.5	9	6	17	ESHM 13 SL



Plugs with quick-fit hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
6 mm	44	28	9	5	11	ESHM 6 S
10 mm	44	28	9	6	18	ESHM 10 S



Plugs with straight male thread without valve (inner cone DIN 3863)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	11	24	7	9	6	10	ESHM 18 NA*
G 1/4"	15	26	9	9	6	14	ESHM 14 NA*
G 3/8"	17	27	9	9	6	18	ESHM 38 NA*
M 8 x 0.75	11	24	7	9	4.5	9	ESHM 875 NA
M 10 x 1	11	24	7	9	6	8	ESHM 101 NA
M 14 x 1.5	15	26	9	9	6	14	ESHM 1415 NA
M 16 x 1.5	17	26	9	9	6	18	ESHM 1615 NA



Plugs with straight male thread and inner hexagon without valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Inner Hexag	Type No.
G 1/8"	11	24	7	9	6	10	SW5.19mm depth	ESHM 18 NAIB*
G 1/4"	15	26	9	9	6	14	SW5.19mm depth	ESHM 14 NAIB*
M10 x 1	11	24	7	9	6	8	SW5.19mm depth	ESHM 101 NAIB
M14 x 1.5	15	26	9	9	6	14	SW5.19mm depth	ESHM 1415 NAIB



For easy assembly with Allen key countersunk in the tool

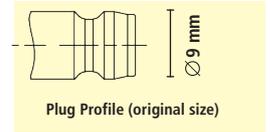
*Plugs with inch thread nickel-plated for simple distinction

**crimping ferrules

Temperature Control Quick Connect Coupling System

plug size 9 mm – material brass 2.0401 **Series ESHM**

DN6



Plugs with straight female thread without valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	14	27	9	9	6	15	ESHM 18 NI*
G 1/4"	17	27	9	9	6	19	ESHM 14 NI*
G 3/8"	19	27	10	9	6	25	ESHM 38 NI



Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
R 1/8"	15	27	9	9	6	35	ESHM 18 NA-90*
R 1/4"	15	29	11	9	6	40	ESHM 14 NA-90*
R 3/8"	17	30	12	9	6	44	ESHM 38 NA-90*
M 8 x 0.75	15	27	9	9	4.5	38	ESHM 875 NA-90
M 10 x 1	15	27	9	9	6	38	ESHM 101 NA-90
M 14 x 1.5	15	29	11	9	6	40	ESHM 1415 NA-90



Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	15	36	8	9	6	13	ESHM 18 NAAB*
G 1/4"	15	29	12	9	6	14	ESHM 14 NAAB*
G 3/8"	17	30	12	9	6	22	ESHM 38 NAAB*
M 14 x 1.5	15	29	12	9	6	15	ESHM 1415 NAAB



Plugs with straight male long thread without valve (for length cutting as needed)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	11	100	(6x10) 60	9	6	36	ESHM 18-60 NA
G 1/4"	14	100	(6x10) 60	9	6	58	ESHM 14-60 NA
G 3/8"	17	100	(6x10) 60	9	6	90	ESHM 38-60 NA
M 10 x 1	11	100	(6x10) 60	9	6	36	ESHM 101-60 NA
M 14 x 1.5	14	100	(6x10) 60	9	6	61	ESHM 1415-60 NA



Plug Tubes for countersunk mould threads

Tube Ø	Hexagon	l	l1	d1	Passage	Weight/pc. g	Type No.
8 mm	9	63	21	9	5	14	ESHM 68 R
8 mm	9	100	21	9	5	20	ESHM 100 R
10 mm	11	63	21	9	6	20	ESHM 68 R10
10 mm	11	100	21	9	6	58	ESHM 100 R10
10 mm	11	120	21	9	6	49	ESHM 120 R
10 mm	11	240	21	9	6	103	ESHM 240 R
10 mm	11	360	21	9	6	157	ESHM 360 R
14 mm	15	150	21	9	6	114	ESHM 150 R-14



System-Adaptors

System	l	l1	l2	d1	d2	d3	Weight/pc. g	Type No.
DN 6 – DN 6	34	14	14	9	6	9	14	ESHM-ESHM
DN 6 – DN 9	34	14	14	9	6	13	18	ESH-ESHM
Protection cap (plastic) for plug profile ESHM							100	ESHM-K



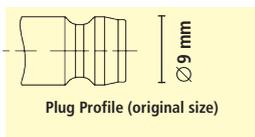
*Plugs with inch thread nickel-plated for simple distinction

NEW!

Temperature Control Quick Connect Coupling System

Series ESHMT – Connector size 9 mm – brass 2.0401 with Automatic Locking Mechanism

DN6



Temp Secure
by **LUDECKE**



- Design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of special brass material
- For temperature control applications with hot or cold water as well as tempered oil
- Optionally available with non-valved, single or double shut-off valves
- Versions with additional O-ring sealing at connection port to prevent leakage with high temperature applications
- Hose couplings with standard hose barb contour or barb contour for crimping corrugated hoses with steel braiding

Material

- Connectors, valve body, valve, plug: MS 58 2.0401 • Locking sleeve: Eco brass
- Spring, retaining ring: stainless steel 1.4310 • Balls: stainless steel 1.4034
- Seals: FKM- O-ring

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	6	ISO 228 / DIN 13	yes	free, single, double	5

Couplings with hose connection

Couplings with straight standard hose barb without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	61	18	22.5	9	6	58	ESHMT 9 TL	ESHMT 9 TLAB
9 mm	73	18	35	9	7	63	ESHMT 9 TP**	ESHMT 9 TPAB**

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	54	18	22.5	9	6	82	ESHMT 9 TL45	ESHMT 9 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	54	18	22.5	9	6	91	ESHMT 9 TL90	ESHMT 9 TL90AB

Couplings with male connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hex.	l	d	Thread L.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	58	18	11	9	6	73	ESHMT14AL	ESHMT14ALAB
M14 x 1.5	17	58	18	11	9	6	76	ESHMT1415AL	ESHMT1415ALAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hex.	l	d	Thread L.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	54	18	11	9	6	85	ESHMT14AL45	ESHMT14AL45AB
M14 x 1.5	17	54	18	11	9	6	87	ESHMT1415AL45	ESHMT1415AL45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread	Hex.	l	d	Thread L.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	54	18	11	9	6	94	ESHMT14AL90	ESHMT14AL90AB
M14 x 1.5	17	54	18	11	9	6	96	ESHMT1415AL90	ESHMT1415AL90AB

Other types / sizes on request!

**crimping ferrules

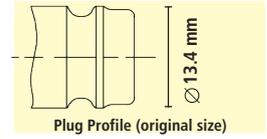


Temperature Control Quick Connect Coupling System

Connector size 13 mm brass 2.0401 with Automatic Locking Mechanism **Series ESHT**

- Design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of special brass material
- **For temperature control applications with hot or cold water as well as tempered oil**
- Optionally available with non-valved, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications
- Hose couplings with standard hose barb contour or barb contour for crimping corrugated hoses with steel brading

DN 9



Temp Secure
by **LUDECKE**



Materials

- Connectors, valve body, valve, plug: MS 58 2.0401 • Locking sleeve: Eco brass
- Spring, retaining ring: stainless steel 1.4310 • Balls: stainless steel 1.4034
- Seals: FKM- O-ring

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	
PN 15 bar	-20°C – +200°C	air / water / oil	9	ISO 228 / DIN 13	yes	free, single, double	5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
13 mm	63	23.5	25	13	9	81	ESHT 13 TL	ESHT 13 TLAB
13 mm	71.5	23.5	35	13	9	90	ESHT 13 TP**	ESHT 13 TPAB**

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
13 mm	55	23.5	25	13	9	138	ESHT 13 TL45	ESHT 13 TL45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
13 mm	55	23.5	25	13	9	140	ESHT 13 TL90	ESHT 13 TL90AB

Couplings with male threads

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	55	23.5	12.5	13	9	94	ESHT38AL	ESHT38ALAB
M16 x 1.5	22	55	23.5	12.5	13	9	93	ESHT1615AL	ESHT1615ALAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	55	23.5	12.5	13	9	134	ESHT38AL45	ESHT38AL45AB
M16 x 1.5	22	55	23.5	12	13	9	132	ESHT1615AL45	ESHT1615AL45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	55	23.5	12.5	13	9	134	ESHT38AL90	ESHT38AL90AB
M16 x 1.5	22	55	23.5	12	13	9	132	ESHT1615AL90	ESHT1615AL90AB

Other types / sizes on request!

**crimping ferrules



Temperature Control Quick Connect Coupling System

Series ESH plug size 13 mm – material brass 2.0401

DN9

European
Plug
Profile

also in
Stainless Steel
Series ESHE
(Page 138)

- For temperature control applications with hot or cold water as well as tempered oil.
- Optional with non-valved, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses.
- All couplings available with disconnect-protection with surcharge (just add „S“ on Type No.)
- Detailed Information(☺ page 113)

Materials

- Body, sleeve, valve body, valve, plugs: MS 58 brass material 2.0401
- Springs, retaining rings: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	☺
PN 15 bar	-20°C – +200°C	air / water / oil	9	ISO 228 / DIN 13	yes	free, single, double	couplings 5 / plugs 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	61.5	22	25	13	7	72	ESH 9 TL	ESH 9 TLAB
13 mm	61.5	22	25	13	9	81		ESH 13 TLAB
13 mm	61.5	22	25	13	9	81	ESH 13 TL	

Couplings with straight quick-fit hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
10 mm	64.5	22	28	13	7	76	ESH 10 T	ESH 10 TAB
13 mm	64.5	22	28	13	9	84	ESH 13 T	ESH 13 TAB

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	51	22	30	13	7	103	ESH 9 TL-45	ESH 9 TL-45AB
13 mm	51	22	30	13	9	109	ESH 13 TL-45	ESH 13 TL-45AB

Couplings with 45° quick-fit hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
10 mm	51	22	33	13	7	108	ESH 10 T-45	ESH 10 T-45AB
13 mm	51	22	33	13	9	111	ESH 13 T-45	ESH 13 T-45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	51	22	30	13	7	105	ESH 9 TL-90	ESH 9 TL-90AB
13 mm	51	22	30	13	9	111	ESH 13 TL-90	ESH 13 TL-90AB

Couplings with 90° quick-fit hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
10 mm	51	22	33	13	7	110	ESH 10 T-90	ESH 10 T-90AB
13 mm	51	22	33	13	9	113	ESH 13 T-90	ESH 13 T-90AB

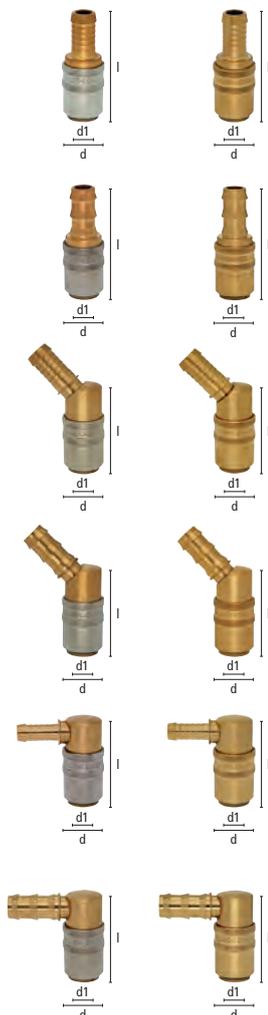
Marking rings for easy and clear identification of quick-fit hose lines

For hose i.D.	Colour	d	☺	Weight/pc. g	Type No.
10 mm	blue	17	50	0.5	AR-BL 10
10 mm	red	17	50	0.5	AR-RO 10
10 mm	yellow	17	50	0.5	AR-GE 10
13 mm	blue	20	50	0.7	AR-BL 13
13 mm	red	20	50	0.7	AR-RO 13
13 mm	yellow	20	50	0.7	AR-GE 13

Simply put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, two-ear clips or crimping ferrules for standard hoses – (☺ catalogue page 172 – 175)

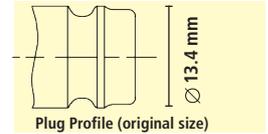
Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!



Temperature Control Quick Connect Coupling System

plug size 13 mm – material brass 2.0401 **Series ESH**

DN9



Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	22	52	22	9	13	9	90	ESH 14 A	ESH 14 AAB
M 14 x 1.5	22	56	22	11	13	9	90	ESH 1415 A	ESH 1415 AAB
G 3/8"	22	52	22	9	13	9	94	ESH 38 A	ESH 38 AAB
M 16 x 1.5	22	52	22	9	13	9	93	ESH 1615 A	ESH 1615 AAB
G 1/2"	24	53	22	10	13	9	95	ESH 12 A	ESH 12 AAB
G 3/8"	22	56	22	11	13	9	105	ESH 38 AL*	ESH 38 ALAB*
G 1/2"	24	57	22	14	13	9	110	ESH 12 AL*	ESH 12 ALAB*
M 16 x 1.5	22	56	22	13	13	9	105	ESH 1615 AL*	ESH 1615 ALAB*



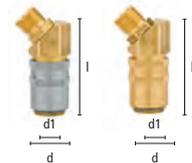
Couplings with straight male thread (short version) with valve

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	38	22	9	13	9	61	ESH 38 AK	ESH 38 AKAB



Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
M 14 x 1.5	22	56	22	11	13	9	114	ESH 1415 A-45	ESH 1415 A-45AB
G 3/8"	22	54	22	9	13	9	114	ESH 38 A-45	ESH 38 A-45AB
M 16 x 1.5	22	54	22	9	13	9	114	ESH 1615 A-45	ESH 1615 A-45AB
G 3/8"	22	58	22	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	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
M 14 x 1.5	22	56	22	11	13	8	126	ESH 1415 A-90	ESH 1415 A-90AB
G 3/8"	22	54	22	9	13	9	126	ESH 38 A-90	ESH 38 A-90AB
M 16 x 1.5	22	54	22	9	13	9	126	ESH 1615 A-90	ESH 1615 A-90AB
G 3/8"	22	58	22	11	13	9	125	ESH 38 AL-90*	ESH 38 AL-90AB*



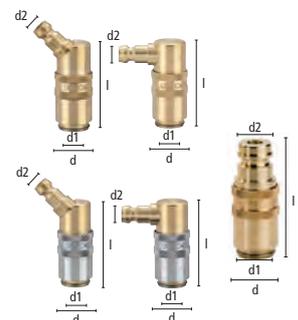
Couplings with straight female thread without/with valve

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	44.5	22	9	13	9	75	ESH 14 I	ESH 14 IAB
G 3/8"	22	46	22	9	13	9	110	ESH 38 I	ESH 38 IAB
G 1/2"	24	49	22	12	13	9	110	ESH 12 I	ESH 12 IAB



Couplings with Plugs DN 9 - ESHM - System Adaptor and ESH-ESD System Adaptor

DN coupling	l	d	d2	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	51	22	9	13	6	100	ESHK-ESHMS	ESHK-ESHMS-AB
9 mm	51	22	9	13	6	100	ESHK-ESHMS-45	ESHK-ESHMS-45AB
9 mm	51	22	9	13	6	100	ESHK-ESHMS-90	ESHK-ESHMS-90AB
9 mm	51	22	9.4	13	6	85	ESHK-ESDMS	ESHK-ESDMS-AB
9 mm	51	22	13.5	13	9	100	ESHK-ESDS	ESHK-ESDS-AB

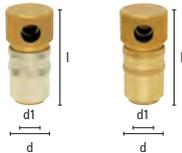
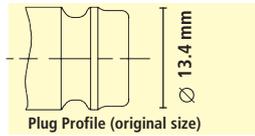


*Version AL with longer male thread mainly used for assembly with Ermeto-screwings

Temperature Control Quick Connect Coupling System

Series ESH plug size 13 mm – material brass 2.0401

DN9



Diversion coupling for temperature control bridges with 90° tube connection without/ with valve

Tube o.D./i.D.	l	d	d1	Passage	Weight/pc. g	Type No. w/o Valve	Type No. with Valve
10/8	53	22	13	8	118	ESH 10-U	ESH 10-UAB

Tube (chamfered) for diversion couplings (temperature control tube), hardened brass

Tube o.D./i.D.	l	Passage	Weight/pc. g	Type No.
10/8	250	8	60	TR 250-10
10/8	500	8	120	TR 500-10

Blank End Coupling

Connection	l	d	d1	Weight/pc. g	Type No.
closed	37	22	13	67	ESH-B

Plugs

Plugs with standard hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
9 mm	39.5	22.5	13	7	23	ESH 9 SL
13 mm	39.5	25	13	9	25	ESH 13 SL
13 mm	53	36	13	9	29	ESH 13 SP**

Plugs with quick-fit hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
10 mm	43.5	28	13	7	24	ESH 10 S
13 mm	43.5	28	13	9	26	ESH 13 S

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	15	24	7	13	6	16	ESH 18 NA*
G 1/4"	15	26	9	13	9	17	ESH 14 NA*
G 3/8"	17	26	9	13	9	22	ESH 38 NA*
G 1/2"	22	31	12	13	9	42	ESH 12 NA*
G 3/4"	27	35	16	13	9	110	ESH 34 NA*
M 10 x 1	15	24	7	13	6.5	14	ESH 101 NA
M 14 x 1.5	15	26	9	13	9	16	ESH 1415 NA
M 16 x 1.5	17	26	9	13	9	20	ESH 1615 NA

Plugs with straight male thread with inner Hexagon without valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	inner hexagon	Type No
G 1/4"	15	26	9	13	9	17	SW8,17mm depth	ESH 14 NAIB*
M14 x 1.5	15	26	9	13	9	16	SW8,17mm depth	ESH 1415 NAIB

For easy assembly with allen with key countersunk in the tool

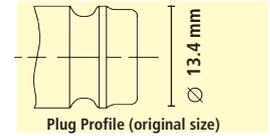
*Plugs with inch thread nickel-plated for simple distinction

**ferrule crimping

Temperature Control Quick Connect Coupling System

plug size 13 mm – material brass 2.0401 **Series ESH**

DN 9



Plugs with straight female thread without valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 3/8"	19	33	10	13	9	42	ESH 38 NI*
G 1/2"	24	35	12	13	9	55	ESH 12 NI*



Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

Thread	Hexagon	l	Thread Length	l2	d1	Passage	Weight/pc. g	Type No.
R 1/4"	17	34	11	25	13	9	45	ESH 14 NA-90*
M 14 x 1.5	17	34	11	25	13	9	47	ESH 1415 NA-90
R 3/8"	17	35	12	25	13	9	45	ESH 38 NA-90*



Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	15	30	11	13	6	24	ESH 14 NAAB*
G 3/8"	17	31	12	13	9	28	ESH 38 NAAB*
G 1/2"	22	31	12	13	9	48	ESH 12 NAAB*
M 14 x 1.5	15	30	11	13	6	26	ESH 1415 NAAB
M 16 x 1.5	17	31	12	13	9	28	ESH 1615 NAAB



Plugs with straight male long thread without valve (for length cutting as needed)

Thread	Hexagon	l	Thread Length	l1	d1	Passage	Weight/pc. g	Type No.
G 1/4"	14	100	(6x10) 60	26	13	9	60	ESH 14-60 NA
G 1/4"	15	57	16	18	13	9	38	ESH 14 NAL 18
G 1/4"	15	110	16	71	13	9	75	ESH 14 NAL 71
G 3/8"	17	100	(6x10) 60	26	13	9	91	ESH 38-60 NA
M 14 x 1.5	14	100	(6x10) 60	26	13	9	55	ESH 1415-60 NA
M 16 x 1.5	17	100	(6x10) 60	26	13	9	93	ESH 1615-60 NA



Plug Tubes for countersunk mould threads

Tube Ø	Hexagon	l	l1	d1	Passage	Weight/pc. g	Type No.
14 mm	15	150	23	13	9	114	ESH 150 R
14 mm	15	300	23	13	9	210	ESH 300 R
10 mm	11	150	23	13	6	65	ESH 150 R-10



System-Adaptors

System	l	l1	l2	d1	d2	d3	Weight/pc. g	Type No.
DN 6 – DN 9	34	14	14	9	6	13	18	ESH-ESHM
DN 9 – DN 9	34	14	14	13	9	13	24	ESH-ESH



Plugs with counterpart system "ARBURG" – system adaptors

System	Thread	l	Thread Length	Hexagon	d1	d2	Passage	Weight/pc. g	Type No.
ESH-Arburg		64			13	14.8	9	77	ESH-ARB
Arburg	G 1/4"	62	9		17	14.8	9	85	ARB 14 NI
Arburg	G 3/8"	62	9		17	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 Control Quick Connect Coupling System

Series ESHG plug size 19 mm – material brass 2.0401

DN 13

European
Plug
Profile

- For temperature control applications with hot or cold water as well as tempered oil.
- Optional with non-valved, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses
- All couplings available with disconnect-protection with a surcharge (just add „S“ on Type No.)
- Detailed Information (☺ catalogue page 113)

Materials

- Body, sleeve, valve body, valve, plugs: MS 58 brass material 2.0401
- Spring, retaining ring: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)
- Plugs: MS 58 brass material 2.0401

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	☺
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	13	ISO 228 / DIN 13	Yes	free, single, double	couplings1 / plugs 5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Length	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
13 mm	83	31	25	19	9	200	ESHG 13 TL	ESHG 13 TLAB
19 mm	92	31	34	19	13	222	ESHG 19 TL	ESHG 19 TLAB

Couplings with quick-fit hose stem without/with valve

Hose i.D.	45°	l	d	Stem Length	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
16 mm	straight	96	31	38	19	13	222	ESHG 16 T	ESHG 16 TAB
16 mm	45°/135°	82	31	38	19	13	320	ESHG 16 T-45	ESHG 16 T-45AB
16 mm	90°	82	31	38	19	13	320	ESHG 16 T-90	ESHG 16 T-90AB
19 mm	straight	96	31	38	19	13	240	ESHG 19 T	ESHG 19 TAB

Couplings with straight hose stem – short version without one-hand principle and without valve

Hose i.D.	Stem Type	l	d	Stem Length	d1	Passage	Weight/pc. g	Type No. w/o valve
16 mm	quick-fit	75	31	38	19	13	163	ESHG 16 TK
19 mm	quick-fit	75	31	38	19	13	180	ESHG 19 TK
19 mm	standard	71	31	34	19	13	170	ESHG 19 TLK

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Length	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
19 mm	78	31	36	19	13	305	ESHG 19 TL-45	ESHG 19 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Length	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
19 mm	78	31	34	19	13	310	ESHG 19 TL-90	ESHG 19 TL-90AB

Marking rings for easy and clear identification of quick-fit hose lines

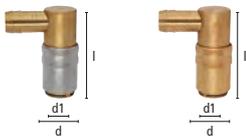
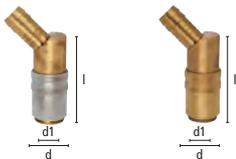
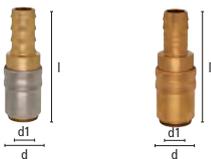
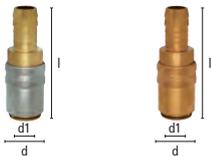
For hose i.D.	Colour	d	☺	Weight/pc. g	Type No.
16 mm	blue	25	50	10	AR-BL 16
16 mm	red	25	50	10	AR-RO 16
16 mm	yellow	25	50	10	AR-GE 16

Simply put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, two-ear clips or crimping ferrules for standard hoses – (☺ catalogue page 172–175)

Further coupling types on request.

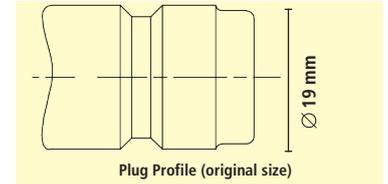
Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!



Temperature Control Quick Connect Coupling System

plug size 19 mm – material brass 2.0401 **Series ESHG**

DN 13



Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hexagon I	d	Thread Length	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/2"	30	74	31	12	19	13	228	ESHG 12 A ESHG 12 AAB
M 24 x 1.5	30	78	31	16	19	13	250	ESHG 2415 A ESHG 2415 AAB
G 3/4"	30	78	31	16	19	13	250	ESHG 34 A ESHG 34 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hexagon I	d	Thread Length	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
M 24 x 1.5	30	80	31	18	19	13	328	ESHG 2415 A-45 ESHG 2415 A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	I	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
M 24 x 1.5	30	80	31	18	19	13	338	ESHG 2415 A-90 ESHG 2415 A-90AB	

Couplings with straight female thread without/with valve

Thread	Hexagon I	d	Thread Length	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/4"	33	78	31	16	19	13	270	ESHG 34 I ESHG 34 IAB

Diversion coupling for temperature control bridges with 90° tube connection without/ with valve

Tube o.D./i.D.	l	d	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
14/12	80	31	19	12	350	ESHG 14-U	ESHG 14-UAB

Tube (chamfered) for diversion couplings (temperature control tube) hardened brass

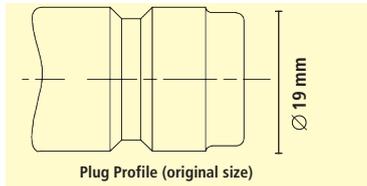
Tube o.D./i.D.	l	d1	Passage	Weight/pc. g	Type No.
14/12	500	14	12	170	TR 500-14



Temperature Control Quick Connect Coupling System

Series ESHG plug size 19 mm – material brass 2.0401

DN 13



Plugs

Plugs with standard hose stem without valve



Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
13 mm	54	25	19	9	52	ESHG 13 SL
19 mm	63	34	19	13	81	ESHG 19 SL

Plugs with quick-fit hose stem without valve



Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
16 mm	67	38	19	13	63	ESHG 16 S
19 mm	67	38	19	13	93	ESHG 19 S

Plugs with straight male thread without valve (inner cone DIN 3863)



Thread	Hexag.	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/2"	22	47	12	19	13	64	ESHG 12 NA
G 3/4"	27	51	16	19	13	107	ESHG 34 NA
M 24 x 1.5	27	51	16	19	13	97	ESHG 2415 NA

Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)



Thread	Hexag.	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
R 1/2"	24	47	16	19	13	100	ESHG 12 NA-90
M 24 x 1.5	24	47	16	19	13	105	ESHG 2415 NA-90

Plugs with straight male thread with valve



Thread	Hexag.	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/2"	22	47	12	19	13	84	ESHG 12 NAAB
G 3/4"	27	51	16	19	13	90	ESHG 34 NAAB
M 24 x 1.5	27	51	16	19	13	86	ESHG 2415 NAAB

Protection cap (plastic) for plug profile ESHG	100	ESHG-K
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Manifolds for Temperature Control lines

made of aluminium (anodised) and stainless steel 1.4401

- Manifolds, aluminium blue and red anodised or stainless steel, for a clearly arranged composition of flow and reflux as close as possible to the mould tool, for a direct assembly to the machine
- Increases the working and production safety through its clearly arranged composition of temperature control lines, saves energy and hose lines because of central inlet of the temperature control medium into the machine
- A central inflow from and outflow to the temperature control tool, as many outlets as necessary to the mould tool because 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", top outlet thread 1/4" for coupling Series DN 6 and DN 9
- Other types / versions on request

Max. work. pressure	Temperature	Material	Threads	Medium	⊗
PN 15 bar	-20°C – +200°C	Alum. anodised/stainless steel 1.4401	ISO 228	water / oil / air / vacuum	1

Aluminium Manifolds

Thread																	
No.	Outlet	inlet															
Outlets	Colour	G1	G	I	B	L1	L2	L3	L4	∅C	A	D	B1	Weight/pc. g	Type No.		
4	blue	G 1/4"	G 3/4"	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	500	VB 34144-190 B		
4	red	G 1/4"	G 3/4"	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	500	VB 34144-190 R		
6	blue	G 1/4"	G 3/4"	266	43.5	151.6	30	41.5	57.2	4.5	41.3	38	31	700	VB 34146-266 B		
6	red	G 1/4"	G 3/4"	266	43.5	151.6	30	41.5	57.2	4.5	41.3	38	31	700	VB 34146-266 R		
8	blue	G 1/4"	G 3/4"	342	43.5	227.6	30	41.5	57.2	4.5	41.3	38	31	900	VB 34148-342 B		
8	red	G 1/4"	G 3/4"	342	43.5	227.6	30	41.5	57.2	4.5	41.3	38	31	900	VB 34148-342 R		
10	blue	G 1/4"	G 3/4"	418	43.5	303.6	30	41.5	57.2	4.5	41.3	38	31	1100	VB 341410-418 B		
10	red	G 1/4"	G 3/4"	418	43.5	303.6	30	41.5	57.2	4.5	41.3	38	31	1100	VB 341410-418 R		



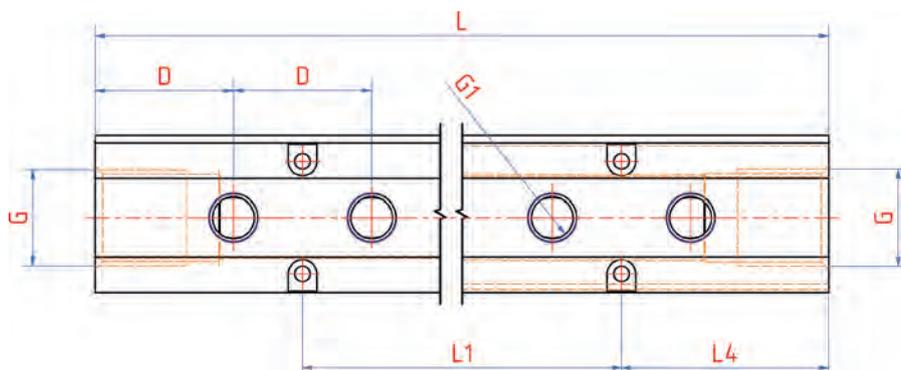
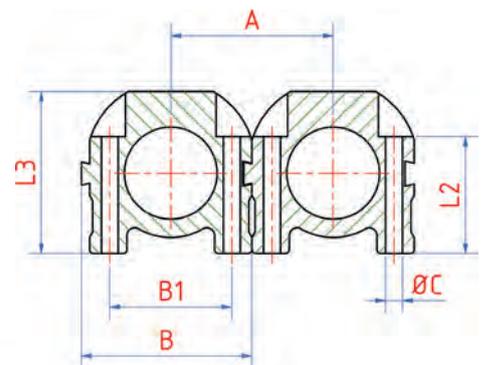
Manifolds of Stainless Steel 1.4401

Thread															
Outlet Inlet															
Outlets	G1	G	I	B	L1	L2	L3	L4	∅C	A	D	B1	Weight/pc. g	Type No.	
4	G 1/4"	G 3/4"	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	1490	VBE 34144-190	

Blank End Plug for Manifolds

Male Thread	Inner Hexagon	Material	Weight/pc. g	⊗	Type No.
G 3/4"	SW 12	MS 58	80	5	VBS-34

3- and 4-way Manifolds of brass – (© catalogue page 100)



Temperature Control Quick Connect Coupling System

Series ESHME plug size 9 mm – material stainless steel 1.4305

DN6

European
Plug
Profile

Stainless
Steel

- For temperature control applications with hot or cold water as well as oil i.e. in clean room production
- Optional with non-valved, single or double shut-off
- All couplings available with disconnect-protection with a surcharge (just add „S“ on Type No.)!

Materials

- Body, sleeve, valve body, valve, plug: stainless steel 1.4305
- Springs, retaining rings: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	6	ISO 228 / DIN 13	yes	free, single, double	couplings 1 / plugs 5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	53	17	22.5	9	6	45	ESHME 9 TL	ESHME 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	42.5	17	25.5	9	6	62	ESHME 9 TL-45	ESHME 9 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	42.5	17	25.5	9	6	62	ESHME 9 TL-90	ESHME 9 TL-90AB

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

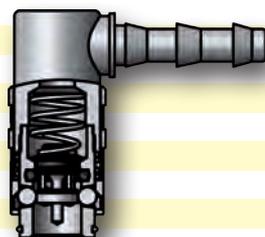
Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	48	17	9	9	6	60	ESHME 14 A	ESHME 14 AAB
M 14 x 1.5	17	48	17	9	9	6	60	ESHME 1415 A	ESHME 1415 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	47	17	9	9	6	65	ESHME 14 A-45	ESHME 14 A-45AB
M 14 x 1.5	17	47	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	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	47	17	9	9	6	75	ESHME 14 A-90	ESHME 14 A-90AB
M 14 x 1.5	17	47	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.

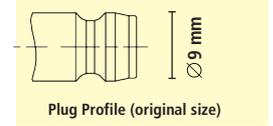
Other types / sizes on request!

Suitable hose clips (☺catalogue page 337), two-ear clips (☺catalogue page 344) or crimping ferrules for standard hoses (☺catalogue page 347)

Temperature Control Quick Connect Coupling System

plug size 9 mm – material stainless steel 1.4305 **Series ESHME**

DN6



Plugs

Plugs with standard hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
9 mm	39.5	22.5	9	6	13	ESHME 9 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	11	24	7	9	6	10	ESHME 18 NA
G 1/4"	15	26	9	9	6	14	ESHME 14 NA
G 3/8"	17	27	9	9	6	18	ESHME 38 NA
M 8 x 0.75	11	24	7	9	4.5	9	ESHME 875 NA
M 10 x 1	11	24	7	9	6	8	ESHME 101 NA
M 14 x 1.5	15	26	9	9	6	14	ESHME 1415 NA
M 16 x 1.5	17	26	9	9	6	18	ESHME 1615 NA

Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	15	29	12	9	6	14	ESHME 14 NAAB
G 3/8"	17	30	12	9	6	22	ESHME 38 NAAB
M 14 x 1,5	15	29	12	9	6	15	ESHME 1415 NAAB

System-Adaptors

System	l	l1	l2	d1	d2	d3	Weight/pc. g	Type No.
DN 6 – DN 6	34	14	14	9	6	9	15	ESHME-ESHME
DN 6 – DN 9	34	14	14	9	6	13	19	ESHME-ESHE

Plug Tubes for countersunk mould threads

Tube∅	Hexagon	l	l1	d1	Passage	Weight/pc. g	Type No.
8 mm	9	63	21	9	6	14	ESHME 63 R
8 mm	9	100	21	9	6	20	ESHME 100 R
10 mm	11	120	21	9	6	49	ESHME 120 R



Temperature Control Quick Connect Coupling System

Series ESHE plug size 13 mm – material stainless steel 1.4305

DN9

European
Plug
Profile

Stainless
Steel

- For temperature control applications with hot or cold water as well as oil i.e. in clean room production
- Optional with non-valved, single or double shut-off
- All couplings available with disconnect-protection with a surcharge (just add „S“ on Type No.)!
- Detailed Information (☺ catalogue page 114)

Materials

- Body, sleeve, valve body, valve, plug: stainless steel 1.4305
- Springs, retaining rings: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	☺
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	9	ISO 228 / DIN 13	yes	free, single, double	couplings 1 / plugs 5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
13 mm	61.5	22	25	13	9	81	ESHE 13 TL	ESHE 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
13 mm	51	22	30	13	9	109	ESHE 13 TL-45	ESHE 13 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
13 mm	51	22	30	13	9	111	ESHE 13 TL-90	ESHE 13 TL-90AB

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	52	22	9	13	9	94	ESHE 38 A	ESHE 38 AAB
M 16 x 1.5	22	52	22	9	13	9	93	ESHE 1615 A	ESHE 1615 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

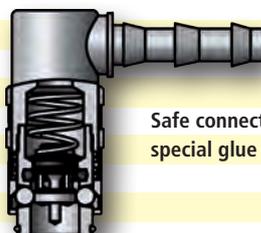
Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	54	22	9	13	9	114	ESHE 38 A-45	ESHE 38 A-45AB
M 16 x 1.5	22	54	22	9	13	9	114	ESHE 1615 A-45	ESHE 1615 A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	54	22	9	13	9	126	ESHE 38 A-90	ESHE 38 A-90AB
M 16 x 1.5	22	54	22	9	13	9	126	ESHE 1615 A-90	ESHE 1615 A-90AB

Couplings with straight female thread without/ with valve

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	44.5	22	9	13	9	102	ESHE 14 I	ESHE 14 IAB
G 3/8"	22	46	22	9	13	9	104	ESHE 38 I	ESHE 38 IAB



Safe connection of individual coupling parts due to special glue and supplementary FKM-O-ring sealing.

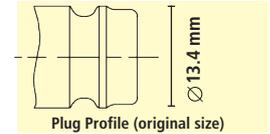
Other types / sizes on request!

Suitable hose clips, two-ear clips or crimping ferrules for standard hoses – (☺ catalogue page 172–175)

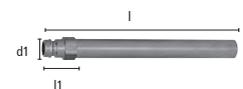
Temperature Control Quick Connect Coupling System

plug size 13 mm – material stainless steel 1.4305 **Series ESHE**

DN 9



Stainless Steel



Plugs

Plugs with standard hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
13 mm	39.5	25	13	9	25	ESHE 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	15	26	9	13	9	17	ESHE 14 NA
G 3/8"	17	26	9	13	9	22	ESHE 38 NA
G 1/2"	22	31	12	13	9	22	ESHE 12 NA
M 14 x 1.5	15	26	9	13	9	16	ESHE 1415 NA
M 16 x 1.5	17	26	9	13	9	20	ESHE 1615 NA

Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	15	30	11	13	9	21	ESHE 14 NAAB
G 3/8"	17	29	12	13	9	23.5	ESHE 38 NAAB
M 16 x 1,5	17	29	12	13	9	23	ESHE 1615 NAAB

System-Adaptors

System	l	l1	l2	d1	d2	d3	Weight/pc. g	Type No.
DN 6 – DN9	34	14	14	9	6	13	19	ESHME-ESHE
DN 9 – DN 9	34	14	14	13	9	13	25	ESHE-ESHE

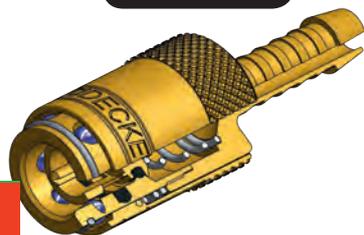
Plug Tubes for countersunk mould threads

Tube∅	Hexagon	l	l1	d1	Passage	Weight/pc. g	Type No.
14 mm	15	150	23	13	9	109	ESHE 150 R

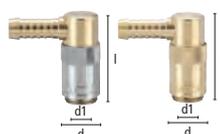
Temperature Control Quick Connect Coupling System

Series ESDM plug size 9.4 mm – material brass 2.0401

DN6



**International
Plug Profile
1/4"**



- Couplings with O-ring-Sealing and One-hand-operation
- For temperature control applications with hot or cold water as well as tempered oil.
- Optional with non-valved, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses (quick-fit profile for quick-fit hoses on request).
- All couplings available with disconnect-protection with a surcharge (just add „S“ on Type No.)!
- Detailed Information (☺ catalogue page 113)

Materials

- Body, sleeve, valve body, valve, plug: MS 58 (2.0401)
- Springs, retaining rings: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	☺
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	6	ISO 228 / DIN 13	yes	free, single, double	couplings 5 / plugs 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	51	17	22.5	9.4	5	40	ESDM 6 TL	ESDM 6 TLAB
9 mm	51	17	22.5	9.4	6	45	ESDM 9 TL	
9 mm	51	17	22.5	9.4	6	45		ESDM 9 TLAB
13 mm	53	17	25	9.4	6	54	ESDM 13 TL	ESDM 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	40.5	17	25.5	9.4	5	58	ESDM 6 TL-45	ESDM 6 TL-45AB
9 mm	40.5	17	25.5	9.4	6	62	ESDM 9 TL-45	ESDM 9 TL-45AB

Couplings with 90° standard hose stem without/with valve

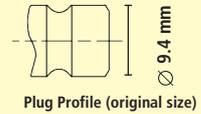
Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	40.5	17	25.5	9.4	5	58	ESDM 6 TL-90	ESDM 6 TL-90AB
9 mm	40.5	17	25.5	9.4	6	62	ESDM 9 TL-90	ESDM 9 TL-90AB

Suitable hose clips, two-ear clips or crimping ferrules for standard hoses – (☺ catalogue page 172 – 175)

Temperature Control Quick Connect Coupling System

plug size 9.4 mm – material brass 2.0401 **Series ESDM**

DN6



Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hexag. I	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	46	17	9	9.4	6	ESDM 14 A	ESDM 14 AAB
G 3/8"	19	46	17	9	9.4	6	ESDM 38 A	ESDM 38 AAB
M 10 x 1	17	44	17	7	9.4	6	ESDM 101 A	ESDM 101 AAB
M 14 x 1.5	17	46	17	9	9.4	6	ESDM 1415 A	ESDM 1415 AAB
M 16 x 1.5	19	46	17	9	9.4	6	ESDM 1615 A	ESDM 1615 AAB
G 1/4 "	17	50	17	13	9.4	6	ESDM 14 AL	ESDM 14 ALAB
G 3/8 "	19	50	17	13	9.4	6	ESDM 38 AL	ESDM 38 ALAB
M14 x 1.5	17	50	17	13	9.4	6	ESDM 1415 AL	ESDM 1415 ALAB

Version AL with longer male thread mainly used for assembly with Ermeto screwings.



Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag. I	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	45	17	9	9.4	6	ESDM 14 A-45	ESDM 14 A-45AB
G 3/8"	19	45	17	9	9.4	6	ESDM 38 A-45	ESDM 38 A-45AB
M 10 x 1	17	45	17	7	9.4	6	ESDM 101 A-45	ESDM 101 A-45AB
M 14 x 1.5	17	45	17	9	9.4	6	ESDM 1415 A-45	ESDM 1415 A-45AB
M 16 x 1.5	19	45	17	9	9.4	6	ESDM 1615 A-45	ESDM 1615 A-45AB



Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag. I	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	45	17	9	9.4	6	ESDM 14 A-90	ESDM 14 A-90AB
G 3/8"	19	45	17	9	9.4	6	ESDM 38 A-90	ESDM 38 A-90AB
M 10 x 1	17	45	17	7	9.4	6	ESDM 101 A-90	ESDM 101 A-90AB
M 14 x 1.5	17	45	17	9	9.4	6	ESDM 1415 A-90	ESDM 1415 A-90AB
M 16 x 1.5	19	45	17	9	9.4	6	ESDM 1615 A-90	ESDM 1615 A-90AB



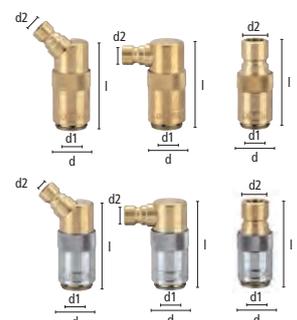
Couplings with straight female thread without/with valve

Thread	Hexag. I	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	40	17	9	9.4	6	ESDM 14 I	ESDM 14 IAB
G 3/8	21	40	17	9	9.4	6	ESDM 38 I	ESDM 38 IAB
M 10 x 1	17	40	17	9	9.4	6	ESDM 101 I	ESDM 101 IAB
M 14 x 1.5	17	40	17	9	9.4	6	ESDM 1415 I	ESDM 1415 IAB



Couplings with plug nipple DN 6 - ESDM and ESDM-ESHM System Adaptors

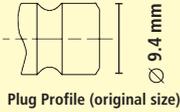
DN coupling	I	d	d2	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	50.5	17	13.5	9.4	6	75	ESDMK-ESDS	ESDMK-ESDS-AB
6 mm	45	17	13.5	9.4	6	80	ESDMK-ESDS-45	ESDMK-ESDS-45 AB
6 mm	45	17	13.5	9.4	6	80	ESDMK-ESDS-90	ESDMK-ESDS-90 AB
6 mm	50	17	9	9.4	6	70	ESDMK-ESHMS	ESDMK-ESHMS-AB
6 mm	50	17	13.4	9.4	6	75	ESDMK-ESHS	ESDMK-ESHS-AB



Temperature Control Quick Connect Coupling System

Series ESDM plug size 9.4 mm – material brass 2.0401

DN6



Diversion coupling for temperature control bridges for tube connection 90° with/without valve

Tube o.D./i.D.	l	d	d1	Passage	Weight/pc. g	Type No. w/o Valve	Type No. w Valve
8/6	41	17	9.4	6	63	ESDM 8-U	ESDM 8-UAB

Tube for diversion couplings (temperature control tube), hardened brass

Tube o.D./i.D.	l	Passage	Weight/pc. g	Type No.
8/6	250	6	45	TR 250-8
8/6	500	6	93	TR 500-8



Blank End Coupling

Connection	l	d	d1	Weight/pc. g	Type No.
closed	30	17	9.4	37	ESDM-B



Plugs

Plugs with standard hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
6 mm	39.5	22.5	9.4	5	9	ESDM 6 SL
9 mm	39.5	22.5	9.4	6	13	ESDM 9 SL
13 mm	39.5	22.5	9.4	6	17	ESDM 13 SL



Plugs with straight male thread without valve (inner cone DIN 3863)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	11	22	8	9.4	6	10	ESDM 18 NA*
R 1/8"	11	25	11	9.4	6	12	ESDM 18 NAR*
G 1/4"	14	23	9	9.4	6	14	ESDM 14 NA*
R 1/4"	14	26	12	9.4	6	16	ESDM 14 NAR*
G 3/8"	17	23.5	9	9.4	6	18	ESDM 38 NA*
M 8 x 0.75	11	20.5	7	9.4	4.5	9	ESDM 875 NA
M 10 x 1	11	22	7	9.4	6	8	ESDM 101 NA
M 14 x 1.5	14	23	9	9.4	6	10	ESDM 1415 NA
M 16 x 1.5	17	23	9	9.4	6	18	ESDM 1615 NA



Plugs with straight female thread without valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	14	22	9	9.4	6	15	ESDM 18 NI*
G 1/4"	17	23	9	9.4	6	19	ESDM 14 NI*
G 3/8"	19	23	10	9.4	6	25	ESDM 38 NI*

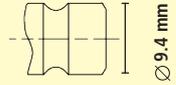


*Plugs with inch thread nickel-plated for simple distinction

Temperature Control Quick Connect Coupling System

plug size 9.4 mm – material brass 2.0401 **Series ESDM**

DN6



Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
R 1/8"	15	27	9	9.4	6	35	ESDM 18 NA-90*
R 1/4"	15	29	11	9.4	6	35	ESDM 14 NA-90*
R 3/8"	17	30	12	9.4	6	35	ESDM 38 NA-90*
M 8 x 0.75	15	27	9	9.4	4.5	38	ESDM 875 NA-90
M 10 x 1	15	27	9	9.4	6	38	ESDM 101 NA-90
M 14 x 1.5	15	29	11	9.4	6	40	ESDM 1415 NA-90



Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	14	25.5	11	9.4	6	14	ESDM 14 NAAB*
R 1/4"	14	28.5	14	9.4	6	18	ESDM 14 NARAB*
G 3/8"	17	26.5	11	9.4	6	22	ESDM 38 NAAB*
M 14 x 1.5	15	25.5	11	9.4	6	15	ESDM 1415 NAAB



Plugs with straight male long thread without valve (for length cutting as needed)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	11	100	(6x10) 60	9.4	6	36	ESDM 18-60 NA
G 1/4"	14	100	(6x10) 60	9.4	6	58	ESDM 14-60 NA
G 3/8"	17	100	(6x10) 60	9.4	6	90	ESDM 38-60 NA
M 10 x 1	11	100	(6x10) 60	9.4	6	36	ESDM 101-60 NA
M 14 x 1.5	14	100	(6x10) 60	9.4	6	61	ESDM 1415-60 NA



Plug Tubes for countersunk mould threads

Tube Ø	Hexagon	l	l1	d1	Passage	Weight/pc. g	Type No.
8 mm	11 mm	63	21	9.4	6	14	ESDM 68 R
8 mm	11 mm	100	21	9.4	6	20	ESDM100 R
10 mm	11 mm	63	21	9.4	6	20	ESDM 68 R10
10 mm	11 mm	100	21	9.4	6	38	ESDM 100 R10
10 mm	11 mm	120	21	9.4	6	49	ESDM 120 R



System-Adaptors

System	l	l1	l2	d1	d2	d3	Weight/pc. g	Type No.
DN 6 – DN 6	27	10.5	10.5	9.4	6	9.4	14	ESDM-ESDM
DN 6 – DN 9	31	15.5	10.5	9.4	6	13.5	18	ESD-ESDM
DN 6 – DN 6	31	10	10.5	9.4	6	9	14	ESDM-ESHM
DN 6 – DN 9	31	14	10.5	9.4	6	13	18	ESDM-ESH
Protection cap (plastic) for plug profile ESDM					100			ESDM-K

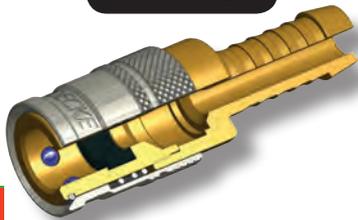


*Plugs with inch thread nickel-plated for simple distinction

Temperature Control Quick Connect Coupling System

Series ESDMF plug size 9.4 mm – material brass 2.0401

DN6



**International
Plug Profile
1/4"**

- Couplings flat-sealing with two-hand-operation
- For temperature control applications with hot or cold water as well as tempered oil.
- Optional with non-valved, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses (quick-fit profile for quick-fit hoses on request).
- Detailed Information (☺ catalogue page 113)

Materials

- Body, sleeve, valve body, valve, plug: MS 58 brass material 2.0401
- Springs, retaining rings: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	☺
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	6	ISO 228 / DIN 13	no	free, single, double	couplings 5 / plugs 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	51	17	22.5	9.4	5	40	ESDMF 6 TL	ESDMF 6 TLAB
9 mm	51	17	22.5	9.4	6	45	ESDMF 9 TL	ESDMF 9 TLAB
13 mm	53	17	25	9.4	6	54	ESDMF 13 TL	ESDMF 13 TLAB

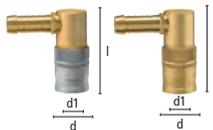
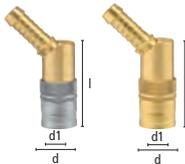
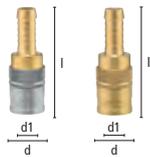
Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	40.5	17	25.5	9.4	5	58	ESDMF 6 TL-45	ESDMF 6 TL-45AB
9 mm	40.5	17	25.5	9.4	6	62	ESDMF 9 TL-45	ESDMF 9 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	40.5	17	25.5	9.4	5	58	ESDMF 6 TL-90	ESDMF 6 TL-90AB
9 mm	40.5	17	25.5	9.4	6	62	ESDMF 9 TL-90	ESDMF 9 TL-90AB

Suitable hose clips, two-ear clips or crimping ferrules for standard hoses (☺ catalogue page 172 – 175)



Temperature Control Quick Connect Coupling System

plug size 9.4 mm – material brass 2.0401 **Series ESDMF**

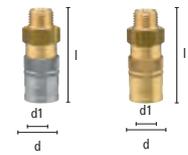
DN 6



Couplings with thread connection

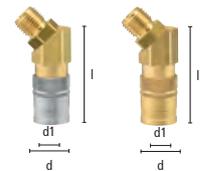
Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thr. Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	46	17	13	9.4	6	60	ESDMF 14 A	ESDMF 14 AAB
G 3/8"	19	46	17	13	9.4	6	70	ESDMF 38 A	ESDMF 38 AAB
M 10 x 1	17	44	17	7	9.4	6	60	ESDMF 101 A	ESDMF 101 AAB
M 14 x 1.5	17	46	17	13	9.4	6	60	ESDMF 1415 A	ESDMF 1415 AAB
M 16 x 1.5	19	46	17	13	9.4	6	70	ESDMF 1615 A	ESDMF 1615 AAB



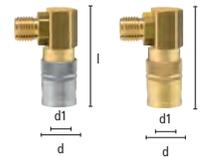
Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thr. Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	45	17	9	9.4	6	65	ESDMF 14 A-45	ESDMF 14 A-45AB
G 3/8"	19	45	17	9	9.4	6	75	ESDMF 38 A-45	ESDMF 38 A-45AB
M 10 x 1	17	45	17	7	9.4	6	65	ESDMF 101 A-45	ESDMF 101 A-45AB
M 14 x 1.5	17	45	17	9	9.4	6	65	ESDMF 1415 A-45	ESDMF 1415 A-45AB
M 16 x 1.5	19	45	17	9	9.4	6	75	ESDMF 1615 A-45	ESDMF 1615 A-45AB



Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thr. Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	45	17	9	9.4	6	75	ESDMF 14 A-90	ESDMF 14 A-90AB
G 3/8"	19	45	17	9	9.4	6	85	ESDMF 38 A-90	ESDMF 38 A-90AB
M 10 x 1	17	45	17	7	9.4	6	75	ESDMF 101 A-90	ESDMF 101 A-90AB
M 14 x 1.5	17	45	17	9	9.4	6	75	ESDMF 1415 A-90	ESDMF 1415 A-90AB
M 16 x 1.5	19	45	17	9	9.4	6	85	ESDMF 1615 A-90	ESDMF 1615 A-90AB



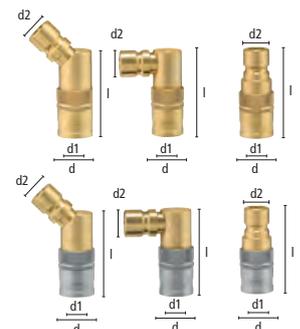
Couplings with straight female thread without/with valve

Thread	Hexag.	l	d	Thr. Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	40	17	9	9.4	6	50	ESDMF 14 I	ESDMF 14 IAB
G 3/8"	21	40	17	9	9.4	6	54	ESDMF 38 I	ESDMF 38 IAB
M 10 x 1	17	40	17	9	9.4	6	50	ESDMF 101 I	ESDMF 101 IAB
M 14 x 1.5	17	40	17	9	9.4	6	50	ESDMF 1415 I	ESDMF 1415 IAB



Couplings with plug nipple DN 6 - ESDMF and ESDMF-ESHM-System Adaptors

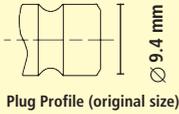
DN coupling	l	d	d2	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
6 mm	50.5	17	13.5	9.4	6	75	ESDMFK-ESDS	ESDMFK-ESDS-AB
6 mm	45	17	13.5	9.4	6	80	ESDMFK-ESDS-45	ESDMFK-ESDS-45AB
6 mm	45	17	13.5	9.4	6	80	ESDMFK-ESDS-90	ESDMFK-ESDS-90AB
6 mm	50	17	9	9.4	6	70	ESDMFK-ESHMS	ESDMFK-ESHMS-AB
6 mm	50	17	13.4	9.4	6	75	ESDMFK-ESHS	ESDMFK-ESHS-AB



Temperature Control Quick Connect Coupling System

Series ESDMF plug size 9.4 mm – material brass 2.0401

DN6



Diversion coupling for temperature control bridges for tube connection 90° with/without valve

Tube o.D./i.D.	l	d	d1	Passage	Weight/pc. g	Type No. w/o Valve	Type No. w Valve
6/8	42	17	9.4	6	63	ESDMF 8-U	ESDMF 8-UAB

Tube (chamfered) for diversion couplings (temperature control tube), hardened brass

Tube o.D./i.D.	l	Passage	Weight/pc. g	Type No.
8/6	250	6	45	TR 250-8
8/6	500	6	93	TR 500-8

Blank End Coupling

Connection	l	d	d1	Weight/pc. g	Type No.
closed	30	17	9.4	37	ESDMF-8

Plugs

Plugs with standard hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
6 mm	39.5	22.5	9.4	5	9	ESDM 6 SL
9 mm	39.5	22.5	9.4	6	13	ESDM 9 SL
13 mm	39.5	22.5	9.4	6	17	ESDM 13 SL

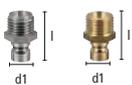
Plugs with straight male thread without valve (inner cone DIN 3863)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	11	22	8	9.4	6	10	ESDM 18 NA*
R 1/8"	11	25	11	9.4	6	12	ESDM 18 NAR*
G 1/4"	14	23	9	9.4	6	14	ESDM 14 NA*
R 1/4"	14	26	12	9.4	6	16	ESDM 14 NAR*
G 3/8"	17	23.5	9	9.4	6	18	ESDM 38 NA*
M 8 x 0.75	11	20.5	7	9.4	4.5	9	ESDM 875 NA
M 10 x 1	11	22	7	9.4	6	8	ESDM 101 NA
M 14 x 1.5	14	23	9	9.4	6	10	ESDM 1415 NA
M 16 x 1.5	17	23	9	9.4	6	18	ESDM 1615 NA

Plugs with straight female thread without valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	14	22	9	9.4	6	15	ESDM 18 NI*
G 1/4"	17	23	9	9.4	6	19	ESDM 14 NI*
G 3/8"	19	23	10	9.4	6	25	ESDM 38 NI*

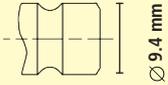
*Plugs with inch thread nickel-plated for simple distinction



Temperature Control Quick Connect Coupling System

plug size 9.4 mm – material brass 2.0401 **Series ESDMF**

DN6



Plug Profile (original size)

Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
R 1/8"	15	27	9	9.4	6	35	ESDM 18 NA-90*
R 1/4"	15	29	11	9.4	6	35	ESDM 14 NA-90*
R 3/8"	17	30	12	9.4	6	35	ESDM 38 NA-90*
M 8 x 0.75	15	27	9	9.4	4.5	38	ESDM 875 NA-90
M 10 x 1	15	27	9	9.4	6	38	ESDM 101 NA-90
M 14 x 1.5	15	29	11	9.4	6	40	ESDM 1415 NA-90



Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	14	25.5	11	9.4	6	14	ESDM 14 NAAB*
R 1/4"	14	28.5	14	9.4	6	18	ESDM 14 NARAB*
G 3/8"	17	26.5	11	9.4	6	22	ESDM 38 NAAB*
M 14 x 1.5	15	25.5	11	9.4	6	15	ESDM 1415 NAAB



Plugs with straight male long thread without valve (for length cutting as needed)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	11	100	(6x10) 60	9.4	6	36	ESDM 18-60 NA
G 1/4"	14	100	(6x10) 60	9.4	6	58	ESDM 14-60 NA
G 3/8"	17	100	(6x10) 60	9.4	6	90	ESDM 38-60 NA
M 10 x 1	11	100	(6x10) 60	9.4	6	36	ESDM 101-60 NA
M 14 x 1.5	14	100	(6x10) 60	9.4	6	61	ESDM 1415-60 NA



Plug Tubes for countersunk mould threads

Tube Ø	Hexagon	l	l1	d1	Passage	Weight/pc. g	Type No.
8 mm	11 mm	63	21	9.4	6	14	ESDM 68 R
8 mm	11 mm	100	21	9.4	6	20	ESDM100 R
10 mm	11 mm	63	21	9.4	6	20	ESDM 68 R10
10 mm	11 mm	100	21	9.4	6	38	ESDM 100 R10
10 mm	11 mm	120	21	9.4	6	49	ESDM 120 R



System-Adaptors

System	l	l1	l2	d1	d2	d3	Weight/pc. g	Type No.
DN 6 – DN 6	27	10.5	10.5	9.4	6	9.4	14	ESDM-ESDM
DN 6 – DN 9	31	15.5	10.5	9.4	6	13.5	18	ESD-ESDM
DN 6 – DN 6	31	10	10.5	9.4	6	9	14	ESDM-ESHM
DN 6 – DN 9	31	14	10.5	9.4	6	13	18	ESDM-ESH
Protection cap (plastic) for plug profile ESDM							100	ESDM-K

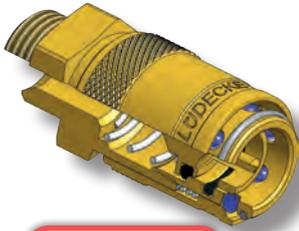


*Plugs with inch thread nickel-plated for simple distinction

Temperature Control Quick Connect Coupling System

Series ESD plug size 13.5 mm – material brass 2.0401

DN9



**International
Plug Profile
3/8"**



- Couplings with O-ring-sealing and one-hand operation
- For temperature control applications with hot or cold water as well as tempered oil.
- Optional with non-valved, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses (quick-fit profile for quick-fit hoses on request).
- All couplings available with disconnect-protection with a surcharge (just add „S“ on Type No.)!
- Detailed Information (☺ catalogue page 113)

Materials

- Body, sleeve, valve body, valve, plugs: MS 58 brass material 2.0401
- Spring, retaining ring: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	☺
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	9	ISO 228 / DIN 13	yes	free, single, double	couplings 5 / plugs 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	61.5	22	25	13.5	7	72	ESD 9 TL	ESD 9 TLAB
13 mm	61.5	22	25	13.5	9	81	ESD 13 TL	
13 mm	61.5	22	25	13.5	9	81		ESD 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	51	22	30	13.5	7	103	ESD 9 TL-45	ESD 9 TL-45AB
13 mm	51	22	30	13.5	9	109	ESD 13 TL-45	ESD 13 TL-45AB

Couplings with 90° standard hose stem without/with valve

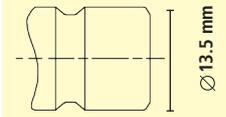
Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	51	22	30	13.5	7	105	ESD 9 TL-90	ESD 9 TL-90AB
13 mm	51	22	30	13.5	9	111	ESD 13 TL-90	ESD 13 TL-90AB

Suitable hose clips, two-ear clips or crimping ferrules for standard hoses (☺ catalogue page 172 – 175)

Temperature Control Quick Connect Coupling System

plug size 13.5 mm – material brass 2.0401 **Series ESD**

DN 9



Plug Profile (original size)

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	22	52	22	9	13.5	9	90	ESD 14 A	ESD 14 AAB
G 3/8"	22	52	22	9	13.5	9	94	ESD 38 A	ESD 38 AAB
M 16 x 1.5	22	52	22	9	13.5	9	93	ESD 1615 A	ESD 1615 AAB
G 1/2"	24	53	22	10	13.5	9	95	ESD 12 A	ESD 12 AAB
G 3/8"	22	52	22	11	13.5	9	94	ESD 38 AL	ESD 38 ALAB
M 16 x 1.5	22	52	22	11	13.5	9	105	ESD 1615 AL	ESD 1615 ALAB
G 1/2"	24	54.5	22	12	13.5	9	110	ESD 12 AL	ESD 12 ALAB

Version AL with longer male thread mainly used for assembly with Ermeto-screwings.



Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	54	22	9	13.5	9	114	ESD 38 A-45	ESD 38 A-45AB
M 16 x 1.5	22	54	22	9	13.5	9	114	ESD 1615 A-45	ESD 1615 A-45AB
G 3/8"	22	54	22	11	13.5	9	125	ESD 38 AL-45	ESD 38 AL-45AB

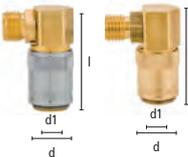
Version AL with longer male thread mainly used for assembly with Ermeto-screwings.



Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	54	22	9	13.5	9	126	ESD 38 A-90	ESD 38 A-90AB
M 16 x 1.5	22	54	22	9	13.5	9	126	ESD 1615 A-90	ESD 1615 A-90AB
G 3/8"	22	54	22	11	13.5	9	125	ESD 38 AL-90	ESD 38 AL-90AB

Version AL with longer male thread mainly used for assembly with Ermeto-screwings.



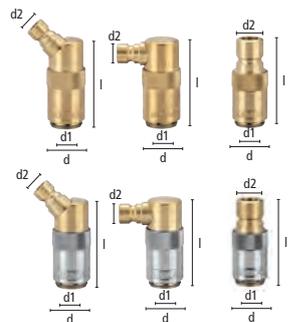
Couplings with straight female thread without/with valve

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	44.5	22	9	13.5	9	75	ESD 14 I	ESD 14 IAB
G 3/8"	22	46	22	9	13.5	9	84	ESD 38 I	ESD 38 IAB
G 1/2"	24	49	22	12	13.5	9	110	ESD 12 I	ESD 12 IAB



Couplings with plug DN 6 - ESHM - Sytem Adaptor and ESH-ESD System Adaptor

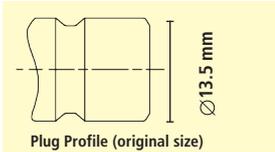
DN coupling	l	d	d2	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	48	22	9.4	13.5	6	85	ESDK-ESDMS	ESDK-ESDMS-AB
9 mm	54	22	9.4	13.5	6	100	ESDK-ESDMS-45	ESDK-ESDMS-45AB
9 mm	54	22	9.4	13.5	6	100	ESDK-ESDMS-90	ESDK-ESDMS-90AB
9 mm	51	22	9	13.5	6	85	ESDK-ESHMS	ESDK-ESHMS-AB
9 mm	51	22	13	13.5	9	100	ESDK-ESHS	ESDK-ESHS-AB



Temperature Control Quick Connect Coupling System

Series ESD plug size 13.5 mm – material brass 2.0401

DN9



Diversion coupling for temperature control bridges for tube connection 90° with/without valve

Tube o.D./i.D.	l	d	d1	Passage	Weight/pc. g	Type No. w/o Valve	Type No. w Valve
10/8	53	17	13.4	8	118	ESD 10-U	ESD 10-UAB

Tube for diversion couplings (temperature control tube), hardened brass

Tube o.D./i.D.	l	Passage	Weight/pc. g	Type No.
10/8	250	8	60	TR 250-10
10/8	500	8	120	TR 500-10

Blank End Coupling

Connection	l	d	d1	Weight/pc. g	Type No.
closed	37	22	13.5	67	ESD-B

Plugs

Plugs with standard hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
6 mm	41	22.5	13.5	5	20	ESD 6 SL
9 mm	41	22.5	13.5	7	23	ESD 9 SL
13 mm	43.5	25	13.5	9	25	ESD 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	15	27	7	13.5	6	16	ESD 18 NA*
G 1/4"	15	29	9	13.5	9	17	ESD 14 NA*
R 1/4"	15	32	12	13.5	9	21	ESD 14 NAR*
G 3/8"	17	29	9	13.5	9	22	ESD 38 NA*
R 3/8"	17	32	12	13.5	9	26	ESD 38 NAR*
G 1/2"	22	32	12	13.5	9	42	ESD 12 NA*
G 3/4"	27	36.5	16	13.5	9	77	ESD 34 NA*
M 10 x 1	15	27	7	13.5	6.5	14	ESD 101 NA
M 14 x 1.5	15	29	9	13.5	9	16	ESD 1415 NA
M 16 x 1.5	17	29	9	13.5	9	20	ESD 1615 NA

Plugs with straight female thread without valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	17	27	9	13.5	9	21	ESD 14 NI*
G 3/8"	22	27.5	10	13.5	9	32	ESD 38 NI*
G 1/2"	24	29.5	12	13.5	9	55	ESD 12 Ni*

Plugs with 90° male thread without valve (metrical thread DIN 158 / conical thread DIN 2999)

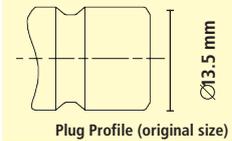
Thread	Hexagon	l	Thread Length	l2	d1	Passage	Weight/pc. g	Type No.
R 1/4"	17	35.5	11	26.5	13.5	9	45	ESD 14 NA-90*
M 14 x 1.5	17	35.5	11	26.5	13.5	9	47	ESD 1415 NA-90
R 3/8"	17	35.5	12	26.5	13.5	9	45	ESD 38 NA-90*

*Plugs with inch thread nickel-plated for simple distinction

Temperature Control Quick Connect Coupling System

plug size 13.5 mm – material brass 2.0401 **Series ESD**

DN 9



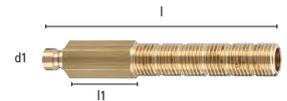
Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	15	30	9.5	13.5	6	24	ESD 14 NAAB*
G 3/8"	17	31	10.5	13.5	9	28	ESD 38 NAAB*
R 3/8"	17	34	13.5	13.5	9	32	ESD 38 NARAB*
M 14 x 1.5	15	30	9.5	13.5	6	26	ESD 1415 NAAB
M 16 x 1.5	17	31	10.5	13.5	9	28	ESD 1615 NAAB



Plugs with straight male long thread without valve (for length cutting as needed)

Thread	Hexagon	l	Thread Length	l1	d1	Passage	Weight/pc. g	Type No.
G 1/4"	14	100	(6x10) 60	26	13.5	9	60	ESD 14-60 NA
G 1/4"	15	57	16	18	13.5	9	38	ESD 14 NAL 18
G 1/4"	15	110	16	71	13.5	9	75	ESD 14 NAL 71
G 3/8"	17	100	(6x10) 60	26	13.5	9	91	ESD 38-60 NA
M 14 x 1.5	14	100	(6x10) 60	26	13.5	9	55	ESD 1415-60 NA
M 16 x 1.5	17	100	(6x10) 60	26	13.5	9	93	ESD 1615-60 NA



Plug Tubes for countersunk mould threads

Tube	Hexagon	l	l1	d1	Passage	Weight/pc. g	Type No.
14 mm	15	150	23	13.5	9	114	ESD 150 R



System-Adaptors

System	l	l1	l2	d1	d2	d3	Weight/pc. g	Type No.
DN 6-DN 9	31	14	14	9.4	6	13.5	18	ESD-ESDM
DN 9-DN 9	34	14	14	13.5	9	13.5	24	ESD-ESD
DN 9-DN9	34	14	14	13	9	13.5	24	ESH-ESD



Protection cap (plastic) for plug profile ESD	100	ESD-K
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*Plugs with inch thread nickel-plated for simple distinction

Temperature Control Quick Connect Coupling System

Series **ESDF** plug size 13.5 mm – material brass 2.0401

DN9

- Couplings with flat-sealing with two-hand operation
- For temperature control applications with hot or cold water as well as oil.
- Optional with non-valved, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses (quick-fit profile for quick-fit hoses on request).
- Detailed Information (© catalogue page 113)

Materials

- Body, sleeve, valve body, valve, plugs: MS 58 brass material 2.0401
- Spring, retaining ring: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

International
Plug Profile
3/8"

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	9	ISO 228 / DIN 13	no	free, single, double	couplings 5 / plugs 10

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	61.5	22	25	13.5	7	72	ESDF 9 TL	ESDF 9 TLAB
13 mm	61.5	22	25	13.5	9	81	ESDF 13 TL	ESDF 13 TLAB

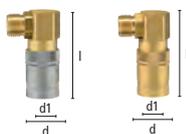
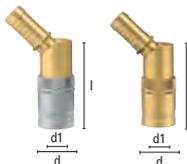
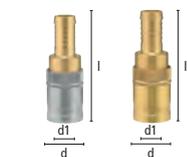
Couplings with 45°/ 135° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	51	22	30	13.5	7	103	ESDF 9 TL-45	ESDF 9 TL-45AB
13 mm	51	22	30	13.5	9	109	ESDF 13 TL-45	ESDF 13 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	51	22	30	13.5	7	105	ESDF 9 TL-90	ESDF 9 TL-90AB
13 mm	51	22	30	13.5	9	111	ESDF 13 TL-90	ESDF 13 TL-90AB

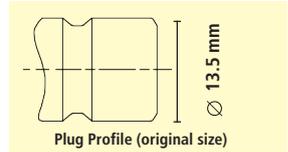
Suitable hose clips, two-ear clips or crimping ferrules for standard hoses (© catalogue page 172 –175)



Temperature Control Quick Connect Coupling System

plug size 13.5 mm – material brass 2.0401 **Series ESDF**

DN9



Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thr Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	22	52	22	9	13.5	9	90	ESDF 14 A	ESDF 14 AAB
G 3/8"	22	52	22	11	13.5	9	94	ESDF 38 A	ESDF 38 AAB
G 1/2"	24	53	22	12	13.5	9	95	ESDF 12 A	ESDF 12 AAB
M 16 x 1.5	22	52	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	Hexag.	l	d	Thr Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	54	22	11	13.5	9	114	ESDF 38 A-45	ESDF 38 A-45AB
M 16 x 1.5	22	54	22	11	13.5	9	114	ESDF 1615 A-45	ESDF 1615 A-45AB

Couplings with 90° male thread without/with valve (inner cone DIN 3863)

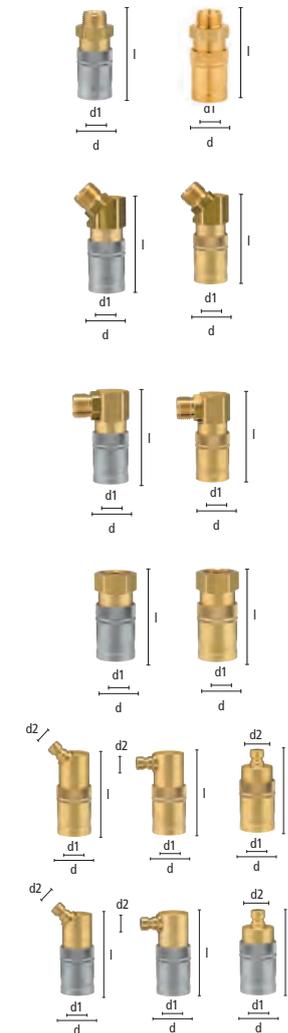
Thread	Hexag.	l	d	Thr Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	54	22	11	13.5	9	126	ESDF 38 A-90	ESDF 38 A-90AB
M 16 x 1.5	22	54	22	11	13.5	9	126	ESDF 1615 A-90	ESDF 1615 A-90AB

Couplings with straight female thread without/with valve

Thread	Hexag.	l	d	Thr Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	44.5	22	9	13.5	9	75	ESDF 14 I	ESDF 14 IAB
G 3/8"	22	46	22	9	13.5	9	84	ESDF 38 I	ESDF 38 IAB
G 1/2"	24	49	22	12	13.5	9	110	ESDF 12 I	ESDF 12 IAB

Couplings with plug DN 6 - ESHM - Sytem Adaptor and ESH-ESDF System Adaptor

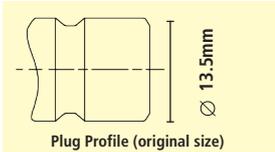
DN coupling	l	d	d2	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	48	22	9.4	13.5	6	85	ESDFK-ESDFMS	ESDFK-ESDFMS-AB
9 mm	54	22	9.4	13.5	6	100	ESDFK-ESDFMS-45	ESDFK-ESDFMS-45AB
9 mm	54	22	9.4	13.5	6	100	ESDFK-ESDFMS-90	ESDFK-ESDFMS-90AB
9 mm	51	22	9	13.5	6	85	ESDFK-ESHMS	ESDFK-ESHMS-AB
9 mm	51	22	13	13.5	9	100	ESDFK-ESHS	ESDFK-ESHS-AB



Temperature Control Quick Connect Coupling System

Series ESDF plug size 13.5 mm – material brass 2.0401

DN9



Diversion coupling for temperature control bridges for tube connection 90° with/without valve

Tube o.D./i.D.	l	d	d1	Passage	Weight/pc. g	Type No. w/o Valve	Type No. w Valve
10/8	58	22	13.5	8	118	ESDF 10-U	ESDF 10-UAB

Tube for diversion couplings (temperature control tube), hardened brass

Tube o.D./i.D.	l	Passage	Weight/pc. g	Type No.
10/8	250	8	60	TR 250-10
10/8	500	8	120	TR 500-10

Blank End Coupling

Connection	l	d	d1	Weight/pc. g	Type No.
closed	37	22	13.5	67	ESDF-B

Plugs

Plugs with standard hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
6 mm	41	22.5	13.5	5	20	ESD 6 SL
9 mm	41	22.5	13.5	7	23	ESD 9 SL
13 mm	43.5	25	13.5	9	25	ESD 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	15	27	7	13.5	6	16	ESD 18 NA*
G 1/4"	15	29	9	13.5	9	17	ESD 14 NA*
R 1/4"	15	32	12	13.5	9	21	ESD 14 NAR*
G 3/8"	17	29	9	13.5	9	22	ESD 38 NA*
R 3/8"	17	32	12	13.5	9	26	ESD 38 NAR*
G 1/2"	22	32	12	13.5	9	42	ESD 12 NA*
G 3/4"	27	36.5	16	13.5	9	77	ESD 34 NA*
M 10 x 1	15	27	7	13.5	6.5	14	ESD 101 NA
M 14 x 1.5	15	29	9	13.5	9	16	ESD 1415 NA
M 16 x 1.5	17	29	9	13.5	9	20	ESD 1615 NA

Plugs with straight female thread without valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	17	27	9	13.5	9	21	ESD 14 NI*
G 3/8"	22	27.5	10	13.5	9	32	ESD 38 NI*
G 1/2"	24	29.5	12	13.5	9	55	ESD 12 Ni*

Plugs with 90° male thread without valve (metrical thread DIN 158 / conical thread DIN 2999)

Thread	Hexagon	l	Thread Length	l2	d1	Passage	Weight/pc. g	Type No.
R 1/4"	17	35.5	11	26.5	13.5	9	45	ESD 14 NA-90*
M 14 x 1.5	17	35.5	11	26.5	13.5	9	47	ESD 1415 NA-90
R 3/8"	17	35.5	12	26.5	13.5	9	45	ESD 38 NA-90*

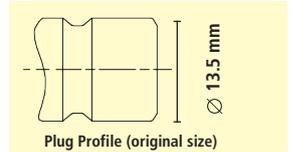
*Plugs with inch thread nickel-plated for simple distinction



Temperature Control Quick Connect Coupling System

plug size 13.5 mm – material brass 2.0401 **Series ESDF**

DN 9



Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	15	30	9.5	13.5	6	24	ESD 14 NAAB*
G 3/8"	17	31	10.5	13.5	9	28	ESD 38 NAAB*
R 3/8"	17	34	13.5	13.5	9	32	ESD 38 NARAB*
M 14 x 1.5	15	30	9.5	13.5	6	26	ESD 1415 NAAB
M 16 x 1.5	17	31	10.5	13.5	9	28	ESD 1615 NAAB



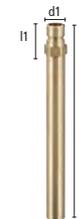
Plugs with straight male long thread without valve (for length cutting as needed)

Thread	Hexagon	l	Thread Length	l1	d1	Passage	Weight/pc. g	Type No.
G 1/4"	14	100	(6x10) 60	26	13.5	9	60	ESD 14-60 NA
G 1/4"	15	57	16	18	13.5	9	38	ESD 14 NAL 18
G 1/4"	15	110	16	71	13.5	9	75	ESD 14 NAL 71
G 3/8"	17	100	(6x10) 60	26	13.5	9	91	ESD 38-60 NA
M 14 x 1.5	14	100	(6x10) 60	26	13.5	9	55	ESD 1415-60 NA
M 16 x 1.5	17	100	(6x10) 60	26	13.5	9	93	ESD 1615-60 NA



Plug Tubes for countersunk mould threads

Tube	Hexagon	l	l1	d1	Passage	Weight/pc. g	Type No.
14 mm	15	150	23	13.5	9	114	ESD 150 R



System-Adaptors

System	l	l1	l2	d1	d2	d3	Weight/pc. g	Type No.
DN 6-DN 9	31	14	14	9.4	6	13.5	18	ESD-ESDM
DN 9-DN 9	34	14	14	13.5	9	13.5	24	ESD-ESD
DN 9-DN9	34	14	14	13	9	13.5	24	ESH-ESD



Protection cap (plastic) for plug profile ESD	100	ESD-K
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*Plugs with inch thread nickel-plated for simple distinction

Temperature Control Quick Connect Coupling System

Series **RPL 06** **RPL 08** **RPL 12** ORIGINAL

STÄUBLI

Ensure safety and guarantee performance at all times

Hot or cold water circuits. Temperature control of moulds on injection presses.

Safe locking, quickly checked

With a strengthened locking system the security of the circuits is made more reliable. The locked position is instantly visible by the coloured ring on the plug.



Colored ring hidden:
coupling not fully home!

Colored ring visible:
safety ensured!

3 diameters to support your production

The RPL range with its clear bore combines excellent flow with a compact design. RPL connectors come in three sizes RPL 06, 08 and 12 and cover all the flow volumes required for mould temperature control.



Socket and plug marking

Easy circuit identification

Thanks to the identification of sockets and plugs by coloured rings, circuit identification is quick and easy. The rings can also serve to number the circuits (on the socket side).



Socket side:
blue or red ring

Plug side:
blue or red ring

Free circulation of fluids

Thanks to the clear bore design, the risk of scale formation is eliminated and the circulation flow protected.

Immediate connection

The design and built quality of the teflon-coated male threaded straight sockets guarantees effective and immediate connection.

Strong enough for any test!



Ease of connection and disconnection

Thanks to the knurled locking ring making it easier to grip the plug, connection and disconnection can be done with one hand, and in record time. In a compact RPL connection installation a shoulder (RPL 08 and RPL 12) or groove (RPL 06) on the locking ring enables a tool to be used in complete safety.



Possibility of using a tool – knurled locking ring

Simplified maintenance

Seal replacement is quick and easy. It is done in record time and has no effect on your productivity.



For existing moulds: slightly proud fitting

For new moulds: flush fitting



- Easy mould storage
- No risk of damage to the sockets

Temperature Control Quick Connect Coupling System

Series **RPL 06** **RPL 08** **RPL 12**

ORIGINAL

STÄUBLI



Construction

- Socket in nickel-plated brass, with PTFE pre-applied (straight male threaded sockets)
- Plug and extension in nickel-plated brass
- Seal in nitrile (NBR) and other seals on request
- Springs and balls in 18/8 stainless steel
- RPL 06: 6 balls
- RPL 08 and 12: 8 balls

Performance enhancing extensions

Monobloc sturdy and rigid nickel-plated brass socket extensions fit easily onto the molds. They are available in various lengths to suit your installations, and can be adjusted to match any layout.

Threaded finish (RPL 08)

- 3 lengths available in G 1/8
- 4 lengths available in G 1/4

Smooth finish

- RPL 06: 1 length
- RPL 08: 4 lengths
- RPL 12: 3 lengths

Construction

Calibrated work hardened brass tube

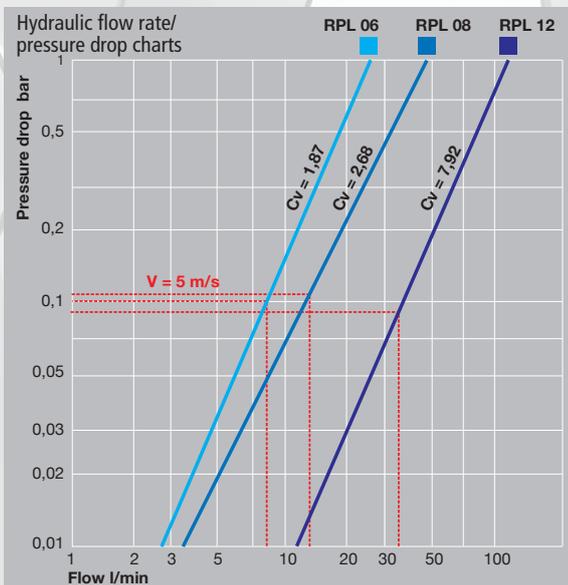
Thick wall monobloc construction for high strength and stiffness.



Easy and efficient at all levels with high productivity

Sockets and plugs / Technical characteristics

	RPL 06	RPL 08	RPL 12
Bore diameter (in)	6	7.5	12
Max. working pressure (bar)	10	10	10
Working temperatures (°C)	-15° to + 90°C*	-15° to + 90°C*	-15° to + 90°C*
Medium	Water	Water	Water



Bridge pieces to rationalize your assemblies

- Reduction in the number of flow meters
- Ease of maintenance
- Reduced size



- Use with RPL 08 non threaded plug
- Tube supply length: 1 meter

Construction

- Calibrated work hardened brass tube

Flexibility of assembly

With their functionality, our bridge pieces can enhance your performance.

NEW!

Temperature Control Quick Connect Coupling System

ORIGINAL **STÄUBLI**

RPL 06

- Temperature control of mould tools for injection moulding
- For temperature control applications with hot or cold water
- Non valved (free circulation guaranteed) with high flow rate and compact design
- Easy circuit identification
- Sockets with tapered male threads and Teflon coating guarantee self-sealing and immediate effective sealing
- Safe and fast controlled connection through coloured rings

Materials

- Couplings and plugs: nickel-plated brass
- Springs, retaining ring: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: Nitrile (NBR), FKM O-rings also available on request

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off
PN 10 bar	-15°C – +90° C	Water	6	DIN 2999 / ISO 228 / DIN 13	yes	no

Straight socket with tapered male thread and self-sealing Teflon coating

F Thread	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight/pc. g	Type No. red	Type No. blue
R 1/8"	17	18.5	7.5	14	28.5	1.5	6	14.7	RPL 06.1150/KR	RPL 06.1150/KB
R 1/4"	17	15.5	11	14	28.5	1.5	6	18.4	RPL 06.1151/KR	RPL 06.1151/KB

Straight socket with metric male thread

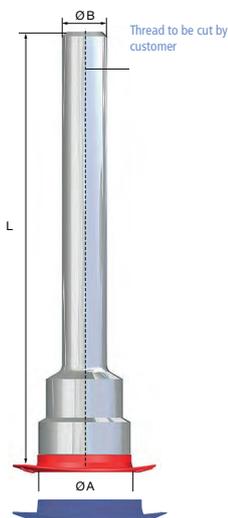
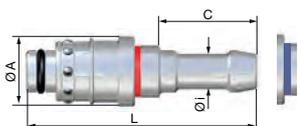
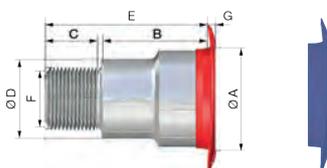
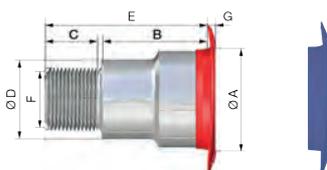
F Thread	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight/pc. g	Type No. red	Type No. blue
M 10 x 1	17	18.5	8	14	28.5	1.5	6	15.4	RPL 06.1410/KR	RPL 06.1410/KB

Plug with standard hose stem

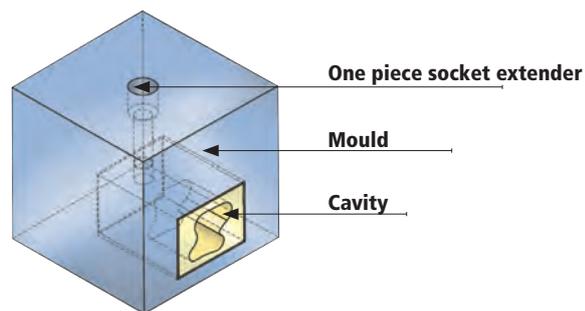
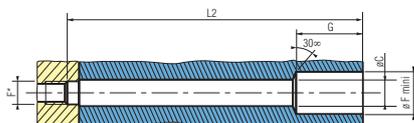
Hose i.D.	Øi	ØA	B	C	Weight/pc. g	Type No. red	Type No. blue
8 mm	8	17	55	23	31.2	RPL 06.6808/KR	RPL 06.6808/KB

Extended socket: smooth version

Thread	L	ØA	ØB	L2	G	ØC	ØFmin	Inner-ØHex.	Weight/pc. g	Type No. red	Type No. blue
R 1/8"	33/100	17	10.2	L-5.5	20	11	18.5	6	48.9	RPL061010100KRR	RPL061010100KBR



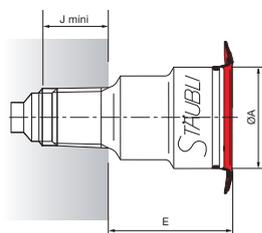
Installation of the sockets extenders into the mould



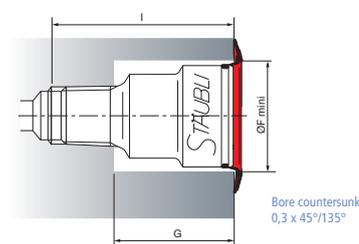
Installation dimensions for the socket into the mould

Thread	ØA	E	Jmin.	ØFmin.	G	I	Inner-ØHex.
G 1/8"	17	20	10	18.5	20.5	29.5	6
G 1/4"	17	18	13	18.5	18.5	30.5	6

Proud socket



Flush socket



Temperature Control Quick Connect Coupling System

ORIGINAL STÄUBLI

RPL 08

- Temperature control of mould tools for injection moulding
- For temperature control applications with hot or cold water
- Non valved (free circulation guaranteed) with high flow rate and compact design
- Easy circuit identification
- Sockets with tapered male threads and Teflon coating guarantee self-sealing and immediate effective sealing
- Safe and fast controlled connection through coloured rings

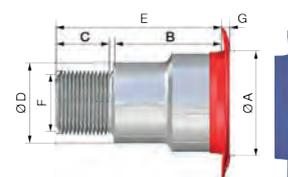
Materials

- Couplings and plugs: nickel-plated brass
- Springs, retaining ring: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: Nitrile (NBR), FKM O-rings also available on request

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off
PN 10 bar	-15°C – +90°C	Water	7.5	DIN 2999 / ISO 228 / DIN 13	optional	no

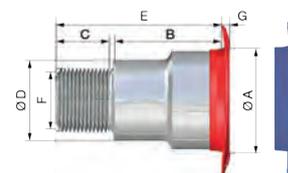
Straight socket with tapered male thread and self-sealing Teflon coating

F Thread	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight/pc. g	Type No. Red	Type No. Blue
R 1/8"	21	22	8	17.5	32	1.5	6	27.6	10 RPL 08.1150/KR	RPL 08.1150/KB
R 1/4"	21	21	10	17.5	33	1.5	8	29.1	10 RPL 08.1151/KR	RPL 08.1151/KB
R 3/8"	21	11	11	-	24	1.5	8	22.3	10 RPL 08.1152/KR	RPL 08.1152/KB



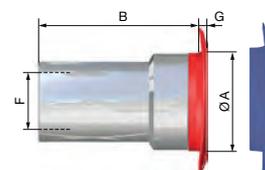
Straight socket with metric male thread

F Thread	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight/pc. g	Type No. Red	Type No. Blue
M 10 x 1	21	22	8	17.5	32	1.5	6	28.7	10 RPL 08.1410/KR	RPL 08.1410/KB
M 10 x 1.5	21	22	8	17.5	32	1.5	6	27.1	10 RPL 08.1411/KR	RPL 08.1411/KB
M 14 x 1.5	21	21	8	17.5	32	1.5	8	29.4	10 RPL 08.1414/KR	RPL 08.1414/KB



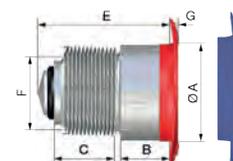
Straight socket with cylindrical female thread

F Thread	ØA	B	G	Inner-ØHex.	Weight/pc. g	Type No. Red	Type No. Blue
G 1/8"	21	35	1.5	6	44.7	10 RPL 08.1100/KR	RPL 08.1100/KB
G 1/4"	21	39	1.5	8	43.8	10 RPL 08.1101/KR	RPL 08.1101/KB



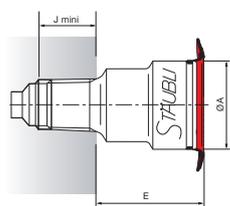
Straight socket with tapered male thread with valve

F Thread	ØA	B	C	E	G	Weight/pc. g	Type No. Red	Type No. Blue
R 3/8"	21	11	16	29	1.5	26.3	10 RPL0811520NJVKR	RPL0811520NJVKB

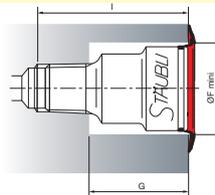


Installation dimensions for the socket into the mould

Thread	ØA	E	Jmin.	ØFmin.	G	I	Inner-ØHex.
G 1/8"	21	23	10	22.5	24	33	6
G 1/4"	21	22	12	22.5	23	34	8
G 3/8"	21	12	13	22.5	13	25	8



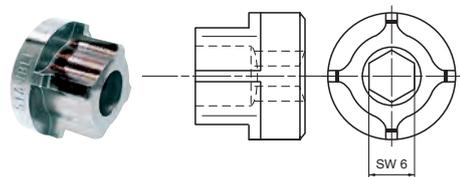
Proud socket



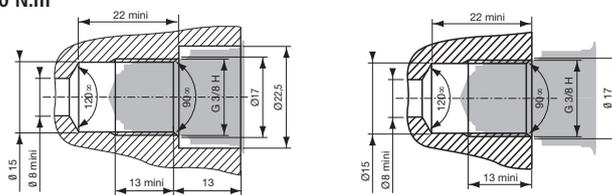
Flush socket

Installation tool for RPL 08/ON sockets

Weight/pc. g	Type No
1 18.0	RPL 08.9000



Installation dimensions of the RPL 08/ON socket into the mould max. tightening torque: 15 to 20 N.m

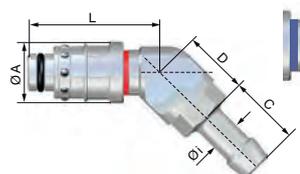
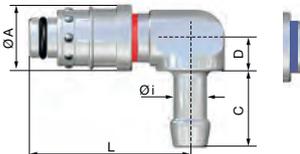
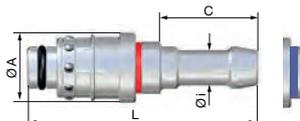
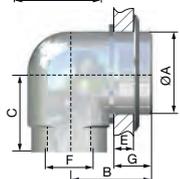
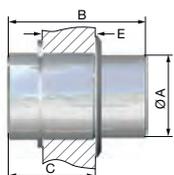
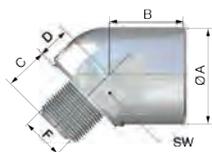
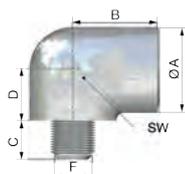


NEW!

Temperature Control Quick Connect Coupling System

ORIGINAL STÄUBLI

RPL 08



Socket 90° with tapered male thread

F Thread	ØA	B	C	D	SW	Weight/pc. g	☐	Type No.
R 1/8"	22	22	10	13	19	72.3	1	RPL 08.1150RE
R 1/4"	22	22	12	13	19	74.3	1	RPL 08.1151RE
R 3/8"	22	22	13	13	19	80.0	1	RPL 08.1152RE

Socket 45°/135° with tapered male thread

F Thread	ØA	B	C	D	Hex.	Weight/pc. g	☐	Type No.
R 1/8"	22	18.5	10	6.5	19	49.4	1	RPL 08.1150RO
R 1/4"	22	18.5	12	4.5	19	47.4	1	RPL 08.1151RO
R 3/8"	22	18.5	12	4.5	19	60.3	1	RPL 08.1152RO

Panel/plate mounted straight socket

ØA	B	C	E max.	Hex.	Weight/pc. g	☐	Type No.
22	35	23	10	19	57.9	1	RPL 08.2000

Panel/plate mounted socket 90° with cylindrical female thread

F Thread	ØA	B	C	E max.	G	Weight/pc. g	☐	Type No. Blue
G 1/4"	22	22	21	6.5	10	78.7	1	RPL 08.2101RE

Straight plug for standard hose stem

Hose i.D.	Øi	A	L	C	Weight/pc. g	☐	Type No. Red	Type No. Blue
6 mm	6	20	66	28	49.5	1	RPL 08.6806/KR	RPL 08.6806/KB
8 mm	8	20	66	28	50.9	1	RPL 08.6808/KR	RPL 08.6808/KB
10 mm	10	20	66	28	53.1	1	RPL 08.6810/KR	RPL 08.6810/KB
13 mm	12.5	20	66	28	62.3	1	RPL 08.6812/KR	RPL 08.6812/KB

Plug 90° for standard hose stem

Hose i.D.	Øi	ØA	L	C	D	Weight/pc. g	☐	Type No. Red	Type No. Blue
6 mm	6	20	48.5	28	23.5	115.0	1	RPL 08.6806REKR	RPL 08.6806REKB
8 mm	8	20	48.5	23	23.5	117.4	1	RPL 08.6808REKR	RPL 08.6808REKB
10 mm	10	20	48.5	23	10	97.3	1	RPL 08.6810REKR	RPL 08.6810REKB
13 mm	12.5	20	48.5	28	10	103.9	1	RPL 08.6812REKR	RPL 08.6812REKB

Plug 45°/135° for standard hose stem

Hose i.D.	Øi	ØA	B	C	D	Weight/pc. g	☐	Type No. Red	Type No. Blue
6 mm	6	20	43	28	21	106.1	1	RPL 08.6806ROKR	RPL 08.6806ROKB
8 mm	8	20	43	23	21	106.7	1	RPL 08.6808ROKR	RPL 08.6808ROKB
10 mm	10	20	43	23	21	107.4	1	RPL 08.6810ROKR	RPL 08.6810ROKB
13 mm	12.5	20	43	28	21	120.0	1	RPL 08.6812ROKR	RPL 08.6812ROKB

Temperature Control Quick Connect Coupling System

ORIGINAL STÄUBLI

NEW!

RPL 08

Straight plug with quick fit hose stem for self-locking hoses

Hose i.D.	Øi	ØA	L	C	Øj	Weight/pc. g	☐	Type No. Red	Type No. Blue
10 mm	3/8"	20	62	24.5	19.5	50.9	1	RPL 08.6810CNKR	RPL 08.6810CNKB
13 mm	1/2"	20	69	29	23.5	59.6	1	RPL 08.6813CNKR	RPL 08.6813CNKB

Plug 90° with quick fit hose stem for self-locking hoses

Hose i.D.	Øi	ØA	L	C	D	Øj	Weight/pc. g	☐	Type No. Red	Type No. Blue
10 mm	3/8"	20	48.5	24.5	23.5	19.5	117.3	1	RPL086810CNREKR	RPL086810CNREKB
13 mm	1/2"	20	48.5	29	25.5	23.5	127.0	1	RPL086813CNREKR	RPL086813CNREKB

Plug 45°/135° with quick fit hose stem for self-locking hoses

Hose i.D.	Øi	ØA	L	C	D	Øj	Weight/pc. g	☐	Type No. Red	Type No. Blue
10 mm	3/8"	20	43	24.5	21	19.5	106.3	1	RPL086810CNROKR	RPL086810CNROKB
13 mm	1/2"	20	43	29	23	23.5	116.4	1	RPL086813CNROKR	RPL086813CNROKB

Straight plug female with cylindrical thread

F Thread	ØA	L	Weight/pc. g	☐	Type No. Red	Type No. Blue
G 1/4"	20	48.5	48.6	1	RPL 08.6101/KR	RPL 08.6101/KB

Plug 90° female cylindrical thread

F Thread	ØA	L	C	E	Weight/pc. g	☐	Type No. Red	Type No. Blue
G 1/4"	20	48.5	16.5	31	89.6	1	RPL 08.6101REKR	RPL 08.6101REKB

Plug 45°/135° with cylindrical female thread

F Thread	ØA	L	C	D	Weight/pc. g	☐	Type No. Red	Type No. Blue
G 1/4"	20	43	14	27.5	81.2	1	RPL 08.6101ROKR	RPL 08.6101ROKB

RPL 08 bridge socket for temperature control bridges 90°

For tube OD	ØA	L	C	Weight/pc. g	☐	Type No. Blue
11 mm	20	59	17	95.9	1	RPL 08.6000RE

Tube	Weight/pc. g	☐	Art.Nr.
Available tube length: 1 metre	39.11	1	R 113 910 00

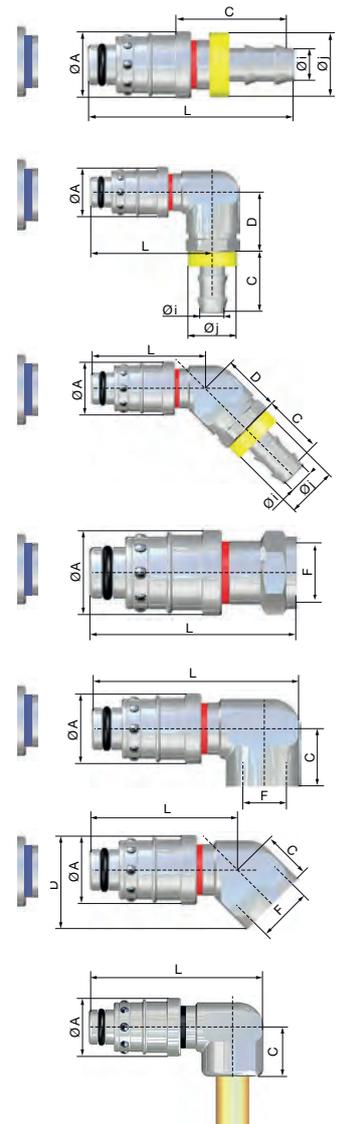
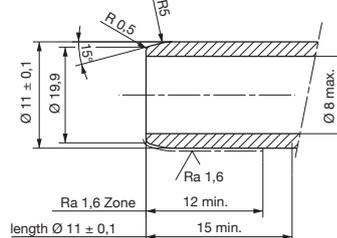
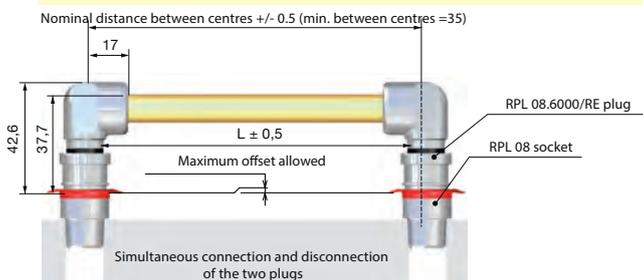
Tube preparation

Maximum admissible offset allowed = Nominal distance between centres x 0.02

Machining of the ends

Tube length: L = (Nominal distance between centres - 10) ± 0.5

E.g.: if the nominal between centres distance = 100 mm: L = (100 - 10) ± 0.5 = 90 ± 0.5

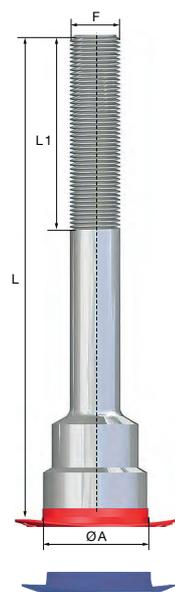
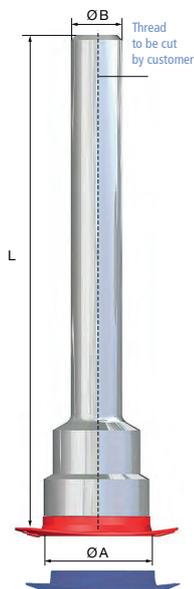


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Temperature Control Quick Connect Coupling System

ORIGINAL STÄUBLI

RPL 08



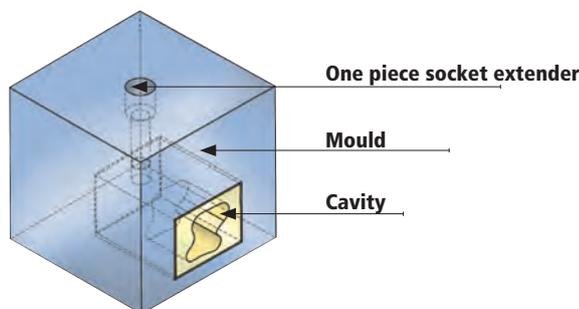
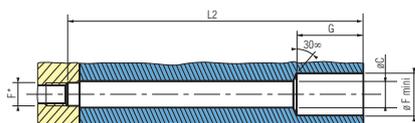
Monobloc extended socket: with smooth finish

Thread	L	ØA	ØB	L2	G	ØC	ØFmin	Hex.	Weight/pc. g	Inner-		
										Type No. Red	Type No. Blue	
R 1/8"	33/100	21	10.2	L-5.5	23	11	22.5	6	10	1	RPL081010100KRR	RPL081010100KBR
R 1/8"	100/150	21	10.2	L-5.5	23	11	22.5	6	10	1	RPL081010150KRR	RPL081010150KBR
R 1/8"	150/200	21	10.2	L-5.5	23	11	22.5	6	10	1	RPL081010200KRR	RPL081010200KBR
R 1/8"	200/250	21	10.2	L-5.5	23	11	22.5	6	10	1	RPL081010250KRR	RPL081010250KBR
R 1/4"	34/100	21	13.5	L-7.5	23	14	22.5	8	30	1	RPL081011100KRR	RPL081011100KBR
R 1/4"	100/150	21	13.5	L-7.5	23	14	22.5	8	30	1	RPL081011150KRR	RPL081011150KBR
R 1/4"	150/200	21	13.5	L-7.5	23	14	22.5	8	30	1	RPL081011200KRR	RPL081011200KBR
R 1/4"	200/250	21	13.5	L-7.5	23	14	22.5	8	30	1	RPL081011250KRR	RPL081011250KBR

Monobloc extended socket with cylindrical male threads

Thread	L	L1	Øa	L2	G	ØC	ØFmin	Hex.	Weight/pc. g	Inner-		
										Type No. Red	Type No. Blue	
G 1/8"	34/50	26	21	L-5.5	23	11	22.5	6	31.3	1	RPL08101050KRRF	RPL08101050KBRF
G 1/8"	50/100	60	21	L-5.5	23	11	22.5	6	46.6	1	RPL81010100KRRF	RPL81010100KBRF
G 1/8"	100/150	60	21	L-5.5	23	11	22.5	6	65.7	1	RPL81010150KRRF	RPL81010150KBRF
G 1/4"	38.5/50	26.5	21	L-7.5	23	14	22.5	8	38.3	1	RPL08101150KRRF	RPL08101150KBRF
G 1/4"	55/100	60	21	L-7.5	23	14	22.5	8	68.2	1	RPL81011100KRRF	RPL81011100KBRF
G 1/4"	105/150	60	21	L-7.5	23	14	22.5	8	102.0	1	RPL81011150KRRF	RPL81011150KBRF
G 1/4"	155/200	60	21	L-7.5	23	14	22.5	8	137.0	1	RPL81011200KRRF	RPL81011200KBRF

Installation of the sockets extenders into the mould



Temperature Control Quick Connect Coupling System

ORIGINAL STÄUBLI

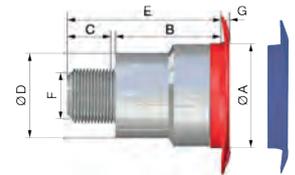
RPL 12

- Temperature control of mould tools for injection moulding
- For temperature control applications with hot or cold water
- Non valved (free circulation guaranteed) with high flow rate and compact design
- Easy circuit identification
- Sockets with tapered male threads and Teflon coating guarantee self-sealing and immediate effective sealing
- Safe and fast controlled connection through coloured rings

Materials

- Couplings and plugs: Nickel-plated brass
- Springs, retaining ring: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: Nitrile (NBR), FKM O-rings also available on request

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off
PN 10 bar	-15°C – +90° C	Water	12	DIN 2999 / ISO 228 / DIN 13	yes	no



Straight socket with tapered male thread and self-sealing Teflon coating

F Thread	ØA	B	C	ØD	E	G	Inner-Hex.	Weight/pc. g	g	Type No. Red	Type No. Blue
R 3/8"	32	28	11	25	41	2	10	66.8	1	RPL 12.1152/KR	RPL 12.1152/KB
R 1/2"	32	28	14	25	44	2	14	72.1	1	RPL 12.1153/KR	RPL 12.1153/KB
R 3/4"	32	13	16.5	-	32	2	14	63.0	1	RPL 12.1154/KR	RPL 12.1154/KB

Monobloc extended sockets: smooth finish

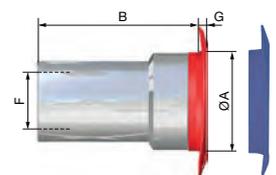
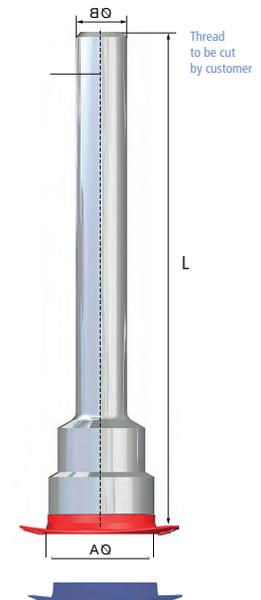
Thread	L	Inner-								Type No. Red	Type No. Blue	
		ØA	ØB	L2	G	ØC	ØFmin	Hex.	Weight/pc. g			
R 3/8"	56/150	32	17.2	L-8.5	43	18	33.5	14	196.2	1	RPL121002150KRR	RPL 12.1002150KBR
R 3/8"	150/200	32	17.2	L-8.5	43	18	33.5	14	245.7	1	RPL121002200KRR	RPL 12.1002200KBR
R 3/8"	200/250	32	17.2	L-8.5	43	18	33.5	14	288.0	1	RPL121002250KRR	RPL 12.1002250KBR
R 1/2"	59/150	32	21.3	L-11.5	45	22	33.5	14	309.0	1	RPL121003150KRR	RPL 12.1003150KBR
R 1/2"	150/200	32	21.3	L-11.5	45	22	33.5	14	411.6	1	RPL121003200KRR	RPL 12.1003200KBR
R 1/2"	200/250	32	21.3	L-11.5	45	22	33.5	14	514.9	1	RPL121003250KRR	RPL 12.1003250KBR

Socket with straight cylindrical female thread

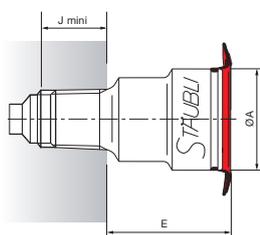
F Thread	ØA	B	G	Inner-Hex.	Weight/pc. g	g	Type No. Red	Type No. Blue
G 3/8"	32	49	1.5	12	108.2	1	RPL 12.1102/KR	RPL 12.1102/KB
G 1/2"	32	50	1.5	12	93.7	1	RPL 12.1103/KR	RPL 12.1103/KB

Installation dimensions for the socket

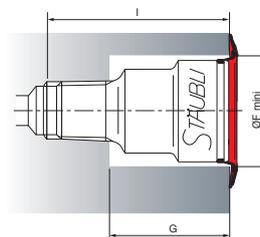
Thread	ØA	E	Jmin.	ØFmin.	G	I	Inner-Hex.
G 3/8"	32	29	13	33.5	30	42	10
G 1/2"	32	30	15	33.5	31	45	14
G 3/4"	32	15	18	33.5	20	36	14



Proud socket



Flush socket

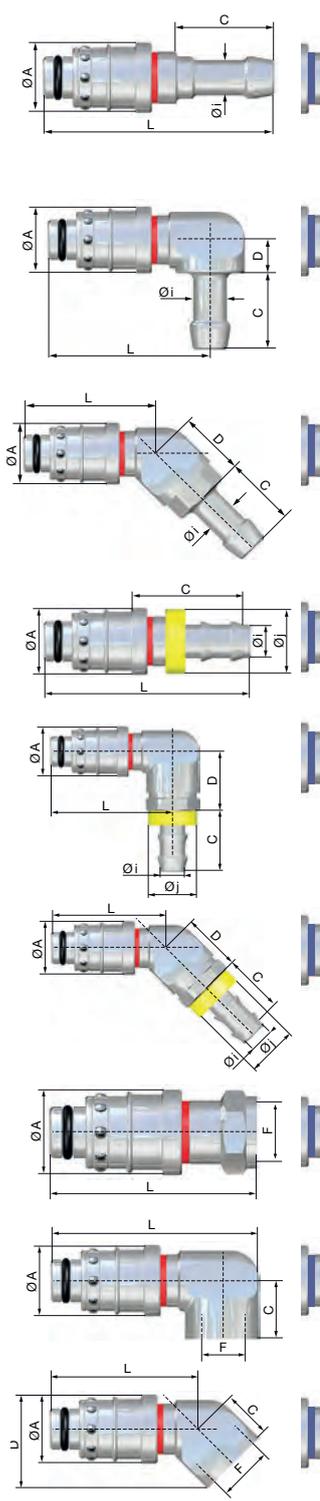


NEW!

Temperature Control Quick Connect Coupling System

ORIGINAL STÄUBLI

RPL 12



Straight plug with standard hose stem

Hose i.D.	Øi	ØA	L	C	Weight/pc. g	⊞	Type No. Red	Type No. Blue
13 mm	13	28	78	33	129.9	1	RPL 12.6813/KR	RPL 12.6813/KB
16 mm	16	28	78	33	129.9	1	RPL 12.6816/KR	RPL 12.6816/KB

Plug 90° with standard hose stem

Hose i.D.	Øi	ØA	L	C	D	Weight/pc. g	⊞	Type No. Red	Type No. Blue
13 mm	13	28	75.5	33	27	129.9	1	RPL 12.6813REKR	RPL 12.6813REKB
16 mm	16	28	75.5	33	27	139.5	1	RPL 12.6816REKR	RPL 12.6816REKB

Plug 45°/135° with standard hose stem

Hose i.D.	Øi	ØA	L	C	D	Weight/pc. g	⊞	Type No. Red	Type No. Blue
13 mm	13	28	72	33	24	243.3	1	RPL 12.6813ROKR	RPL 12.6813ROKB
16 mm	16	28	72	33	24	255.9	1	RPL 12.6816ROKR	RPL 12.6816ROKB

Straight plug with quick fit hose stem for self-locking hoses

Hose i.D.	Øi	ØA	L	C	Øj	Weight/pc. g	⊞	Type No. Red	Type No. Blue
13 mm	1/2"	28	74	29	23.5	233.2	1	RPL 12.6813CNKR	RPL 12.6813CNKB
16 mm	5/8"	28	81.5	36.5	27	245.9	1	RPL 12.6816CNKR	RPL 12.6816CNKB

Plug 90° with quick fit hose stem for self locking hoses

Hose i.D.	Øi	ØA	L	C	D	Øj	Weight/pc. g	⊞	Type No. Red	Type No. Blue
13 mm	1/2"	28	75.5	29	30.5	23.5	126.7	1	RPL126813CNREKR	RPL126813CNREKB
16 mm	5/8"	28	75.5	36.5	30	27	143.2	1	RPL126816CNREKR	RPL126816CNREKB

Plug 45°/135° with quick fit hose stem for self-locking hoses

Hose i.D.	Øi	ØA	L	C	D	Øj	Weight/pc. g	⊞	Type No. Red	Type No. Blue
13 mm	1/2"	28	72	29	27.5	23.5	246.3	1	RPL126813CNROKR	RPL126813CNROKB
16 mm	5/8"	28	72	36.5	27	27	256.6	1	RPL126816CNROKR	RPL126816CNROKB

Straight plug with cylindrical female thread

F Thread	ØA	L	Weight/pc. g	⊞	Type No. Red	Type No. Blue
G 1/2"	28	61	136.6	1	RPL 12.6103/KR	RPL 12.6103/KB

Plug 90° female cylindrical thread

F Thread	ØA	L	C	E	Weight/pc. g	⊞	Type No. Red	Type No. Blue
G 3/8"	28	75.5	20	52.9	199.2	1	RPL 12.6102REKR	RPL 12.6102REKB

Plug 45°/135° with cylindrical female thread

F Thread	ØA	L	C	D	Weight/pc. g	⊞	Type No. Red	Type No. Blue
G 3/8"	28	72	17	33	188.1	1	RPL 12.6102ROKR	RPL 12.6102ROKB

Temperature Control Quick Connect Coupling System

ORIGINAL STÄUBLI

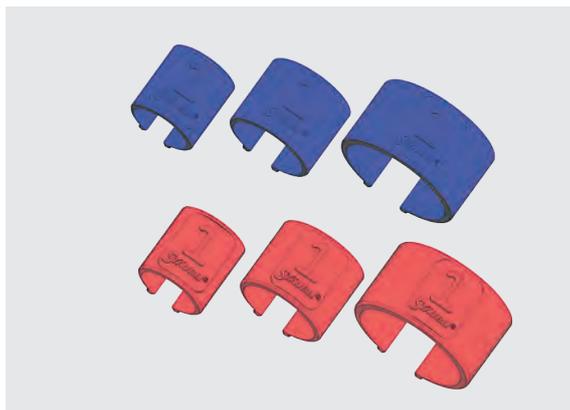
Replacement Nitril seal for plug



Packaging: sachets of 10

Model		Type No.
RPL 06	10	R 603 507 11
RPL 08	10	R 600 007 11
RPL 12	10	R 600 011 10

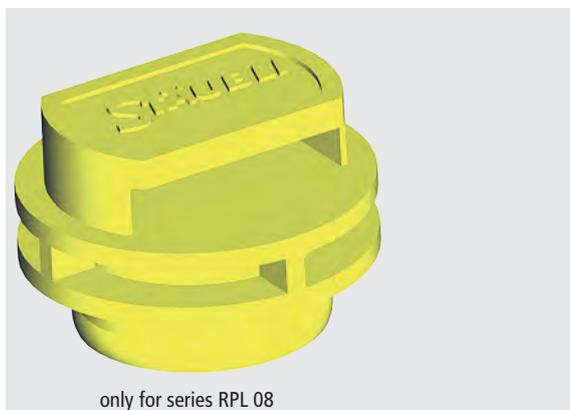
Colour identification collar for hose



Colour identification collars for different hose dimensions (13 to 28 mm) in red or blue with various numbers (0 to 9) on request.

Packaging: sachets of 25 red or blue collars with the same number.

Protective dust cap for socket



only for series RPL 08

Ensure cleanliness of your circuit

Material		Type No.
PU yellow	100	RPL 08.8500100

Material Conveying Quick Connect Couplings

of stainless steel 1.4305, DN 41



- High quality quick coupling system for pressure or vacuum-conveying of bulk material or liquids, i.e. for vacuum-conveying of granulate materials in the plastics industry
- Stainless Steel for less abrasion
- Coupling sleeve, plug and cap aluminium (hard coated)
- Full non valved
- 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-suction hoses, for other hose dimensions on request
- Plugs for tube connection with double O-ring sealing and fixing with screw

Max. working pressure	Vacuum	Material	Mat. seals	Temperature	DN	
PN 10 bar	Vacuum	St. steel / Aluminium	NBR	-15°/+95° C	41	1



Soft-Flow Coupling with hose stem

Hose i. D.	l	d	Stem length	Passage	Weight/pc. g	Type No.
38 mm	82	65	45	34	340	GRK 38 T
40 mm	82	65	45	36	340	GRK 40 T
45 mm	82	65	45	41	340	GRK 45 T
50 mm	82	65	45	41	360	GRK 50 T

For hose clips type HS (© catalogue page 172 / 173)



Soft-Flow Vacuum-Coupling for tube connection*

for Tube O.D	l	d	Passage	Weight/pc. g	Type No.
38 mm	70	65	34	480	GRK 38 R
40 mm	70	65	36	480	GRK 40 R
45 mm	70	65	41	520	GRK 45 R
50 mm	70	65	41	580	GRK 50 R



Soft-Flow Coupling with female thread (with thread sealing ring)

Thread	l	d	Passage	Weight/pc. g	Type No.
G 1 1/2"	68	65	41	560	GRK 15 I
G 2"	68	65	41	650	GRK 20 I



Soft-Flow Cap Coupling with chain

l	d	Material chain	Length chain	Weight/pc. g	Type No.
48	68	stainless steel	170	320	GRK-V

Original Sealing Ring for couplings

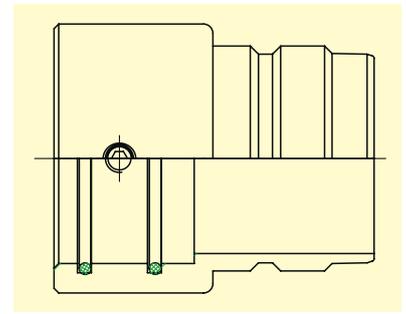
Type	Size	Material	Weight/pc. g		Type No.
O-ring	45 x 5 mm	NBR	6	10	GRK-D

* Attention: Only suitable for vacuum applications, sealing with O-ring, fixing with screw
Adapted hose stems for other hose dimensions/ types on request



Materials:

- Coupling body, plugs: Stainless Steel 1.4305
- Coupling sleeve, Cap Coupling and plugs: Aluminium (hard coated)
- Spring, balls, chain, screws: Stainless steel 1.4410
- Sealing ring: O-ring NBR



Soft-Flow Plug with hose stem

Hose i. D.	l	d	Stem length	Passage	Weight/pc. g	Type No.
38 mm	83	55	45	34	310	GRS 38 T
40 mm	83	55	45	36	315	GRS 40 T
45 mm	83	55	45	41	330	GRS 45 T
50 mm	83	55	45	41	360	GRS 50 T

For hose clips type HS/HSE (© catalogue page 171 – 175)

Soft-Flow Vacuum-Plug for tube connection*

for Tube o. D.	l	d	Passage	Weight/pc. g	Type No.
38 mm	68.5	58	34	360	GRS 38 R
40 mm	68.5	58	36	370	GRS 40 R
45 mm	68.5	58	41	385	GRS 45 R
50 mm	68.5	58	41	420	GRS 50 R

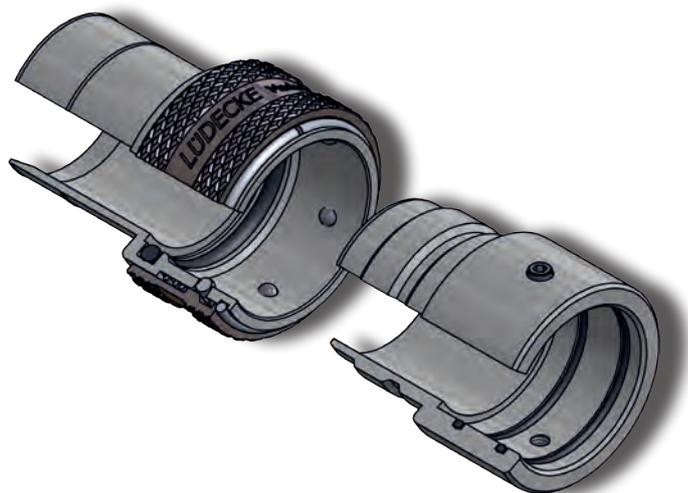
Soft-Flow Plug with female thread (with thread sealing ring)

Thread	l	d	Passage	Weight/pc. g	Type No.
G 1 1/2"	65	59	41	350	GRS 15 I
G 2"	65	59	41	380	GRS 20 I

Soft-Flow Cap Plug with chain

l	d	Material chain	Length chain	Weight/pc. g	Type No.
60	58	stainless steel	170	195	GRS-V

* Attention: Only suitable for vacuum applications, sealing with O-ring, fixing with screw
Special types/versions, i.e. with bulkhead-screwing, plug or colour codings, other sizes on request



Screwings and components

material brass 2.0401

- For temperature control applications with hot or cold water as well as tempered oil
- Hose connections available with standard hose stem for standard hoses or quick-fit stem profile for quick-fit hoses
- Detailed information (☺ catalogue page 113)
- Material: brass MS 58 brass material 2.0401

Max. Working Pressure	Temperature	Medium	Threads	Material	Inner Cone
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	ISO 228 / DIN 13	MS 58	DIN 3863

Standard hose stem tubes for counter-sunk mould threads

Hose i.D.	○Hexag.	l	Stem Length	Tube∅	Passage	Weight/pc. g	☒	Type No.
9 mm	11	120	29.5	10	6	50	1	ESHM 120 RS
13 mm	15	150	35	14	9	114	1	ESH 150 RS

Female thread tubes for counter-sunk mould threads

Thread	○Hexag.	l	Thread Length	Tube∅	Passage	Weight/pc. g	☒	Type No.
M 14 x 1.5	17	120	12	10	6	60	1	ESHM 120 RI
M 16 x 1.5	22	150	12	14	9	130	1	ESH 150 RI

Standard hose stems with outer cone DIN 3863 and hexagon nut. straight. 45°/135° angle and 90° angle

Nut Thread	Hose i.D.	○Hexag.	l	Stem Length	Connect.	Passage	Weight/pc. g	☒	Type No.
G 1/4"	9 mm	17	40	23.5	straight	6	31	10	ST 149 MHL
G 1/4"	9 mm	17	52	22.5	45°/135°	6	60	10	ST 149 MHL-45
G 1/4"	9 mm	17	34	22.5	90°	6	60	10	ST 149 MHL-90
G 3/8"	13 mm	22	41	27	straight	9	50	10	ST 3813 MHL
G 3/8"	13 mm	22	56	22.5	45°/135°	9	80	10	ST 3813 MHL-45
G 3/8"	13 mm	22	40	22.5	90°	9	80	10	ST 3813 MHL-90
G 3/4"	19 mm	32	52	32	straight	13	130	10	ST 3419 MHL
M 14 x 1.5	9 mm	17	40	23.5	straight	6	33	10	ST 14159 MHL
M 14 x 1.5	9 mm	17	52	22.5	45°/135°	6	60	10	ST 14159 MHL-45
M 14 x 1.5	9 mm	17	34	22.5	90°	6	60	10	ST 14159 MHL-90
M 16 x 1.5	13 mm	22	41	27	straight	9	50	10	ST 161513 MHL
M 16 x 1.5	13 mm	22	56	22.5	45°/135°	9	80	10	ST 161513 MHL-45
M 16 x 1.5	13 mm	22	40	22.5	90°	9	80	10	ST 161513 MHL-90
M 24 x 1.5	19 mm	30	52	32	straight	13	132	10	ST 241519 MHL

Male thread connection nipples with inner cone DIN 3863 – 60° cone

Thread	○Hexagon	l	l1	l2	Passage	Weight/pc. g	☒	Type No.
2 x G 1/4"	17	23	9	9	6	21	10	D 14 MH
2 x G 3/8"	19	23	9	9	9	39	10	D 38 MH
2 x G 1/2"	22	30	12	12	13	46	10	D 12 MH
2 x G 3/4"	27	40	16	16	13	125	10	D 34 MH
G 1/4" / M 14 x 1.5	17	23	9	9	6	23	10	D 14-1415 MH
G 1/4" / M 16 x 1.5	19	23	9	9	6	27	10	D 14-1615 MH
G 3/8" / M 14 x 1.5	19	23	9	9	8	30	10	D 38-1415 MH
G 3/8" / M 16 x 1.5	19	23	9	9	9	39	10	D 38-1615 MH
G 1/2" / M 14 x 1.5	22	30	12	9	6	55	10	D 12-1415 MH
G 1/2" / M 16 x 1.5	22	30	12	9	9	55	10	D 12-1615 MH
G 1/2" / M 24 x 1.5	27	36	16	12	13	114	10	D 12-2415 MH
G 3/4" / M 24 x 1.5	27	40	16	16	13	105	10	D 34-2415 MH
2 x M 14 x 1.5	17	23	9	9	6	30	10	D 1415 MH
2 x M 16 x 1.5	19	23	9	9	9	26	10	D 1615 MH
2 x M 24 x 1.5	27	40	16	16	13	125	10	D 2415 MH
M 14 x 1.5 / M 16 x 1.5	17	23	9	9	9	20	10	D 1415-1615 MH
M 14 x 1.5 / M 18 x 1.5	19	26	12	9	9	35	10	D 1415-1815 MH
M 16 x 1.5 / M 18 x 1.5	19	26	12	9	9	37	10	D 1615-1815 MH



Screwings and components

material brass 2.0401

Female thread standard hose stems

Thread	Hose i.D.○Hexag.l	Thread Leng.	Stem Leng.	Passage	Weight/pc. g	☒	Type No.
M 14 x 1.5	9 mm 17	37.5	12	22.5	6	20	10 TI 14159 MHL
M 16 x 1.5	13 mm 22	40	12	25	9	45	10 TI 161513 MHL
M 24 x 1.5	19 mm 30	55	18	35	13	108	10 TI 241519 MHL



Male thread standard hose stems with inner cone DIN 3863 – 60° cone

Thread	Hose i.D.○Hexag.l	Thread Leng.	Stem Leng.	Passage	Weight/pc. g	☒	Type No.
M 8 x 0.75	6 mm 11	33.5	7	22.5	4.5	13	10 G 875-6 THL
M 8 x 0.75	9 mm 11	33.5	7	22.5	4.5	19	10 G 875-9 THL
M 10 x 1	9 mm 11	33.5	7	22.5	6	20	10 G 101-9 THL
G 1/8"	9 mm 11	33.5	7	22.5	6	20	10 G 18-9 THL
G 1/4"	9 mm 15	37.5	9	22.5	6	21	10 G 14-9 THL
G 1/4"	13 mm 15	40	9	25	8	34	10 G 14-13 THL
M 12 x 1.5	13 mm 15	40	9	25	7	35	10 G 1215-13 THL
M 14 x 1.5	13 mm 15	40	9	25	9	36	10 G 1415-13 THL
G 3/8"	9 mm 17	37.5	9	22.5	6	27	10 G 38-9 THL
G 3/8"	13 mm 17	40	9	25	9	36	10 G 38-13 THL
M 16 x 1.5	13 mm 17	40	9	25	9	36	10 G 1615-13 THL
G 1/2"	19 mm 22	50	12	35	13	73	10 G12-19 THL
M 24 x 1.5	19 mm 27	56	16	35	13	114	10 G 2415-19 THL
G 3/4"	19 mm 27	56	16	35	13	125	10 G 34-19 THL



Male thread standard hose stems 90° (metric threads acc. DIN 158/R-threads acc. DIN 2999)

Thread	Hose i.D.○Hexag.l	Thread Leng.	Stem Leng.	Passage	Weight/pc. g	☒	Type No.
M 5 x 0.5	5 9	15.5	5	18	2.7	9	10 ESHMC 505-5SL-90
M 8 x 0.75	5 9	17.5	5	20	2.7	11	10 ESHMC 875-5SL-90
M 8 x 0.75	9 15	27	9	20	4.5	35	10 ESHM 875-9SL-90
M 10 x 1	9 15	27	9	20	6	38	10 ESHM 101-9SL-90
R 1/8"	9 15	27	9	20	6	38	10 ESHM 18-9SL-90
M 14 x 1.5	13 17	34	11	24	9	47	10 ESH 1415-13SL-90
R 1/4"	13 17	34	11	24	9	48	10 ESH 14-13 SL-90
R 1/2"	19 24	47	16	32	13	158	10 ESHG 12-19SL-90
M 24 x 1.5	19 24	47	16	32	13	165	10 ESHG2415-19SL-90



Suitable hose clips, two-ear clips or crimping ferrules for standard hoses (☺ catalogue page 172 – 175)

Male thread quick-fit hose stems – 60° cone

Thread	Hose i.D.○Hexag.l	Thread Leng.	Stem Leng.	Passage	Weight/pc. g	☒	Type No.
M 10 x 1	6 mm 11	41	9	28	6	20	10 G 101-6 TH
G 1/8"	6 mm 14	39	7	28	4	16	10 G 18-6 TH
G 1/4"	6 mm 17	39	7	28	4	19	10 G 14-6 TH
G 1/8"	10 mm 14	39	7	28	5	21	10 G 18-10 TH
G 1/4"	10 mm 17	39	7	28	7	23	10 G 14-10 TH
G 1/4"	13 mm 17	39	7	28	9	28	10 G 14-13 TH
M14 x 1.5	10 mm 15	42	9	28	7	26	10 G 1415-10 TH
G 3/8"	10 mm 17	43	10	28	7	32	10 G 38-10 TH
G 3/8"	13 mm 17	43	10	28	9	36	10 G 38-13 TH
G 1/2"	10 mm 22	43	10	28	7	41	10 G 12-10 TH
G 1/2"	13 mm 22	43	10	28	9	41.5	10 G 12-13 TH
G 1/2"	16 mm 22	58	12	38	13	70	10 G 12-16 TH
G 3/4"	16 mm 27	62	16	38	13	120	10 G 34-16 TH
G 3/4"	19 mm 27	62	16	38	14	135	10 G 34-19 TH



Quick-fit hose menders with / without safety collar

Hose I.D.	Safety collar	DN	I	Weight/pc. g	☒	Type No.
13 mm	with	10	58	24	10	SV 13 R-TH
13 mm	without	10	47	26	10	SV 13 R-THO
16 mm	without	13	47	39	10	SV 16 R-THO

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses!



Coloured marking rings (☺ catalogue page 119 / 122)

Screwings and components

material brass 2.0401



Angle screwings for 45° or 90° connections

Angle°	○Hexagon	Male thread	Female thread	l	Weight/pc. g	☒	Type No.
45°	20	G 1/4"	G 1/4"	29 mm	42	10	W 14 IA-45
90°	20	G 1/4"	G 1/4"	29 mm	53	10	W 14 IA-90

To be combined with female thread couplings, male thread stems and male plugs G 1/4"



Swivel head screwing for trimming of blow nozzles

Connection Thread	Nozzle Thread	Displacement	○Hexagon	l	d	Weight/pc. g	☒	Type No.
G 1/4" male	G 1/4" IG	ca. 47°	22	53	27	104	10	KGV 14

(Temperature -20°C/+100°C)



Male thread- / Female thread-reducing nipples

Male thread	Female thread	○Hexagon	l	l1	Weight/pc. g	☒	Type No.
M 14 x 1.5	M 10 x 1	17	11	7	10	10	R 1415-101 NH
M 18 x 1.5	M 14 x 1.5	22	14	9	15	10	R 1815-1415 NH
G 1/4"	G 1/8"	17	11	7	10	10	R 14-18 NH
G 3/8"	G 1/4"	19	13	9	15	10	R 38-14 NH
G 1/2"	G 3/8"	24	18	12	19	10	R 12-38 NH
M 24 x 1.5	M 16 x 1.5	27	24	16	58	10	R 2415-1615 NH
G 3/4"	G 1/2"	27	24	16	55	10	R 34-12 NH

Locking screws with inner hexagon DIN 906 with tapered male thread



Male thread	○Hexagon	l	Weight/pc. g	☒	Type No.
M 8 x 0.75	4	8	3	10	VS 875
M 10 x 1	5	8	3.5	10	VS 101
M 12 x 1.5	6	8	6	10	VS 1215
M 14 x 1.5	7	10	11	10	VS 1415
R 1/8"	5	8	7.5	10	VS 18
R 1/4"	7	10	11	10	VS 14
R 3/8"	8	10	13	10	VS 38
R 1/2"	10	10	18	10	VS 12

Locking screws with inner hexagon DIN 906 with parallel male thread



Male thread	○Hexagon	l	Weight/pc. g	☒	Type No.
M 8 x 0,75	4	8	3	10	VS 875 ZY
M 10 x 1	5	8	3.5	10	VS 101 ZY
M 12 x 1.5	6	8	6	10	VS 1215 ZY
M 14 x 1.5	7	10	11	10	VS 1415 ZY
G 1/8"	5	8	7.5	10	VS 18 ZY
G 1/4"	7	10	11	10	VS 14 ZY
G 3/8"	8	10	13	10	VS 38 ZY
G 1/2"	10	10	18	10	VS 12 ZY

Female thread combination nipples



Thread	○Hexagon	l	l1	Weight/pc. g	☒	Type No.
2 x G 1/4"	17	26	12	21	10	U 14 NH
G 1/2" / M 14 x 1.5	27	24	12	45	10	U 12-1415 NH
G 1/2" / M 16 x 1.5	27	24	12	46	10	U 12-1615 NH
G 3/4" / M 14 x 1.5	32	28	16	75	10	U 34-1415 NH
G 3/4" / M 16 x 1.5	32	28	16	77	10	U 34-1615 NH

Screwings and components

material brass 2.0401

Male thread standard hose stems with collar

Thread	Hose i. D.	Hexag. l	Thread	Collar	Stem	Passage	Weight/pc. g	⊞	Type No.	
G 1/8"	9	11	40	7	7	22.5	6	15	10	G 189 TA
G 1/4"	13	15	47	9	7	25	9	33	10	G 1413 TA
G 1/2"	19	22	62	12	10	32	13	100	5	G 1219 TA
G 3/4"	19	27	62	12	10	32	13	150	5	G 3419 TA
M 10 x 1	9	11	40	7	7	22.5	6	15	10	G 1019 TA
M 12 x 1.5	13	15	47	9	7	25	8	33	10	G 121513 TA
M 14 x 1.5	13	15	47	9	7	25	9	33	10	G 141513 TA
M 24 x 1.5	19	27	62	12	10	32	13	140	5	G 241519 TA



High-Performance Hose Clips

DIN 3017 of Steel W1

- Hose clips of steel W1, chrome-VI-free zinc plated and passivated
- Optimum sealing through high band tension – maximum strip safety
- Hose-protective through rounded edges and smooth band inside
- Thinner screw body with new position, therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, sizes 100–180 in plastic bags, from size 190 on loose
- For safe, fast and removable use on various hoses and fittings for different fluids

Material	Norm	Medium	Hexagon
W 1	DIN 3017	various	SW 7

High-Performance Hose Clips, band and lock steel W 1 zinc plated



Range	torque		b	max.Nm	s	B	h	L	Weight/pc. g	Type No.
	Band-width	Band-thickness								
8-12	5/18"–1/2"	9	2 + 0.5	0.7	14	11.5	20.5	12	100	HS 12
10-16	5/18"–5/8"	9	2 + 0.5	0.8	14	11.5	20.5	13	100	HS 16
12-22	1/2"–3/4"	9	3 + 0.5	0.8	14	11.5	24	16	100	HS 20
16-27	5/8"–1"	9	5 + 0.5	0.8	16	13	31	17	100	HS 25
20-32	3/4"–1 1/4"	12	5 + 0.5	0.8	16	13	31	27	50	HS 32
25-40	1"–1 5/8"	12	5 + 0.5	1.0	16	13	31	32	50	HS 40
30-45	1 3/8"–1 3/4"	12	5 + 0.5	1.0	16	13	31	33	50	HS 45
35-50	1 1/4"–2"	12	5 + 0.5	1.0	16	13	31	35	50	HS 50
40-60	1 5/8"–2 3/8"	12	5 + 0.5	1.0	16	13	31	39	25	HS 60
50-70	2"–2 3/4"	12	5 + 0.5	1.0	16	13	31	43	25	HS 70
60-80	2 3/8"–3 1/8"	12	5 + 0.5	1.0	16	13	31	45	25	HS 80
70-90	2 3/4"–3 1/2"	12	5 + 0.5	1.0	16	13	37	52	25	HS 90
80-100	3 1/8"–4"	12	5 + 0.5	1.0	16	13	37	53	10	HS 100
90-110	3 1/2"–4 3/8"	12	5 + 0.5	1.0	16	13	37	53	10	HS 110
100-120	4"–4 3/4"	12	5 + 0.5	1.0	16	13	37	58	10	HS 120
110-130	4 3/8"–5 1/8"	12	5 + 0.5	1.0	16	13	37	60	10	HS 130
120-140	4 3/4"–5 1/2"	12	5 + 0.5	1.0	16	13	37	63	10	HS 140
130-150	5 1/8"–5 7/8"	12	5 + 0.5	1.0	16	13	37	69	5	HS 150
140-160	5 1/2"–6 1/4"	12	5 + 0.5	1.0	16	13	37	71	5	HS 160
150-170	5 7/8"–6 5/8"	12	5 + 0.5	1.0	16	13	37	74	5	HS 170
160-180	6 1/4"–7"	12	5 + 0.5	1.0	16	13	37	77	5	HS 180
170-190	6 1/2"–7 1/2"	12	5 + 0.5	1.0	16	13	37	79	1	HS 190
180-200	7 1/8"–8"	12	5 + 0.5	1.0	16	13	37	81	1	HS 200
190-210	7 1/2"–8 1/4"	12	5 + 0.5	1.0	16	13	37	86	1	HS 210
200-220	8"–8 3/4"	12	5 + 0.5	1.0	16	13	37	92	1	HS 220
210-230	8 1/8"–9"	12	5 + 0.5	1.0	16	13	37	98	1	HS 230
220-240	8 3/4"–9 3/8"	12	5 + 0.5	1.0	16	13	37	101	1	HS 240
230-250	9"–9 3/4"	12	5 + 0.5	1.0	16	13	37	105	1	HS 250
240-260	9 3/8"–10 1/4"	12	5 + 0.5	1.0	16	13	37	108	1	HS 260
250-270	9 3/4"–10 1/2"	12	5 + 0.5	1.0	16	13	37	112	1	HS 270
260-280	10 1/4"–11"	12	5 + 0.5	1.0	16	13	37	116	1	HS 280



High-Performance Hose Clips

DIN 3017 of Stainless Steel W5

- Hose clips of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Thinner screw body with new position, therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes, size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for different fluids

Material	Norm	Medium	Hexagon
W 5	DIN 3017	aggressive	SW 7*

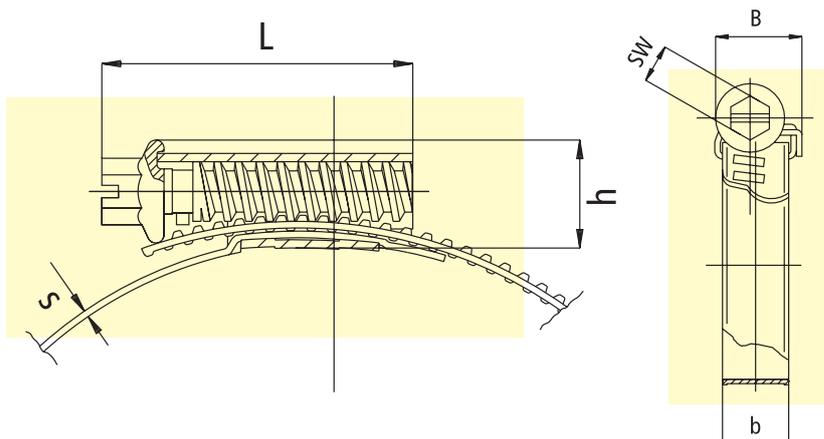
High-Performance Hose Clips, band and lock stainless steel W 5

Range	Band-width	torque		B	h	L	Weight/pc. g	Type No.		
		Band-thickness	max Nm							
mm	inch	b	s							
8–12	5/18"–1/2"	8	1.5	0.7	10.5	9.5	17	6	100	HSE 12*
8–16	5/18"–5/8"	9	2 + 0.5	0.8	14	14.5	21	11	100	HSE 16
12–20	1/2"–3/4"	9	2 + 0.5	0.8	14	14.5	24	13	100	HSE 20
16–25	5/8"–1"	9	3 + 0.5	0.8	14	14.5	24	14	100	HSE 25
20–32	3/4"–1 1/4"	9	3 + 0.5	0.8	14	14.5	24	15	100	HSE 32
25–40	1"–1 5/8"	9	3 + 0.5	0.8	14	14.5	26	18	50	HSE 40
32–50	1 1/4"–2"	9	3 + 0.5	0.8	14	14.5	26	18	50	HSE 50
40–60	1 5/8"–2 3/8"	9	3 + 0.5	1.0	14	14.5	26	20	25	HSE 60
50–70	2"–2 3/4"	9	3 + 0.5	1.0	14	14.5	26	21	25	HSE 70
60–80	2 3/8"–3 1/8"	9	3 + 0.5	1.0	14	14.5	26	23	25	HSE 80
70–90	2 3/4"–3 1/2"	9	3 + 0.5	1.0	14	14.5	26	25	25	HSE 90
80–100	3 1/8"–4"	9	3 + 0.5	1.0	14	14.5	26	28	10	HSE 100

*HSE 12 Hexagon 6 mm

Special Screw Driver hexagon, Hexagon 7, with plastic handle

Type	Material	Weight/pc. g	Type No.
Rigid	steel chromated	89	1 SR STARR
Flexible	steel chromated	134	1 SR FLEX.



Two-Ear Hose Clips

- Profile according to DIN 2393 C
- Clips 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 unremovable
- No danger of hurt during assembly or work
- [Suitable for various hoses and fittings for different fluids](#)



Material	Medium	⊗
special reliable steel	various	100

Two-Ear-Hose Clips

Hose o.D./Range	band-width	Weight/pc. g	Type No.
5-7 mm	5.5 mm	1	ZOS 5-7
7-9 mm	6 mm	2	ZOS 7-9
9-11 mm	6 mm	2	ZOS 9-11
11-13 mm	6 mm	3	ZOS 11-13
13-15 mm	7 mm	4	ZOS 13-15
14-17 mm	7.5 mm	4	ZOS 14-17
15-18 mm	8 mm	5	ZOS 15-18
17-20 mm	8 mm	5	ZOS 17-20
19-21 mm	7 mm	5	ZOS 19-21
20-23 mm	9 mm	8	ZOS 20-23
22-25 mm	9 mm	9	ZOS 22-25
23-27 mm	9 mm	9	ZOS 23-27
25-28 mm	9 mm	10	ZOS 25-28
27-31 mm	9 mm	12	ZOS 27-31
31-34 mm	9 mm	13	ZOS 31-34
34-37 mm	9 mm	16	ZOS 34-37
37-40 mm	9 mm	17	ZOS 37-40
40-43 mm	9 mm	18	ZOS 40-43
Special assembly pincer		332	ZOSZ

Ferrules for Low Pressure Hose Lines

- Ferrules of redhotted 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, closed and unremovable connection
- For crimping of various hoses and fittings for different fluids

Max. Working Pressure		Material		Medium					
PN 16 bar		red hotted steel		various					
For hoses									
Ø Inside	DIN 20018	Water	PVC	Assembly-Machine	l	d	g	Weight/pc.	Type No.
12.5				SPR 333	17	8.5	3	100	LPH-12.5
13.5			6 x 3	SPR 333	20	9.3	5	100	LPH-13.5
14.5	6 x 3.5			SPR 333	17	10	5	100	LPH-14.5
16			8 x 3	SPR 333	17	11.5	5	100	LPH-16
18	9 x 3.5		10 x 3	SPR 333	20	13.5	7	100	LPH-18
19			12 x 3	SPR 333	20	13.9	9	100	LPH-19
19.5				SPR 333	26	14.5	10	100	LPH-19.5
21				SPR 333	26	14.5	12	100	LPH-21
22				SPR 333	32	17	16	100	LPH-22
23		13 x 3		SPR 333	32	17	18	100	LPH-23
25	13 x 5				32	17	19	100	LPH-25
28	15 x 6				32	20.5	22	100	LPH-28
30.5		19 x 4			33	24.3	24	100	LPH-30
33	19 x 6				35	24.8	40	100	LPH-33
38		25 x 4.5			35	28	47	25	LPH-38
41	25 x 7				40	30	64	25	LPH-41

For higher Working Pressure we recommend hydraulic crimping with turned steel ferrules type PH (© catalogue page 219) 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 20 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Cheap:** Fast assembling at reasonable costs
- **Safe:** Improved safety through perfect fit
- **Elegant:** Reduced danger of injury
- With two crimping-jaw sets for crimping range from 3 to 20 mm and from 10 to 20 mm,
- **Flexible:** For mobile use

For hoses					
Hose i.D.	Hose o.D.	Suitable ferrule	e.g. for fitting	Weight/pc. kg	Type No.
3–20 mm	10–22 mm	LPH 12.5-23	Pneumatic-Connect., Quick Couplings	12.2	SPR-333



LÜDECKE

WATER



Water
Profi by **LÜDECKE**

Content Water

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A superior product range for water supply to be used in industry, crafts , gardening and landscaping

LUDECKE – Since 1930 our name stands for a supplier and manufacturer of high-quality coupling systems. We connect various media carrying lines to tools, machines and equipment. With our WaterProfi program, we have engineered high end solutions for various water applications.

Whether for private gardening, commercial gardening and landscaping, agriculture, food industry, for cleaning or supply services at industrial workplaces or for drinking water applications – we are able to provide you a solution for nearly all kind of applications.

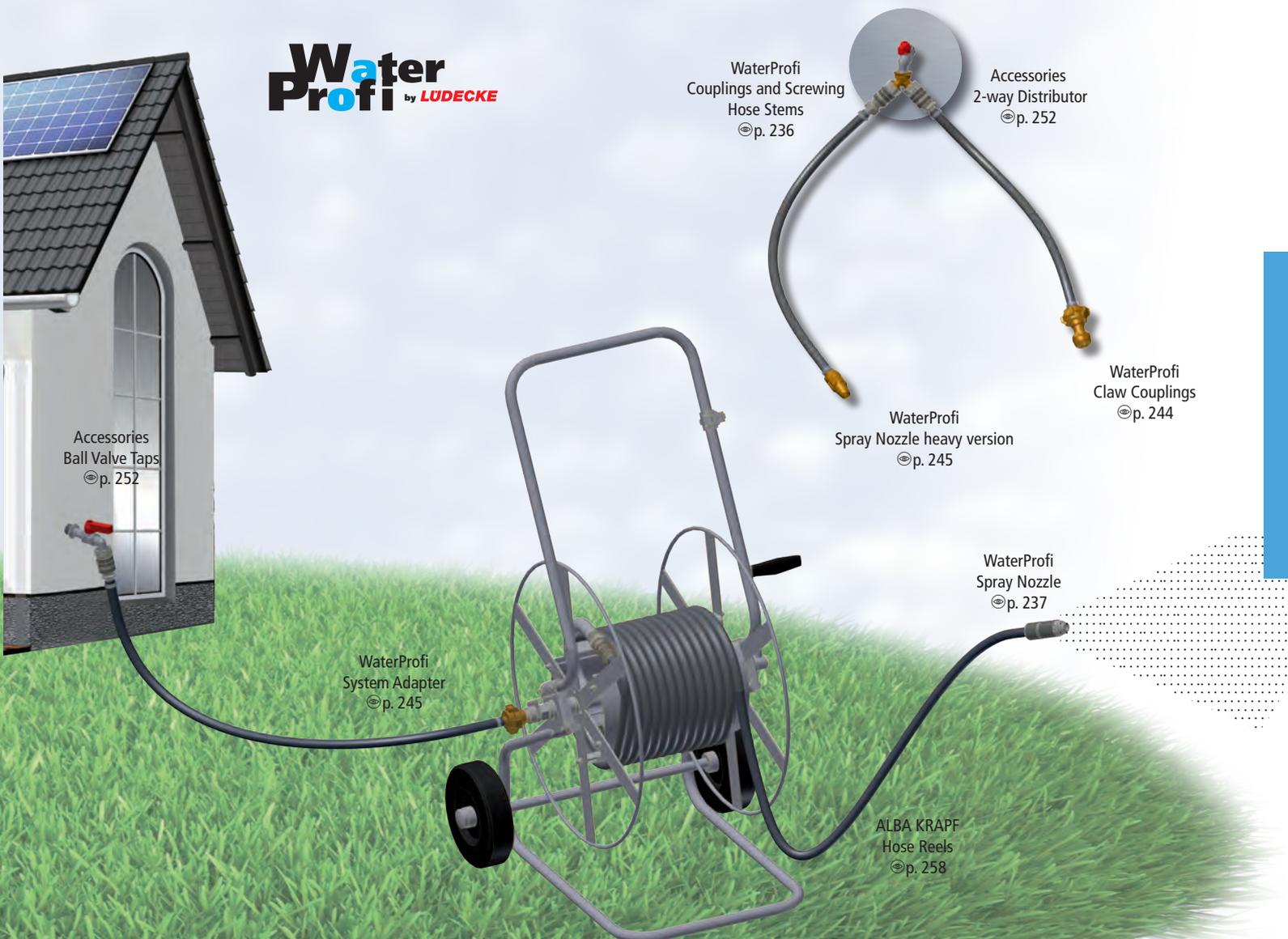


Particularly our WaterProfi product range of Quick Connect Couplings and Claw Couplings as well as the first-class ALBA KRAPF Hose Reels are offering most efficient usage in flow, handling and sustainability. This combination allows fast and professional supply of water in various applications. Our promise - highest quality at all times – Made by **LUDECKE**.



A product range for systems with compatible components, offering highest combination possibilities

Our products offer you the opportunity to combine and connect to accommodate your needs. The **LUDECKE** water program products allow the user to set up of an individualized and all time flexibly, expandable water system for a multitude of applications in various situations.



WaterProfi by **LUDECKE**

WaterProfi
Couplings and Screwing
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ALBA KRAPP
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WaterProfi
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Combining and Connecting

We would be pleased to provide you active assistance with the composition of a customized water system. On the following pages you find our complete product portfolio with all relevant data as well as our competent contacts.



WaterProfi Quick Connect Couplings



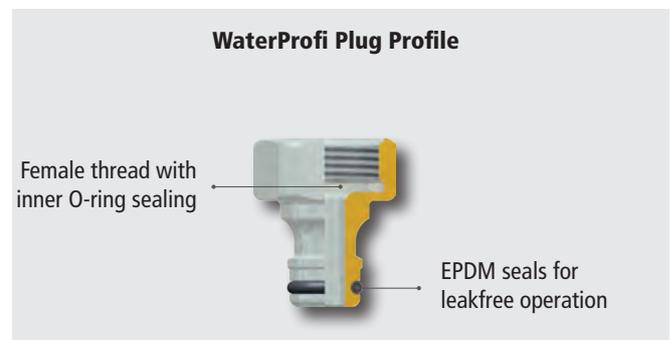
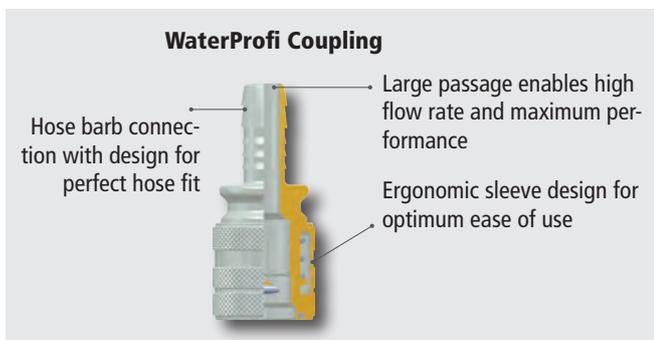
A superior connection system,
compatible with the standard plug profile DN 9 and DN 16

WaterProfi Quick Connect Couplings are completely made of brass MS 58 which offers a more robust and wear resistance vs other couplings made of plastics. The one-hand operation guarantees a simplified work and an optimum ease of use. WaterProfi products are outfitted with O-rings to offer best sealing characteristics. That means: leakages can be avoided with the coupling system as often seen with pre-mounted compression fittings now in the past.

Advantages:

- Simple to connect, high pressure spectrum, high sealing characteristic and durable
- Robust, secure and reliable
- Compact size
- Ergonomic sleeve design for optimum ease of use
- High flow rates due to the largest possible passage
- Interchangeable with the standard plug profile
- Available with shut-off and free-flow passage

Top quality for trouble free working



Connected in seconds

WaterProfi products are easily to connect without big effort; due to the one hand operation function design. To connect push the plug into the coupler up to the end, the locking sleeve locks automatically and holds the plug firmly.

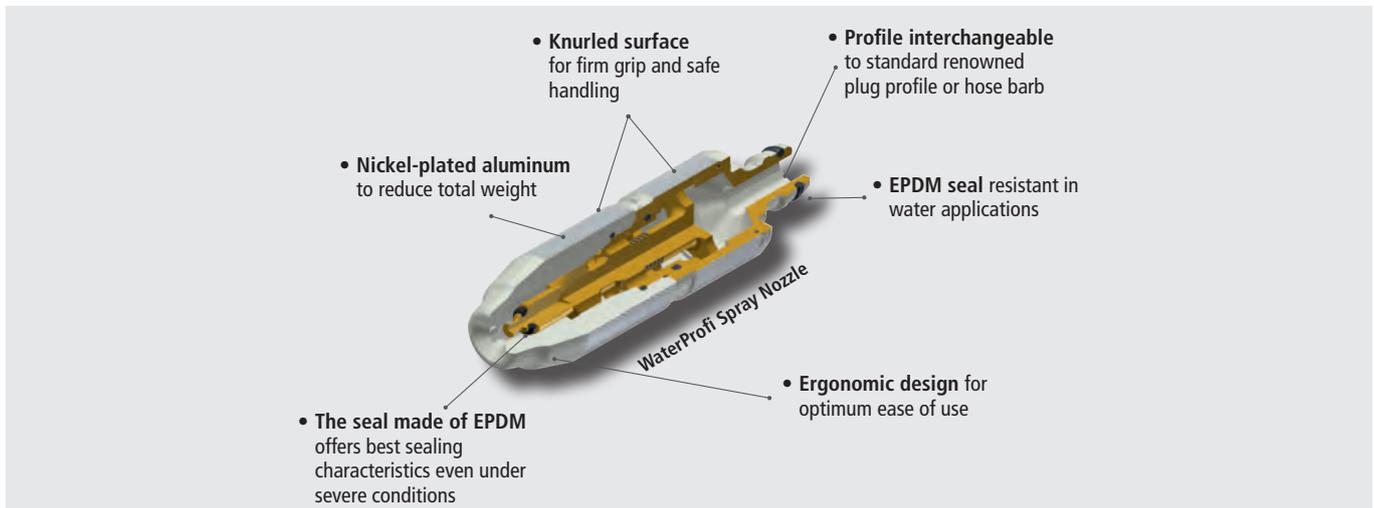


To disconnect, grasp the plug firmly with one hand. With the other hand push the locking sleeve backwards and pull the plug off the coupling. After disconnecting, the locking sleeve slips automatically back to starting position. This system allows not only a fast work process, but also a reduction to a minimum of potential injuries in term of finger trapping etc.

WaterProfi Spray Nozzle

Premium quality for optimized flexible watering

The highlight of the WaterProfi Quick Connect Couplings is the WaterProfi Spray Nozzle. Best characteristics are shown by the premium finishing and its significant technical features. The front part of the nozzle is made of nickel-plated aluminium in regards of weight reduction. All other parts are made of brass*. The material combination and the design featuring the WaterProfi Spray Nozzle as very robust and durable. At the nozzle orifice, an additional sealing ring prevents leakages even in case of rough handling and massive loads. The knurled sleeve is dedicated to a firm grip, even under wet conditions, this design offers safe handling.



Quickly ready for use – for flexible working

The WaterProfi Spray Nozzle can be easily connected or disconnected with a WaterProfi coupling attached to a hose and therefore offers great flexibility.

Easy flow control - from mist to full jet



The WaterProfi Spray Nozzle offers the capability that the water jet can be fine tuned and adjusted or turned off by the front part of the nozzle, without increasing the nozzle length in total.

In reference to a concerted technical interaction of 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 jet.

The WaterProfi quick connect couplings are ideally suited for water pipes used in industrial applications, crafts, gardening and landscaping or private households. Due to the one hand operation functionality, it is particularly useable in areas that demand a quick and flexible work performance. Furthermore, we offer the WaterProfi Quick Connect Couplings with a large diameter (16mm) for increased flow volume and in a stainless steel series.

*visible elements additionally nickel-plated

WaterProfi Quick Connect Couplings

of brass, nickel-plated, Series WS

DN9

- High quality one-hand operation Quick Connect Couplings of nickel-plated brass MS 58
- Easy to connect, high pressure spectrum, superior sealing characteristics and durable, robust, safe and reliable
- Ergonomic sleeve design for perfect handling and compact size
- High water flow due to optimized passage
- Spray nozzle with water flow shut off and flow control from spray to full jet
- Interchangeable with standard plug profile types, available with shut-off valves or non-valved
- **Universal one-hand operation Quick Connect Coupling for water lines in industry, crafts, agriculture, landscaping, gardening or household**

Materials:

- Sleeve, connection, valve body, valve: brass MS 58 nickel-plated
- Springs: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- O-rings: EPDM

Max. Working Pressure	Temperature	Material	Mat. Seal	Medium	Thread	One-hand	
PN 16 bar	+95°C	MS 58	EPDM	water	ISO 228	yes	5

WaterProfi-Couplings with hose stem and free passage

Hose i.D.	b	l	Weight/pc. g	Type No.w/o valve	Type No. with valve
1/2" = 13 mm	32	75	165	WS 13 T	WS 13 TAB
5/8" = 16 mm	32	75	166	WS 16 T	WS 16 TAB
3/4" = 19 mm	32	75	173	WS 19 T	WS 19 TAB
1" = 25 mm	32	75	185	WS 25 T	WS 25 TAB

WaterProfi-Couplings with female thread and free passage

Thread	b	l	Weight/pc. g	Type No.w/o valve	Type No. with valve
G 3/4"	32	55	172	WS 34 I	WS 34 IAB

WaterProfi-Screwing hose stems (for Combination with WaterProfi Couplings with female thread)

Thread	Hose i. D.	b	l	Weight/pc. g	Type No.
G 3/4" male	1/2" = 13 mm	26.5	41	37	WS 13 GT
G 3/4" male	5/8" = 16 mm	26.5	41	38	WS 16 GT
G 3/4" male	3/4" = 19 mm	26.5	41	49	WS 19 GT
G 3/4" male	1" = 25 mm	26.5	41	68	WS 25 GT

WaterProfi-Plugs with hose stem

Hose i. D.	b	l	Weight/pc. g	Type No.
1/2" = 13 mm	24	58	53	WS 13 S
5/8" = 16 mm	24	58	53	WS 16 S
3/4" = 19 mm	24	58	62	WS 19 S
1" = 25 mm	24	58	88	WS 25 S

WaterProfi-Plugs with female thread (valve adaptor) (With female thread sealing ring)

Thread	Hexagon	b	l	Weight/pc. g	Type No.
G 1/2"	27	30	38	70	WS 12 NI
G 3/4"	30	32	38	68	WS 34 NI

WaterProfi-Plug-Adaptor

	b	l	Weight/pc. g	Type No.
	24	52	70	WSA

System Adapter

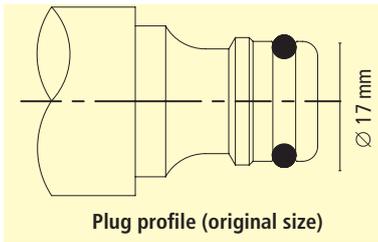
For Hose	b	l	Weight/pc. g	Type No.
WaterProfi-Coupling	54.2	76.5	254	WSK-WPA

For Hose	b	l	Weight/pc. g	Type No.
WaterProfi-Plug	54.2	59.5	160	WSS-WPA



WaterProfi Quick Connect Couplings

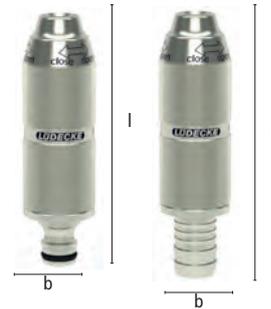
of brass, nickel-plated, Series WS



Max. Working Pressure	Temperature	Material	Mat. Seal	Medium	Thread	One-hand	
PN 16 bar	+95°C	MS 58	EPDM	water	ISO 228	yes	5

WaterProfi-Spray Nozzles with plug or hose stem

Connection	DN	b	l	Weight/pc. g	Type No.
Plug WaterProfi	6.5	33	118	308	WSD-S
Hose i. D. 1/2" = 13mm	6.5	33	126	302	WSD 13 T
Hose i. D. 5/8" = 16 mm	6.5	33	126	303	WSD 16 T
Hose i. D. 3/4" = 19 mm	6.5	33	126	312	WSD 19 T
Hose i. D. 1" = 25 mm	6.5	33	126	328	WSD 25 T
G 1/2" male	6.5	33	106	297	WSD 12 A



NEW!

WaterProfi Quick Connect Couplings

of brass, nickel-plated, Series WL

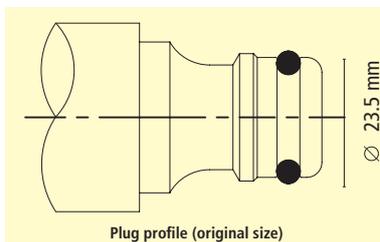


DN 16

- High quality one-hand operation Quick Connect Couplings of nickel-plated brass MS 58
- Easy to connect, high pressure spectrum, superior sealing characteristics and durable, robust, safe and reliable
- Ergonomic sleeve design for perfect handling and compact size
- High water flow due to optimized passage
- Interchangeable with standard plug profile types
- Available with shut-off valves or non-valved
- **Universal one-hand operation Quick Connect Coupling for water lines in industry, crafts, agriculture, land scaping, gardening or household**

Materials:

- Sleeve, connection, valve body, valve: brass MS 58 nickel-plated
- Springs: Stainless steel 1.4310
- Pins: Stainless steel 1.4305
- O-rings: EPDM



Max. Working Pressure	Temperature	Material	Mat. Seal	Medium	Thread	One-hand	
PN 16 bar	+95°C	MS 58	EPDM	water	ISO 228	yes	5

WaterProfi-Couplings with hose stem and free passage

Hose i.D.	b	l	Weight/pc.g	Type No.w/o valve	Type No.with valve
3/4" = 19 mm	39	86	275	WL 19 T	WL 19 TAB
1" = 25 mm	39	86	291	WL 25 T	WL 25 TAB
1 1/4" = 32 mm	39	86	298	WL 32 T	WL 32 TAB

WaterProfi-Couplings with female thread and free passage

Thread	Hexagon	b	l	Weight/pc.g	Type No.w/o valve	Type No.with valve
G 3/4"	34	39	66.5	303	WL 34 I	WL 34 IAB
G 1"	38	39	67	302	WL 10 I	WL 10 IAB
G 1 1/4"	46	39	67	330	WL 54 I	WL 54 IAB

WaterProfi-Screwing hose stems (for combination with WaterProfi-Couplings with female thread)

Thread	Hose i.D.	b	l	Weight/pc.g	Type No.
G 3/4" male	3/4" = 19 mm	26.5	41	49	WS 19 GT
G 3/4" male	1" = 25 mm	26.5	41	68	WS 25 GT

WaterProfi-Plugs with hose stem

Hose i.D.	b	l	Weight/pc.g	Type No.
3/4" = 19 mm	32	64	97	WL 19 S
1" = 25 mm	32	64	116	WL 25 S
1 1/2" = 32 mm	34	64	149	WL 32 S

WaterProfi-Plugs with female thread (valve adaptor) (With female thread sealing ring)

Thread	Hexagon	b	l	Weight/pc.g	Type No.
G 3/4"	34	36.5	43	122	WL 34 NI
G 1"	38	40.5	44	148	WL 10 NI
G 1 1/4"	46	50	46	214	WL 54 NI

WaterProfi-Plugs with male thread

Thread	Hexagon	b	l	Weight/pc.g	Type No.
G 3/4"	34	36.5	51	127	WL 34 NA
G 1"	38	40.5	51	181	WL 10 NA
G 1 1/4"	46	50	55	238	WL 54 NA

WaterProfi-Plug-Adaptor

b	l	Weight/pc.g	Type No.
32	62	116	WLA

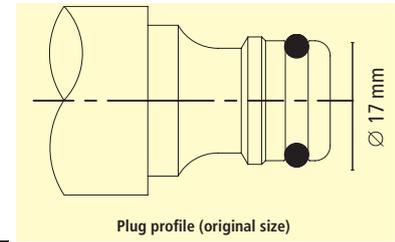
WaterProfi-Plug-Adaptor (Series WL to Series WS)

DN	b	l	Weight/pc.g	Type No.
9/16	32	57	91	WLWSA-F



- High quality one-hand operation Quick Connect Couplings of stainless steel
- Easy to connect, high pressure spectrum, superior sealing characteristics and durable, robust, safe and reliable
- Flat sleeve contour for the prevention of dirt accumulation
- High water flow due to optimized passage
- Interchangeable with standard plug profile types
- Available with shut-off valves or non-valved
- Quick Connect Couplings for applications with specific hygienic requirements or for carrying various different aggressive media, e.g. pharmacy, chemical industry, medicine technique, food industry, clean room

DN 9



Materials:

- Sleeve, connection, valve body, valve, pins: stainless steel 1.4305
- Spring: Stainless steel 1.4310 • O-rings: EPDM

Max. Working Pressure	Temperature	Material	Mat. Seal	Medium	Thread	One-hand	
PN 16 bar	+95°C	Stainless Steel 1.4305	EPDM	water	ISO 228	yes	5

WaterProfi-Couplings with hose stem and free passage

Hose i.D.	DN	b	l	Weight/pc.g	Type No.w/o valve	Type No.with valve
1/2" = 13 mm	9	34	75	163	WSE 13 T	WSE 13 TAB
5/8" = 16 mm	9	34	75	164	WSE 16 T	WSE 16 TAB
3/4" = 19 mm	9	34	75	171	WSE 19 T	WSE 19 TAB
1" = 25 mm	9	34	75	194	WSE 25 T	WSE 25 TAB

WaterProfi-Couplings with female thread and free passage

Thread	DN	b	l	Weight/pc.g	Type No.w/o valve	Type No.with valve
G 3/4"	9	34	56	170	WSE 34 I	WSE 34 IAB

WaterProfi-Screwing hose stems (for Combination with WaterProfi-Couplings with female thread)

Thread	Hose i.D.	DN	b	l	Weight/pc.g	Type No.
G 3/4" male	1/2" = 13 mm	10	26.5	41	35	WSE 13 GT
G 3/4" male	5/8" = 16 mm	13	26.5	41	39	WSE 16 GT
G 3/4" male	3/4" = 19 mm	15	26.5	41	50	WSE 19 GT
G 3/4" male	1" = 25 mm	19	26.5	41	62	WSE 25 GT

WaterProfi-Plugs with hose stem

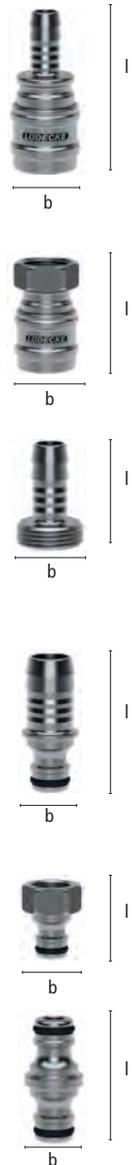
Hose i.D.	DN	b	l	Weight/pc.g	Type No.
1/2" = 13 mm	9	24	58	61	WSE 13 S
5/8" = 16 mm	9	24	58	65	WSE 16 S
3/4" = 19 mm	9	24	58	67	WSE 19 S
1" = 25 mm	9	27	58	83	WSE 25 S

WaterProfi-Plugs with female thread (valve adaptor) (With female thread sealing ring)

Thread	Hexagon	DN	b	l	Weight/pc.g	Type No.
G 1/2"	27	9	30	38	67	WSE 12 NI
G 3/4"	30	9	32	38	64	WSE 34 NI

WaterProfi-Plug-Adaptor

DN	b	l	Weight/pc.g	Type No.
9	24	52	66	WSEA



NEW!

WaterProfi Wand Nozzle



- Wand nozzle with free adjustable spray nozzle up to 60 l capacity
- Easy and simple regulation by push valve technology
- Various adapters, tube lengths and connectors
- Soft and comfortable handgrip
- For commercial and private applications, plantations and nursery gardens

Materials:

- Body: brass and aluminium galvanic nickel-plated
- Switching sleeve: aluminium hartcoated
- Casting tube, spray head: aluminium
- O-rings: EPDM

Max. Working Pressure	Temperature	Mat. Seal	Medium	Thread
PN 16 bar	+95°C	EPDM	Water	ISO 228

Wand Nozzle with female thread 3/4"- ISO 228

Tube lengths. mm	ø Spray head	ø Bores	Total length mm	Type No.
400	30	1.0	600	GG 403010 34I
600	30	1.0	800	GG 603010 34I
900	30	1.0	1100	GG 903010 34I
400	52	0.7	600	GG 405207 34I
600	52	0.7	800	GG 605207 34I
900	52	0.7	1100	GG 905207 34I
400	52	1.0	600	GG 405210 34I
600	52	1.0	800	GG 605210 34I
900	52	1.0	1100	GG 905210 34I

Wand Nozzle with WaterProfi Claw Coupling

Tube lengths. mm	ø Spray head	ø Bores	Total length mm	Type No.
400	30	1.0	620	GG 403010 GKA
600	30	1.0	820	GG 603010 GKA
900	30	1.0	1120	GG 903010 GKA
400	52	0.7	620	GG 405207 GKA
600	52	0.7	820	GG 605207 GKA
900	52	0.7	1120	GG 905207 GKA
400	52	1.0	620	GG 405210 GKA
600	52	1.0	820	GG 605210 GKA
900	52	1.0	1120	GG 905210 GKA



WaterProfi Wand Nozzle



- Wand nozzle with free adjustable spray nozzle up to 60 l capacity
- Easy and simple regulation by push valve technology
- Various adapters, tube lengths and connectors
- Soft and comfortable handgrip
- For commercial and private applications, plantations and nursery gardens

Materials:

- Body: brass and aluminium galvanic nickel-plated
- Switching sleeve: aluminium hartcoated
- Casting tube, spray head: aluminium
- O-rings: EPDM

Max. Working Pressure	Temperature	Mat. Seal	Medium	Thread
PN 16 bar	+95°C	EPDM	Water	ISO 228

Wand Nozzle with WaterProfi Quick Connect Coupling "WS" DN 9

Tube lengths. mm	ø Spray head	ø Bores	Total length mm	Type No.
400	30	1.0	630	GG 403010 WS
600	30	1.0	830	GG 603010 WS
900	30	1.0	1130	GG 903010 WS
400	52	0.7	630	GG 405207 WS
600	52	0.7	830	GG 605207 WS
900	52	0.7	1130	GG 905207 WS
400	52	1.0	630	GG 405210 WS
600	52	1.0	830	GG 605210 WS
900	52	1.0	1130	GG 905210 WS

Wand Nozzle with WaterProfi Quick Connect Coupling "WL" DN 16

Tube lengths. mm	ø Spray head	ø Bores	Total length mm	Type No.
400	30	1.0	640	GG 403010 WL
600	30	1.0	840	GG 603010 WL
900	30	1.0	1140	GG 903010 WL
400	52	0.7	640	GG 405207 WL
600	52	0.7	840	GG 605207 WL
900	52	0.7	1140	GG 905207 WL
400	52	1.0	640	GG 405210 WL
600	52	1.0	840	GG 605210 WL
900	52	1.0	1140	GG 905210 WL





WaterProfi Claw Couplings

The robust Classic



The WaterProfi Claw Couplings and Spray Nozzles are completely made of forged brass MS 58. Thus, claw types are extremely durable and highly wear resistant. Additionally, the couplings are extremely weather and

temperature resistant and guarantee a particularly secure hold. As a result of their design, WaterProfi claw types are compatible with all water claw couplings with a claw distance of 40 mm and therefore universally applicable.



Advantages:

- Easy to connect, high pressure and vacuum capabilities, reduced "breakdown torque"
- Maximum bore at optimum wall thickness
- Soft hose tail design – avoids hose damages, perfect fit on hose tail
- Ergonomically formed claws, securing knobs against accidental loosening
- High performance O ring of EPDM with perfect elasticity and resistance features
- Sealing washer, usable with almost all standard water claw coupling seals

WaterProfi Hose Claw Couplings

specified distance of 40 mm



securing knobs prevent accidental loosening of the coupling halves

Soft hose tail design avoids hose damages, perfect fit on hose tail

the EPDM rubber ring adjusts to every tensile and tilting load and increases the vacuum and pressure spectrum



locking nut for highest possible safety, sealing and durability

Soft hose tail design avoids hose damages, perfect fit on hose tail



easy to connect

The WaterProfi Mody-Safety-Screwing-Hose Claw Coupling allows the user to lock the connected coupling system to avoid any kind of unintended opening.

A classic coupling principle with added safety advantage

Bring the two couplings together on the front end side in order to connect the sealing surfaces. Then twist one coupling half against the other and turn up to the end – the plug locks into place.



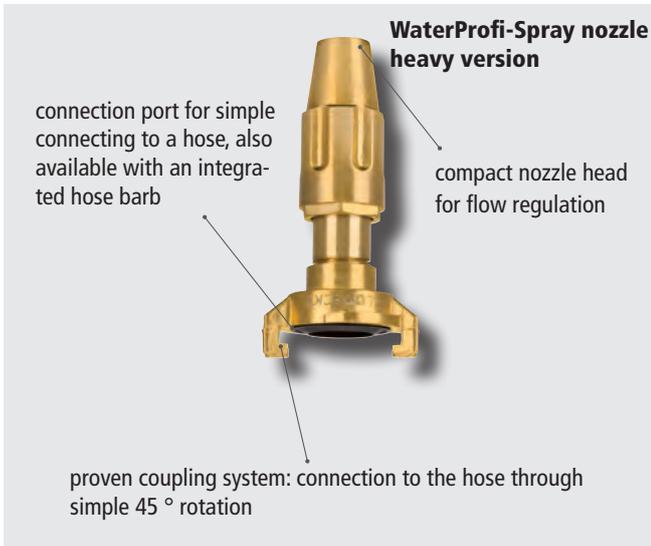
To disconnect, push the coupling and the counterpart together in the axial direction.

Again turn one part of the coupling in the opposite direction for disconnecting until the end stop and remove it from the counterpart.

WaterProfi Spray Nozzle

The professional Spray Nozzle for all demands

The WaterProfi series also offers a high-quality spray nozzle. This is conically metal sealed and particularly suitable for use in the industry and commercial gardening. The nozzle is available, subject to application, with a hose connection port or a claw coupling.

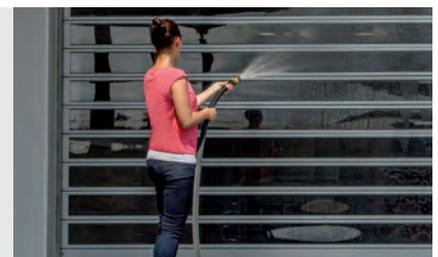


Flow control with smooth transition from mist to full jet

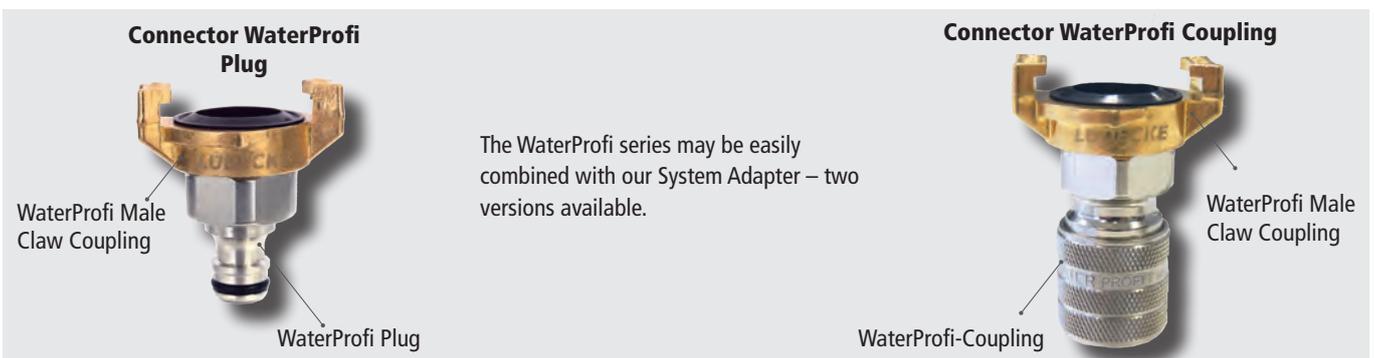


This spray nozzle enables a perfect flow control from mist to full jet and the possibility to stop the water flow while twisting of the spray nozzle.

The WaterProfi claw couplings are particularly suitable for high-pressure water applications. Recommended for professional applications with water.



System Adapter: quickly combined



WaterProfi Claw Couplings

of brass for water



- High quality couplings of forged brass MS 58
- Easy to couple, high pressure and vacuum-spectrum, reduced "breakdown torque"
- Maximum bore at optimum wall thickness as well as soft hose tail design
- Ergonomic formed claws, optimum security against accidental opening
- High performance rubber ring of EPDM with perfect elasticity and resistance
- Interchangeable with standard Water Claw Couplings with claw distance of 40 mm
- Sealing washer, usable with almost all standard water claw coupling seals
- Spray Nozzle with flow control with smooth transition from mist to full jet
- **Universal coupling for water lines in industry, construction, garages, agriculture or civil installations**

Max. Working Pressure	Temperature	Material	Mat. Seal	Medium	Threads	Claw Distance	
PN 25 bar	up to +95°C	MS 58	EPDM	water	ISO 228	40 mm	10

WaterProfi Hose Claw Couplings

Hose i.D.	DN	b	l	Weight/pc. g	Type No.
3/8" = 10 mm	7.5	53.5	50	93	GSK 10
1/2" = 13 mm	10.5	53.5	50	94	GSK 13
5/8" = 16 mm	13.5	53.5	54	102	GSK 16
3/4" = 19 mm	16.5	53.5	54	102	GSK 19
1" = 25 mm	21.5	53.5	58	125	GSK 25
1 1/4" = 32 mm	23	53.5	70	176	GSK 32
1 1/2" = 38 mm	23	53.5	73	210	GSK 38

For hose clips type HS (© catalogue page 345), type ZOS (© catalogue page 344)
or crimping ferrules type LPH (© catalogue page 347)

WaterProfi Female Claw Couplings with thread O Ring

Thread	DN	b	l	Weight/pc. g	Type No.
G 1/4"	8	53.5	31.5	96	GKI 14
G 3/8"	11	53.5	31.5	95	GKI 38
G 1/2"	14	53.5	31.5	97	GKI 12
G 3/4"	19	53.5	32.5	102	GKI 34
G 1"	23	53.5	33	115	GKI 10
G 1 1/4"	23	53.5	37	143	GKI 54
G 1 1/2"	23	53.5	38	177	GKI 15

WaterProfi Male Claw Couplings

Thread	DN	b	l	Weight/pc. g	Type No.
G 1/4"	8	53.5	32	89	GKA 14
G 3/8"	11.5	53.5	32	97	GKA 38
G 1/2"	15	53.5	32	96	GKA 12
G 3/4"	20	53.5	32	100	GKA 34
G 1"	23	53.5	32	104	GKA 10
G 1 1/4"	23	53.5	36	132	GKA 54
G 1 1/2"	23	53.5	36	163	GKA 15

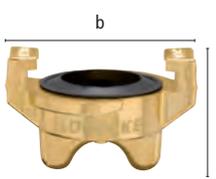
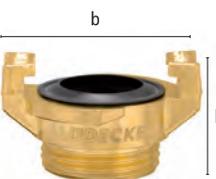
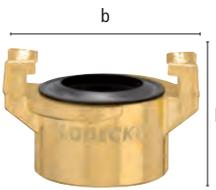
Male thread sealing with sealing ring type HPD (© catalogue page 189)

WaterProfi Blank End Claw Coupling

Version	b	l	Weight/pc. g	Type No.
Without Chain	53.5	37	103	GKO

Original Rubber Ring for Water Claw Couplings LÜDECKE WaterProfi and all Standard Water Claw Couplings (not for GEKA plus)

Material	Colour	shore h. A	∅i	∅a	l	Weight/pc. g		Type No.
EPDM	black	70°	23.5	35	12	6	100	GKOR



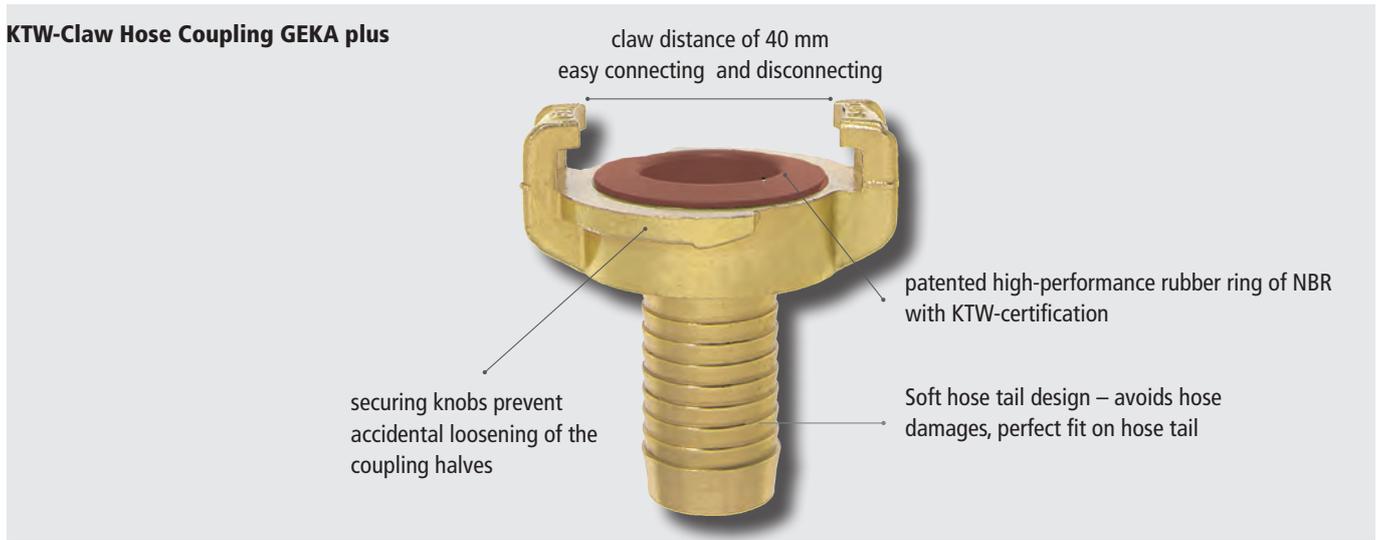


GEKA plus – Claw Couplings of brass for drinking water applications

The GEKA plus - Claw Couplings made of forged brass are the ideal all-rounders for drinking water applications. These products are approved according to DIN 50930/6, DVGW-W270 and KTW. Additionally, the claw couplings have a patented high performance rubber ring of NBR with optimum elasticity.

Advantages

- Easy to connect, high pressure and vacuum capabilities, reduced breakdown torque
- Maximum passage with optimum wall thickness, safe and hose sparing hose barbs
- Ergonomically formed claws, securing knobs against accidental loosening



Easy handling – Safe and firm hold



The principle of connecting is identical with the functioning of the WaterProfi Claw Couplings. Both couplings are connected at the front end side in order to connect the sealing surfaces. Afterwards one coupling half has to be twisted against the other until end stop – the plug locks into place.

GEKA plus - Claw Couplings

of brass for drinking water applications according to KTW

- High quality couplings of forged brass CW 617N, DIN 50930/6
- Easy to couple, high pressure and vacuum-spectrum, reduced "breakdown torque"
- Maximum bore at optimum wall thickness as well as soft hose tail design
- Ergonomic formed claws, optimum security against accidental opening
- Patented high performance rubber ring of NBR with perfect elasticity and resistance
- DVGW-Test-Certified, Reg. Nr. DW-0310BT0218
- Meet the requirements of DIN 50930/6, DVGW-W270, KTW
- **Universal coupling for drinking water lines**



Max. Working Pressure	Temperature	Material	Mat. Seal	Medium	Threads	Claw Distance	
PN 25 bar	-30° to +90°C	CW617N	NBR	water	ISO 228	40 mm	10

KTW-Hose Claw Couplings GEKA plus

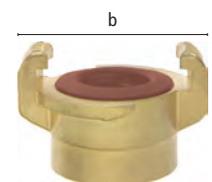
Hose i. D.	DN	b	l	Weight/pc. g	Type No.
1/2" = 13 mm	10	53.5	49.5	71	GSK 13-KTW
3/4" = 19 mm	17	53.5	53.5	100	GSK 19-KTW
1" = 25 mm	21.5	53.5	57.5	119	GSK 25-KTW

For hose clips type HS (© catalogue page 345), type ZOS (© catalogue page 344)
or crimping ferrules type LPH (© catalogue page 347)



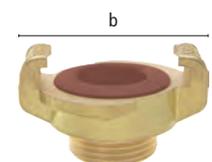
KTW-Female Thread Claw Couplings GEKA plus with thread sealing ring

Thread	DN	b	l	Weight/pc. g	Type No.
G 3/8"	11	53.5	31	94	GKI 38-KTW
G 1/2"	14	53.5	31	94	GKI 12-KTW
G 3/4"	19	53.5	32	90	GKI 34-KTW
G 1"	23	53.5	33	100	GKI 10-KTW



KTW-Male Thread Claw Couplings GEKA plus

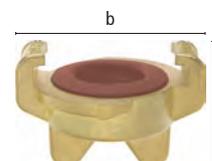
Thread	DN	b	l	Weight/pc. g	Type No.
G 1/2"	15	53.5	31	85	GKA 12-KTW
G 3/4"	20	53.5	32	91	GKA 34-KTW
G 1"	23	53.5	31	90	GKA 10-KTW
G 1 1/4"	23	53.5	35	99	GKA 54-KTW



Male Thread Sealing with PVC-Selaing Rings Typ HPD (© catalogue page 189)

KTW-Blank End Claw Couplings GEKA plus

Version	b	l	Weight/pc. g	Type No.
without chain	53.5	35	90	GKO-KTW



Original Rubber Ring for GEKA plus Couplings for drinking water according to directive DIN 50930/6

Material	Colour	shore h. A	Øi	Øa	h	Weight/pc. g		Type No.
NBR	brown	65°	20.5	33.5	10.8	5	10	GKOR-KTW



Original Rubber Ring for GEKA plus-Couplings (not for WaterProfi)

Material	colour	Shore A	Øi	Øa	h	Weight/pc. g		Type No.
NBR	black	65°	20.5	33.5	10.8	4	100	GKOR-N





GEKA plus – Claw Couplings of chromium steel for applications with elevated hygienic requirements

The GEKA plus- Claw Couplings of chromium steel fit especially for applications in the chemical industry, food or beverage industry or pharmacy, for water, lye and aggressive mediums. The coupling contains a patented special rubber ring FKM with optimum elasticity.

Advantages

- Easy to connect, high pressure and vacuum capabilities, reduced "breakdown torque"
- Soft hose tail design - avoids hose damages, perfect fit on hose tail
- Ergonomically formed claws, securing knobs against accidental loosening

Hose Claw Couplings GEKA plus

claw distance of 40 mm
easy connecting and disconnecting

secured knobs prevent accidental loosening of the coupling halves

patented high-performance rubber ring of FKM

safe and hose sparing hose barb for perfect hose fit
elevated hygiene requirements

elevated hygienic requirements

Easy handling – Safe and firm hold



The principle of connecting is identical with the functioning of the WaterProfi Claw Couplings. Both couplings are connected at the front end side in order to connect the sealing surfaces. Afterwards one coupling half has to be twisted against the other until end stop – the plug locks into place.

GEKA plus Claw Couplings

of chromium steel for applications with elevated hygienic requirements

- High quality couplings of of chromium steel 1.4571
- Easy to couple, high pressure and vacuum-spectrum, reduced "breakdown torque"
- Maximum bore at optimum wall thickness as well as soft hose tail design
- Ergonomic formed claws, optimum security against accidental opening
- Patented high performance rubber ring of FKM with perfect elasticity and resistance
- **Universal coupling for applications in chemical industry, food or drinking industry or pharmacy, for water or aggressive media**

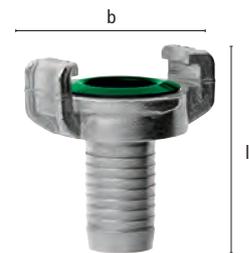


Max. Working Pressure	Temperature	Material	Mat. Seal	Medium	Threads	Claw Distance	⊞
PN 25 bar	-20 to +160°C	Chromium	FKM	water / lyes	ISO 228	40 mm	5

Hose Claw Couplings GEKA plus

Hose i. D.	DN	b	l	Weight/pc. g	Type No.
1/2" = 13 mm	10	53.5	50	89	GSK 13 SS
3/4" = 19 mm	17	53.5	52.5	92	GSK 19 SS
1" = 25 mm	21.5	53.5	57.5	117	GSK 25 SS

For hose clips type SLE (⊞ catalogue page 343) , HSE (⊞ catalogue page 346), type ZOS (⊞ catalogue page 344) or crimping ferrules type LPH (⊞ catalogue page 347)



Female Claw Couplings GEKA plus with thread sealing ring

Thread	DN	b	l	Weight/pc. g	Type No.
G 1/2"	14	53.5	30.5	82	GKI 12 SS
G 3/4"	19	53.5	31.5	88	GKI 34 SS
G 1"	23	53.5	32.5	100	GKI 10 SS



Male Claw Couplings GEKA plus

Thread	DN	b	l	Weight/pc. g	Type No.
G 1/2"	15	53.5	30.5	80	GKA 12 SS
G 3/4"	20	53.5	33	91	GKA 34 SS
G 1"	23	53.5	31	86	GKA 10 SS

Male thread sealing with sealing ring type HPD (⊞ catalogue page 189)



Blank End Claw Coupling GEKA plus

Version	b	l	Weight/pc. g	Type No.
Without Chain	53.5	36.5	85	GKO SS



Original Rubber Ring for GEKA plus-Couplings of chromium steel

Material	colour	Shore A	∅i	∅a	l	Weight/pc. g	⊞	Type No.
FKM	green	65°	20.5	33.5	10.8	5	10	GKVR-N





Accessories

For water applications, as well as pneumatic use

LUDECKE offers a wide range of accessories related to the water coupling and nozzle program, which offers a perfect fit and a great variation range to combine these products according to your needs.

Swivel transmission fittings



Are designed to be used in hose or tubing applications in which the components are highly effected by rotations and vibrations. (e.g. hose reels, ..)

- Avoids any kind of kinking and abrasion to the hose and hose connection
- Medium transport without outside influences regarding efficiency and flow
- For applications with rolling possibilities and connectors with heavy strains due to vibrations, twisting and sideways movements
- Also available with KTW (drinking water) certification

Hose screw type fittings



Screw type fittings are often used as a solid connection on machines or to connect hoses. We recommend the screw fittings on hose connection to hose reels or wall mounted reels.

- Solid connection from hose to tool / machine
- Robust, safe, leak proofed and durable
- Available in brass and brass nickel-plated

Additional accessories



Further components are offered by **LUDECKE**, refer to the next pages:

- Fittings
- Water tabs / valves
- Non return valves and check valves
- Male threaded sleeve screw connection
- Hose Clips, hose clamps of steel and stainless steel, low pressure crimping sleeve/ ferrules, manual crimping assembly machine (☺ page 343)

Swivel transmission

made of brass for water applications

- Superior quality level made of special brass (ecoBrass)
- Verification on KTW – drinking water approval
- High resistant swivel joint, offering optimized flow rates for industrial use
- For pneumatic and fluid applications with rotating movement and heavy restrained connectors through vibrations, twisting and sideway movements

Max. Working Pressure	Material	Medium	Thread
PN 10 bar	MS 58	Water	ISO 228

Swivel transmission straight made of brass nickel-plated

Connection port	Connection port	Version	l	b	Weight/pc. g	⊗	Type No.
3/4"	3/4"	straight	54	34	180	1	DV 34 IA
1"	1"	straight	60	45	350	1	DV 10 IA

Swivel transmission 90° brass nickel-plated

Connection port	Connection port	Version	l	b	Weight/pc. g	⊗	Type No.
3/4"	3/4"	90°	74	55	410	1	DV 3490 IA

Swivel transmission brass with KTW certification

Connection port	Connection port	Version	l	b	Weight/pc. g	⊗	Type No.
3/4"	3/4"	straight	54	34	180	1	DV 34 IA T
1"	1"	straight	60	45	350	1	DV 10 IA T



Hose screw type fittings

made of brass for water applications

- Superior quality level made of brass MS 58
- Quick to release connection from hose to tools
- Robust, safe, leak proof and durable

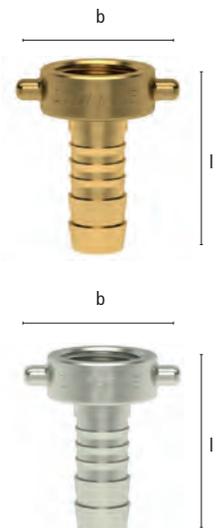
Max. Working Pressure	Material	Medium	Thread
PN 10 bar	MS 58	Water	ISO 228

Hose screw type fitting made of brass, female threads and union nut

Thread	Hose i.D.	l	b	Weight/pc. g	⊗	Type No.
G 1/2"	13	46	40	55	10	12/13 M
G 3/4"	13	46.5	45	66	10	34/13 M
G 3/4"	16	46.5	45	72	10	34/16 M
G 3/4"	19	46.5	45	76	10	34/19 M
G 1"	19	48	60	127	10	10/19 M
G 1"	25	48	60	130	10	10/25 M

Hose screw type fitting made of brass nickel-plated, female threads and union nut

Thread	Hose i.D.	l	b	Weight/pc. g	⊗	Type No.
G 1/2"	13	46	40	55	10	12/13 MN
G 3/4"	13	46.5	45	66	10	34/13 MN
G 3/4"	16	46.5	45	72	10	34/16 MN
G 3/4"	19	46.5	45	76	10	34/19 MN
G 1"	19	48	60	127	10	10/19 MN
G 1"	25	48	60	130	10	10/25 MN



Fittings and water taps

made of brass

Advantages:

- Various dimensions for all kind of applications
- Robust, solid and sustainable
- Best flow capacity
- For water supply connection in industry, crafts, agriculture and households

Max. Working Pressure	Material	Medium	Threads
PN 10 bar	MS 58	water	ISO 228

2-way Distributor



Inlet	Outlet	DN	Weight/pc. g	⊠	Type No.
G 3/4" f	2 x G 3/4" m	15	85	5	DWS 34 Y

T-Connector with female thread



Connection	b	h	Weight/pc. g	⊠	Type No.
3 x G 1/2"	51	39.5	86	5	TSM 12
3 x G 3/4"	59	45.5	160	5	TSM 34
3 x G 1"	75	54	250	5	TSM 10

Elbow-Connector with female thread



Connection	l	Weight/pc. g	⊠	Type No.
2 x G 1/2"	25	83	5	WSM 12
2 x G 3/4"	30	115	5	WSM 34
2 x G 1"	33.5	204	5	WSM 10

Ball Valve Taps, brass nickel-plated with assembled hose screwing, handle aluminium red, ball hard chromium plated



Inlet	Outlet	Hose i. D.	a	Length handle	Weight/pc. g	⊠	Type No.
G 1/2" m	G 3/4" m	1/2" = 13 mm	105	55	210	5	WKH 12
G 3/4" m	G 1" m	3/4" = 19 mm	120	55	285	5	WKH 34

Return Valves and Check Foot Valves with strainer

made of brass

With the help of return valves water shut off in one direction is possible. Check foot Valves are Check Valves in assembled with a strainer. Thus, the draining of the suction line will be avoided after switching of the pump.

Advantages:

- Perfectly tight hold even with very low pressure through Perbunan sealing
- Hostaform wedge with double central slide

Max. Working Pressure	Temperature	Material body	Mat. Spring	Opening Pressure	Mat. Strainer	Threads	☰
PN 16 bar	up to +100°C	MS 58	stainless steel	appr. 0.02 bar	Stainless steel / Nylon	ISO 228	1

Return Valves with female thread

Thread	l	∅ d	Weight/pc. g	Type No.
G 1/4"	45	28.5	105	RSV 14
G 3/8"	45	28.5	93	RSV 38
G 1/2"	47.5	30	100	RSV 12
G 3/4"	53	37	159	RSV 34
G 1"	59	44.5	239	RSV 10
G 1 1/4"	66	56	348	RSV 54
G 1 1/2"	71	62.5	450	RSV 15
G 2"	80	78.5	730	RSV 20



Check Foot Valves with strainer, outlet with female thread

Thread	l	∅ d	Weight/pc. g	Type No.
G 3/8"	89	28.5	90	FVMF 38
G 1/2"	90	29.5	110	FVMF 12
G 3/4"	101	37	165	FVMF 34
G 1 1/4"	126	56	390	FVMF 54
G 1 1/2"	140	63	500	FVMF 15
G 2"	165	78	800	FVMF 20



Male Thread sleeve screw connection with Thread Ferrule

of brass for water for perfect hose assembly

- Easy hose assembly with thread ferrule, multiple use and detachable
- Hose assembly free of dead space for optimized safety- and hygiene standards
- No dirt accumulation between hose and hose barb
- Version according to DIN 14 424
- Please note correct hose wall dimensions

Max. Working Pressure	Temperature	Material	Medium	Threads	☰
PN 25 bar	up to +95°C	MS 58	water	ISO 228	10

Male Thread sleeve screw connection with thread ferrule*

Hose Dimension	Threads	DN	Hexagon	l	Weight/pc. g	Type No.
1/2" = 13 x 3.0-3.8 mm	G1/2"	10	22	52	92	GSA 12-13
3/4" = 19 x 3.8-4.2 mm	G3/4"	17	32	53.5	143	GSA 34-19
1" = 25 x 4.4-5 mm	G1"	22	36	58.5	252	GSA 10-25



*Assembly instructions for thread ferrules (☰ catalogue page 359)



Blister packaging



Practically packed:

For ideal presentation at the POS (point of sale)

Many of the WaterProfi (Quick Connect Couplings Series WS and Claw Couplings) range is available in the easy and neat blister packs

Advantages:

- Single packaging
- Protection against dust and dirt
- Superior presentation of products at POS
- Visual presentation of application and function
- Multi lingual description (D, F, I, GB)
- Euro standards for shelf rack hanging systems
- Recyclable PET covers

Minimum order quantity per part number incl. blister packaging: 10 pcs.

WaterProfi Quick Connect Couplings



b



b

WaterProfi-Couplings with hose stem and free passage - in Blister packaging

Hose i.D.	b	l	h	Weight/pc. g	Type No.
1/2" = 13 mm	90	200	33.5	178	WS 13 TBL
5/8" = 16 mm	90	200	33.5	179	WS 16 TBL
3/4" = 19 mm	90	200	33.5	186	WS 19 TBL

framed in Blister packaging No. 2

WaterProfi-Couplings with female thread and valve (automatic shut-off) - in Blister packaging

Thread	b	l	h	Weight/pc. g	Type No.
G 3/4"	90	200	33.5	185	WS 34 IABBL

framed in Blister packaging No. 2

These sizes here are the articles inclusive blister packages. For special product information and data (© page 236).

Blister packaging

WaterProfi Quick Connect Couplings



From mid 2016!

WaterProfi-Screwing hose stems (for Combination with WaterProfi Coupling with female thread) - in Blister packaging

Thread	Hose i.D.	b	l	h	Weight/pc. g	Type No.
G 3/4" male	1/2" = 13 mm	90	200	33.5	50	WS 13 GTBL
G 3/4" male	5/8" = 16 mm	90	200	33.5	51	WS 16 GTBL
G 3/4" male	3/4" = 19 mm	90	200	33.5	62	WS 19 GTBL

framed in Blister packaging No. 2

WaterProfi-Plugs with hose stem - in Blister packaging

Hose i.D.	b	l	h	Weight/pc. g	Type No.
1/2" = 13 mm	90	200	33.5	66	WS 13 SBL
5/8" = 16 mm	90	200	33.5	66	WS 16 SBL
3/4" = 19 mm	90	200	33.5	75	WS 19 SBL

framed in Blister packaging No.2

WaterProfi-Plugs with female thread (valve adaptor) (With female thread sealing ring) - in Blister packaging

Thread	Hexagon	b	l	h	Weight/pc. g	Type No.
G 3/4"	30	90	200	33.5	81	WS 34 NIBL

framed in Blister packaging No. 2

WaterProfi-Plug-Adaptor - in Blister packaging

DN	b	l	h	Weight/pc. g	Type No.
9	90	200	33.5	83	WSABL

framed in Blister packaging No.2

Hose screw type fitting made of brass nickel-plated, female threads and union nut - in Blister packaging

Thread	Hose i.D.	l	b	h	Weight/pc. g	Type No.
G 3/4"	13	46.5	45	46.5	79	34/13 MNBL
G 3/4"	16	46.5	45	46.5	85	34/16 MNBL
G 3/4"	19	46.5	45	46.5	89	34/19 MNBL

framed in Blister packaging No. 3

WaterProfi-Spray Nozzles with plug or hose stem - in Blister packaging

Anschluss	DN	b	l	h	Weight/pc. g	Type No.
Stecknippel WaterProfi	6.5	90	200	34.5	321	WSD-SBL
SLW 1/2" = 13mm	6.5	90	200	34.5	315	WSD 13 TBL
SLW 5/8" = 16 mm	6.5	90	200	34.5	316	WSD 16 TBL
SLW 3/4" = 19 mm	6.5	90	200	34.5	325	WSD 19 TBL

framed in Blister packaging No.1

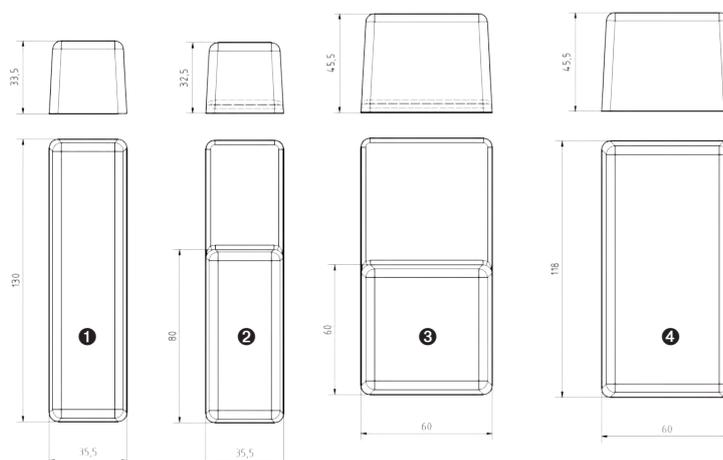
These sizes here are the articles inclusive blister packages. For special product information and data (© page 236 –237).



NEW!

Blister packaging

WaterProfi Claw Couplings



From mid 2016!



b

WaterProfi Hose Claw Couplings - in Blister packaging

Hose i.D.	DN	b	l	h	Weight/pc. g	Type No.
1/2" = 13 mm	10.5	90	200	46.5	94	GSK 13BL
5/8" = 16 mm	13.5	90	200	46.5	102	GSK 16BL
3/4" = 19 mm	16.5	90	200	46.5	102	GSK 19BL

framed in Blister packaging No.3



b

WaterProfi Female Claw Couplings with thread sealing ring - in Blister packaging

Thread	DN	b	l	h	Weight/pc. g	Type No.
G 1/2"	14	90	200	46.5	97	GKI 12BL
G 3/4"	19	90	200	46.5	102	GKI 34BL

framed in Blister packaging No.3



b

WaterProfi Male Claw Couplings - in Blister packaging

Thread	DN	b	l	h	Weight/pc. g	Type No.
G 1/2"	15	90	200	46.5	96	GKA 12BL
G 3/4"	20	90	200	46.5	100	GKA 34BL

framed in Blister packaging No.3



b

WaterProfi Blank End Claw Coupling - in Blister packaging

Version	b	l	h	Weight/pc. g	Type No.
Without Chain	90	200	46.5	103	GKOB

framed in Blister packaging No.3



b

Original Rubber Ring for Water Claw Couplings LÜDECKE WaterProfi and all Standard Water Claw Couplings (not for GEKA plus) - in Blister packaging

Material	b	l	h	Weight/pc. g	Type No.
EPDM	90	200	46.5	6	GKORBL

framed in Blister packaging No. 3

These sizes here are the articles inclusive blister packages. For special product information and data (© page 244).

Blister packaging

WaterProfi Claw Couplings



From mid 2016!

WaterProfi MODY-Safety-Screwing-Hose Claw Couplings - in Blister packaging

Hose i.D.	DN	b	l	h	Weight/pc. g	Type No.
1/2" = 13 mm	10	90	200	46.5	190	GSSG 13BL
3/4" = 19 mm	16.5	90	200	46.5	215	GSSG 19BL

framed in Blister packaging No. 4



b

Original Rubber Ring with support ring of brass for MODY-Screwing Couplings of brass - in Blister packaging

Material	b	l	h	Weight/pc. g	Type No.
NBR/MS	90	200	46.5	6	GSGOR-SETBL

framed in Blister packaging No.3



b

Spray Nozzles heavy version – conical sealing brass to brass (PN 10 bar) - in Blister packaging

Connection	Nozzle bore	b	l	h	Weight/pc. g	Type No.
Stem Hose i.D. 1/2" = 13 mm	5 mm	90	200	34.5	115	SDT 13BL
Stem Hose i.D. 3/4" = 19 mm	6.5 mm	90	200	34.5	245	SDT 19BL

framed in Blister packaging No. 1



b

		b	l	h	Weight/pc. g	Type No.
WaterProfi-Coupling	5 mm for hose 1/2"	90	200	46.5	220	SDK 12BL
WaterProfi-Coupling	6,5 mm for hose 3/4"	90	200	46.5	310	SDK 34BL

framed in Blister packaging No.4



b

Male Thread sleeve screw connection with thread ferrule - in Blister packaging

for Hose	Thread	DN	SW	b	l	h	Weight/pc. g	Type No.
1/2" = 13 x 3.0-3.8 mm	G1/2"	10	22	90	200	46.5	105	GSA 12-13BL
3/4" = 19 x 3.8-4.2 mm	G3/4"	17	32	90	200	46.5	156	GSA 34-19BL
1" = 25 x 4.4-5 mm	G1"	22	36	90	200	46.5	265	GSA 10-25BL

framed in Blister packaging No. 3



b

These sizes here are the articles inclusive blister packages. For special product information and data (© page 244 –245, 253).

ALBA KRAPP Hose Reels, Wall Hose Reels and Wall Hose Holders

Long range water supply, secured and flexible stowed



ALBA KRAPP products offer high quality and lifelong guarantee. They are completely made of steel and UV resistant. Through environmentally friendly materials they may be classified as completely recyclable and thus, they make a valuable contribution to a sustainable production. The wide range of products ideally meets the needs of the private and professional field.



Quality Surface

- Best protection against corrosion due to zinc-plated surface
- Environmentally friendly galvanizing (chrome VI free according to ISO 9001)



High Stability

- Highest tilt firmness due to optimized balance point
- Steady and floor protecting overlay



Perfect Balance

- Easy to drive as the weight lies on the axle
- Comfortable level of transportation: long and handy handle



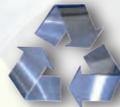
Easy Assembly

- Simple assembling
- Demountable handle for a space-saving storage



Lifetime-Quality

- Construction completely made of steel
- UV resistant



Ecology

- Environmentally friendly materials
- Totally recyclable



High Waterflow

- High water passage, 1/2", 3/4", 1"
- Comfortable hose Connection (no buckling)



Quality Wheels

- Big, handy, easy to drive and lawn sparing tread wheels
- Resistant and reinforced



Wide Range of Wall Hose Reels

- Wall-mounting with continuous adjustment
- Swivelling for optimal application angle



Water fittings

- a high-quality system connection, system compatible with the standard plug profile



Established since 1907 – Reasonable details make the difference!

Delivery is effected in a 4-colour carton box, in 4 languages including technical data, user information and assembly instruction.

ALBA KRAPF Hose Reels, Wall Hose Reels and Wall Hose Holders

Hose Reels for private use:

comfortable level of transportation: easy to drive thanks to a long and handy handle

Robust whole metal construction: UV resistant and environmentally friendly galvanized (chrome VI free zinc-plated)

double bearing: hose reel and crank handle in the steel bearing

reel drum construction to avoid damage on hose – no kinking

swivelling connector with ball bearing: simple reeling and unrolling

big, stable tread wheels



Hose Reel ALBA SILVER Series II

Light Hose Reel model are ideally suited for terraces and balconies as well as small and medium gardens

Hose Reels for professional use:

very robust whole metal construction, best rust protection due to hot galvanization, virtually indestructible

double bearing: hose reel and crank handle in the steel bearing

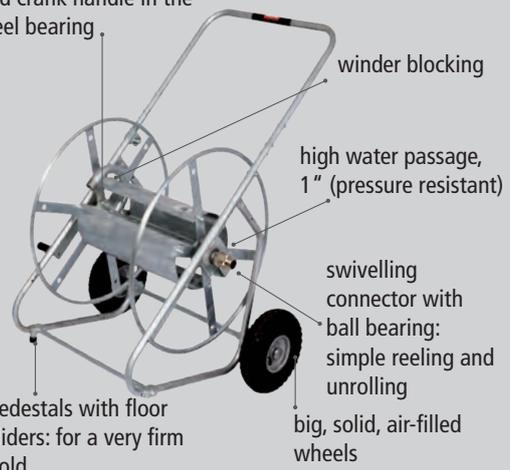
winder blocking

high water passage, 1" (pressure resistant)

swivelling connector with ball bearing: simple reeling and unrolling

pedestals with floor sliders: for a very firm hold

big, solid, air-filled wheels



Hose Reel ALBA PROFI

The stable whole metal construction is ideally suited for regular and demanding applications in the professional field (e.g. horticulture and landscaping, industry and commerce, water supply)



Wall Hose Reels for private use:

whole metal construction: UV resistant and environmentally friendly galvanized (chrome VI free zinc-plated)

reel drum construction to avoid damage on hose – no kinking

Wall construction with enlarged and safe fixing set

winder locking by magnetic hanger

180° infinite swivel position, snap in locking in 6 given positions, mechanical swivelling stop



Wall Hose Reel ALBA STATUS Series III

Wall Hose Reels for professional use:

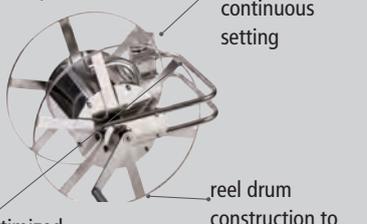
completely made of electropolished stainless steel and very robust

high water passage, 3/4" (pressure resistant)

Wall holder with continuous setting

adjustable for optimized positioning

reel drum construction to avoid damage on hose – no kinking



Wall Hose Reel ALBA STATUS INOX Series III



Hose reel trolley sets

Plug and play – assembled and fully equipped

Hose reel trolley sets consist of all needed components, supplied in one box. Unpack it, assemble it then plug in and start working.



Models:

ALBA ROYAL Series II
for frequent use in professional applications or bigger gardening sceneries

(© page 264)

ALBA STAR Series II
for demanding and daily use in professional applications, such as parks, plant nurseries, swimming pools, workshops

(© page 265)

Contains of

1 x ALBA ROYAL Series II or
1 x ALBA STAR Series II

1 X 3/4" MN
(Hose screw type fitting made of brass nickel-plated, female threads and union nut) G3/4" IG; Hose i.D.13

4 X LPH-19,5
(Ferrules, steel, zinc plated) ID 19.5 MM

1 x 2m hose – as a feed line from the plug
1 x 25m Tricoflex water hose –high-quality PVC-Water Hose



1 X WSD-S
(WaterProfi-Spray Nozzle with plug)



3 X WS 13 T
(WaterProfi Quick Connect Couplings with hose stem), Hose i.D. 13 MM, free passage



2 X WS 34 NI
(WaterProfi-Plugs with female thread), G3/4" IG

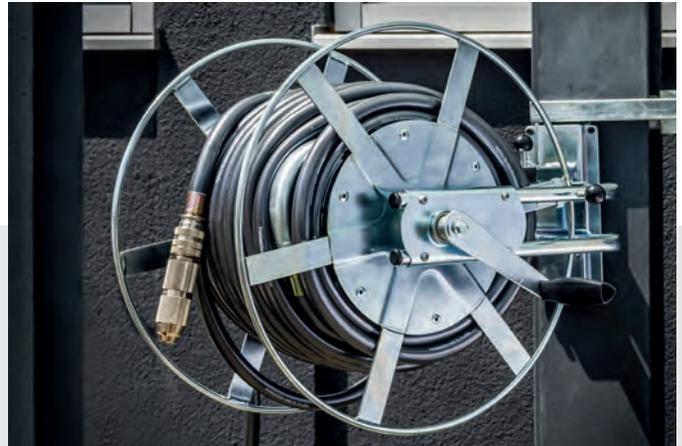
Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm) = 120 m, 5/8" (16 mm) = 100 m, 3/4" (19 mm) = 80 m, 1" (25mm) = 50 m	1

Connection	Hose i.D.	Type No.
3/4" male	13 – 16 – 19 – 25 mm	ALBA STAR2 SET
3/4" male	13 – 16 – 19 mm	ALBA ROYAL2 SET

Hose trolley set for wall mounting

Plug and play – assembled and fully equipped

Wall mounting hose reel set consist of all needed components, supplied in one box.
Unpack it, assemble it then plug in and start working.



Models:

ALBA STATUS Series III

for regular and demanding use in professional and non commercial applications

(© page 268).

Contains of

1 x ALBA STATUS Serie III



2 X WS 34 NI
(WaterProfi-Plugs with female thread), G3/4" IG



1 X 34/13 MN
(Hose screw type fitting made of brass nickel-plated, female threads and union nut) G3/4" IG; Hose i.D. 13



4 X LPH-19,5
(Ferrules, steel, zinc plated) ID 19.5 MM



3 X WS 13 T
(WaterProfi Quick Connect Couplings with hose stem), Hose i.D. 13 MM, free passage



1 X WSD-S
(WaterProfi-Spray Nozzle with plug)

1 x 2m hose – as a feed line from the plug
1 x 25m Tricoflex water hose –high-quality PVC-Water Hose

Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13mm) = 70 m, 5/8" (16mm) = 60 m, 3/4" (19mm) = 40 m	1

Connection	Hose i.D.	Type No.
3/4" male	13 – 16 – 19 mm	ALBASTATUS3 SET

Hose Reel ALBA IRON MAN Series II

Light model for non-commercial use in small and medium gardens



Material

- Robust whole metal construction, side reel of sheet metal, UV resistant and environmentally friendly galvanized (chrome VI free zinc-plated)

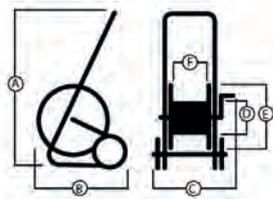
Technical data/description

- Assembly set: with manual, assembled in a few minutes
- Reel drum construction to avoid damage on hose – no kinking
- Wide, solid tread wheels
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and handy handle, easy to drive
- Highest tilt firmness
- Without hose, pre-assembled in carton box



Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm) = 100 m, 5/8" (16 mm) = 80 m, 3/4" (19 mm) = 50 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 – 19 mm	8.5 kg	ALBA IRON MAN2



- Ⓐ Total height: 947 mm
- Ⓑ Total length: 562 mm
- Ⓒ Total width: 530 mm
- Ⓓ Reel inside: 180 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Reel width: 256 mm



Hose Reel ALBA SILVER Series II

Light model for non-commercial use in small and medium gardens

Material

- robust whole metal construction, UV resistant and environmentally friendly galvanized (chrome VI free zinc-plated)

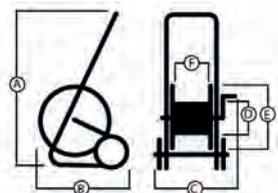
Technical data/description

- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 3/4", durable and resistant
- Wide, solid tread wheels
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and handy handle, easy to drive
- Highest tilt firmness
- Without hose, pre-assembled in carton box



Wasseranschluss	Max. Betr. Druck	Max. Schlauchlänge	
3/4"	25 bar	1/2" (13 mm) = 100 m, 5/8" (16 mm) = 80 m, 3/4" (19 mm) = 50 m	1

Anschluss	SLW	St.gew. kg	Art.Nr.
3/4" male	13 – 16 – 19 mm	8.5 kg	ALBA SILVER2



- Ⓐ Total height: 947 mm
- Ⓑ Total length: 562 mm
- Ⓒ Total width: 530 mm
- Ⓓ Reel inside: 180 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Reel width: 256 mm



Hose Reel ALBA ROYAL Series II

For regular and demanding use in the professional sector and for private use in larger gardens



Material

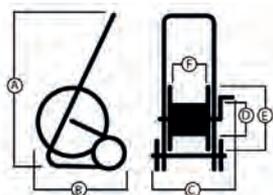
- Robust whole metal construction, UV resistant and environmentally friendly galvanized (chrome VI free zinc-plated)

Technical data/description

- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 3/4", durable, resistant
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and handy handle, easy to drive
- Highest tilt firmness: wide wheel axle and long main pillars
- Without hose, pre-assembled in carton box

Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm) = 100 m, 5/8" (16 mm) = 80 m, 3/4" (19 mm) = 50 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 – 19 mm	12 kg	ALBA ROYAL2



- Ⓐ Total height: 977 mm
- Ⓑ Total length: 564 mm
- Ⓒ Total width: 533 mm
- Ⓓ Reel inside: 228 mm
- Ⓔ Reel wheel: 508 mm
- Ⓕ Reel width: 245 mm

Hose Reel ALBA FOREVER

For regular and demanding applications in the professional sector and for private use in larger gardens



Material

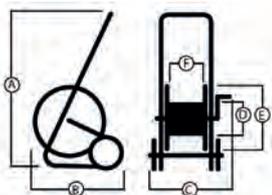
- robust whole metal construction, UV resistant and environmentally friendly galvanized (chrome VI free zinc-plated)

Technical data/description

- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 3/4", durable, resistant
- Wide, solid rubber wheels
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and handy handle, easy to drive
- Highest tilt firmness, stable construction for perfect stand
- Additional slip resistant stoppers on trolley frame
- Simple assembling; demountable handle for a space-saving storage
- Without hose, pre-assembled in carton box

Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm) = 70 m, 5/8" (16 mm) = 60 m, 3/4" (19 mm) = 40 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 – 19 mm	12.3 kg	ALBA FOREVER



- Ⓐ Total height: 996 mm
- Ⓑ Total length: 566 mm
- Ⓒ Total width: 528 mm
- Ⓓ Reel inside: 229 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Reel width: 243.5 mm

Hose Reel ALBA STAR Series II

For a regular demanding daily use and need of long length hose in the professional sector, i.e. in plant nurseries, parks, sports grounds, swimming pools, industrial units, workshops

Material

- Robust whole metal construction, UV resistant and environmentally friendly galvanized (chrome VI free zinc plated)
- Completely hot galvanized version (ALBA STAR PR02) on request

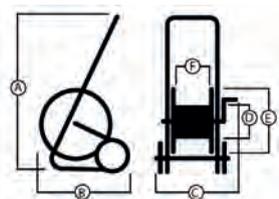
Technical data/description

- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 3/4", durable, resistant
- Double bearing: hose reel and crank handle in the steel bearing
- Without hose, pre-assembled in carton box
- Additional slip resistant stoppers on trolley frame
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and handy handle, easy to drive
- Highest tilt firmness



Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm) = 120 m, 5/8" (16 mm) = 100 m, 3/4" (19 mm) = 80 m, 1" (25 mm) = 50 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 – 19 – 25 mm	14 kg	ALBA STAR2



- Ⓐ Total height: 1025 mm
- Ⓑ Total length: 605.6 mm
- Ⓒ Total width: 614 mm
- Ⓓ Reel inside: 226 mm
- Ⓔ Reel wheel: 555 mm
- Ⓕ Reel width: 296 mm

Hose Reel ALBA STAR INOX Series II

For the food industry: ideal for cheese dairies, creameries, butcheries, bakeries, medical laboratories, swimming pools etc.

Material

- Totally made of electropolished stainless steel

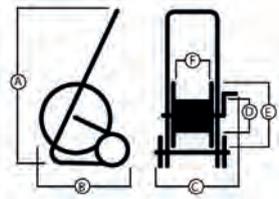
Technische Daten/Beschreibung

- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 3/4", durable, resistant
- Wide, solid rubber wheels (abrasion-proof)
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and handy handle, easy to drive
- Highest tilt firmness
- Additional slip resistant stoppers on trolley frame
- Without hose, pre-assembled in carton box



Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm) = 120 m, 5/8" (16 mm) = 100 m, 3/4" (19 mm) = 80 m, 1" (25 mm) = 50 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 – 19 – 25 mm	14 kg	ALBA STAR IN2



- Ⓐ Total height: 1030 mm
- Ⓑ Total length: 609.5 mm
- Ⓒ Total width: 610 mm
- Ⓓ Reel inside: 228 mm
- Ⓔ Reel wheel: 555 mm
- Ⓕ Reel width: 296 mm



Hose Reel ALBA AQUA STAR Series II



For potable water applications at catering services, companies in the sector of water supply etc.



Material

- Robust whole metal construction, UV resistant and environmentally friendly galvanized (chrome VI free zinc-plated), connection elbow stainless steel

Technical data/description

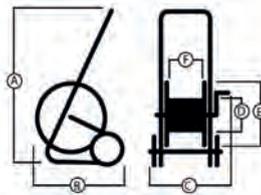
- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 3/4", durable, resistant
- Wide, solid rubber wheels
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and handy handle, easy to drive
- Highest tilt firmness
- Without hose, pre-assembled in carton box



Water Connection	Norm	Max. Working Pressure	Max. Hose Length	
3/4"	KTW/W270 DVGW	25 bar	1/2" (13 mm) = 120 m, 5/8" (16 mm) = 100 m, 3/4" (19 mm) = 80 m, 1" (25 mm) = 50m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 – 19 – 25 mm	14 kg	ALBA AQUA STAR2

The ALBA AQUA STAR conforms to the legal Drinking Water Ordinance and the applied materials are approved and certified for potable water respectively food processing industry. The intention of the Drinking Water Ordinance is above all the protection of human health, the guarantee of consumption suitability and pureness of water for the human use.



- Ⓐ Total height: 1025 mm
- Ⓑ Total length: 605.6 mm
- Ⓒ Total width: 614 mm
- Ⓓ Reel inside: 226 mm
- Ⓔ Reel wheel: 555 mm
- Ⓕ Reel width: 296 mm

Hose Reel ALBA PROFI

For industry and crafts . Ideal for road construction, military, gravel plants, docks, fishery etc



Material

- Very robust whole metal construction, best rust protection due to hot galvanisation, virtually indestructible

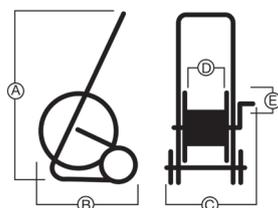
Technical data/description

- Steady tubular construction
- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 1", durable, resistant
- Big, solid, air-filled wheels with steel wheels
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Winder blocking
- Pedestals with floor sliders
- Highest tilt firmness as well as comfortable level of transportation
- Without hose, pre-assembled in carton box



Water Connection	Max. Working Pressure	Max. Hose Length	
1"	25 bar	5/8" (16 mm) = 120 m, 3/4" (19 mm) = 100 m, 1" (25 mm) = 60 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
1" male	16 – 19 – 25 mm	28 kg	ALBA PROFI



- Ⓐ Total height: 1065 mm
- Ⓑ Total length: 746 mm
- Ⓒ Total width: 704.5 mm
- Ⓓ Reel inside: 228 mm
- Ⓔ Reel wheel: 600 mm
- Ⓕ Reel width: 356 mm

Hose Reel ALBA SUPER PROFI

For industry and crafts. Ideal for road construction, military, gravel plants, docks, fishery etc.

Material

- Very robust whole metal construction, best rust protection due to hot galvanisation, virtually indestructible

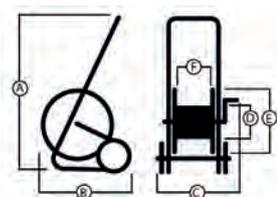
Technical data/description

- Steady tubular construction
- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 1", durable, resistant
- Big, solid, air-filled wheels with steel wheels
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Winder blocking
- Pedestals with floor sliders
- Highest tilt firmness as well as comfortable level of transportation
- Without hose, pre-assembled in carton box



Water Connection	Max. Working Pressure	Max. Hose Length	
1"	25 bar	5/8" (16 mm) = 150 m, 3/4" (19 mm) = 120 m, 1" (25 mm) = 80 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
1" male	16 – 19 – 25 mm	30 kg	ALBA SUPERPROFI



- Ⓐ Total height: 1065 mm
- Ⓑ Total length: 746 mm
- Ⓒ Total width: 804.5 mm
- Ⓓ Reel inside: 228 mm
- Ⓔ Reel wheel: 598 mm
- Ⓕ Reel width: 456 mm

Hose Reel System ALBA AQUA PORT

For potable water sector at catering services, food industry, sport events, open-air concerts etc.

Material

- Robust whole metal construction, UV resistant and environmentally friendly galvanized (chrome VI free zinc-plated)

Technical data/description

- Reel drum construction to avoid damage on hose – no kinking
- Connection elbow in stainless steel
- O-rings and lubricant according to KTW and W270
- Double bearing: hose reel and crank handle in the steel bearing
- Pedestals with floor-protection hose

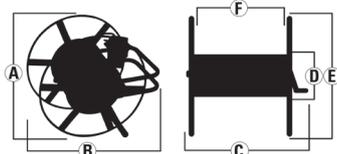
The hygienic foresight for potable water and the quality protection of potable water plays an immense role in regard to its increasing and varied applications.

The ALBA AQUA PORT conforms to the legal Drinking Water Ordinance and the applied materials are approved and certified for potable water respectively food processing industry.

The intention of the Drinking Water Ordinance is above all the protection of human health, the guarantee of consumption suitability and pureness of water for the human use. That is water for drinking, cooking, preparation of food and drinks or in particular for the following domestic purposes: body care, cleaning of objects which can get in touch with food.

Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	12 bar	1/2" (13 mm) = 50 m, 3/4" (19 mm) = 40 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 19 mm	6.3 kg	ALBA AQUA PORT



- Ⓐ Total height: 593.4 mm
- Ⓑ Total length: 445 mm
- Ⓒ Total width: 397 mm
- Ⓓ Reel inside: 180 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Reel width: 140 mm

Wall Hose Reel ALBA STATUS Series III

For regular and demanding use in the professional and the privacy applications



Material

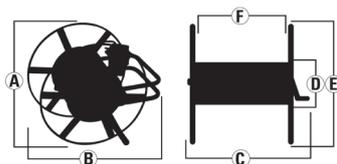
- robust whole metal construction, UV resistant and environmentally friendly galvanized (chrome VI free zinc-plated)

Technical data/description

- Reel drum construction to avoid damage on hose with convenient 3/4" connection - no kinking
- Central Waterflow
- Wall construction with enlarged and safe fixing set as well as robust double pipe-support
- Optimal overall size for a small wall distance
- Winder locking by magnetic hanger
- 180° infinite swivel position, snap in locking in 6 given positions, prevents collision with the wall
- Rugged and massive hand crank with ergonomic handle for a safe and easy hose reeling
- Hose reel double bearing
- Without hose, pre-assembled in carton box

Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm) = 70 m, 5/8" (16 mm) = 60 m, 3/4" (19 mm) = 40 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 – 19 mm	11.1 kg	ALBA STATUS 3



- Ⓐ Total height: 458 mm
- Ⓑ Total length: 554.5 mm
- Ⓒ Total width: 556 mm
- Ⓓ Reel inside: 229 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Reel width: 243.5 mm

Wall Hose Reel ALBA STATUS INOX Series III

For the food industry: ideal for cheese dairies, creameries, butcheries, bakeries, medical laboratories, swimming pools etc.



Material

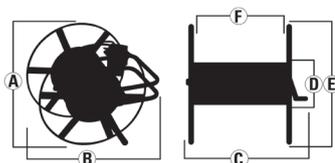
- Robust whole metal construction

Technical data/description

- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 3/4", durable, resistant
- Adjustable for optimized positioning
- Wall holder with continuous setting
- Easy wall assembly with separate wall socket, Hose Reel can simply be remounted sinistral or dexter
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Without hose, pre-assembled in carton box

Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm)) 70 m, 5/8" (16 mm) = 60 m, 3/4" (19 mm) = 40 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 – 19 mm	11.15 kg	ALBA STATUS IN3



- Ⓐ Total height: 458 mm
- Ⓑ Total length: 554.5 mm
- Ⓒ Total width: 556 mm
- Ⓓ Reel inside: 228 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Reel width: 243 mm

Hose reel (post) – TERRA

A stationary solution for hose reel applications, to be mounted on concrete grounds

Material

- Solid steel design, zinc plated

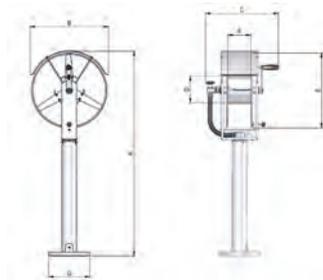
Technical data/description

- Drum design to avoid damage on hose with 45° hose connection and hose protection – no kinking
- Bearing based elbow fitting with tab
- Solid and robust handle with ergonomical designed grip to roll on the hose
- Magnetic winder locking manual mechanism
- Removable protection cover, ergonomical handling to be operated in hip height
- Not supplied with hose



Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm) = 50 m, 5/8" (16 mm) = 40 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 mm	14.6 kg	ALBA TERRA



- Ⓐ Total height: 1255 mm
- Ⓑ Total length: 476 mm
- Ⓒ Total width: 442 mm
- Ⓓ Reel inside: 180 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Reel width: 140 mm
- Ⓖ Base: 250 mm

Wall Hose Holder ALBA MIDI

For all sectors

Material

- robust whole metal construction, UV resistant and environmentally friendly galvanized (chrome VI free zinc-plated)

Technical data/description

- Statically solid
- Light construction
- Hose conserving, no hose buckling
- Hose capacity, at mounting level 1,5 m: 1/2" = 150 m, 5/8" = 120 m, 3/4" = 70 m, 1" = 50 m



Max. Hose Length	
Mounting Level 1,5 m: 1/2" (13 mm) = 150 m, 5/8" (16 mm) = 120 m, 3/4" (19 mm) = 70 m, 1" (25 mm) = 50 m	1

Hose i.D.	H	W	D	Weight/pc. kg	Type No.
13 – 16 – 19 – 25 mm	130 mm	220 mm	170 mm	1 kg	ALBA MIDI

Wall Hose Holder ALBA MIDI INOX

For the food industry



Material

- totally made of electropolished stainless steel

Technical data/description

- Statically solid
- Light construction
- Hose conserving, no hose buckling
- Hose capacity, at mounting level 1.5 m: 1/2" = 150 m, 5/8" = 120 m, 3/4" = 70 m, 1" = 50 m of hose



Max. Hose Length						1
Mounting Level 1.5 m, 1/2" = 150 m, 5/8" = 120 m, 3/4" = 70 m, 1" = 50 m						1

Hose i.D.	H	W	D	Weight/pc. kg	Type No.
13 - 16 - 19 - 25 mm	130 mm	220 mm	170 mm	0.9 kg	ALBA MIDI INOX

Wall Hose Holder ALBA BIG

For all sectors



Material

- Whole metal construction, best rust protection due to hot galvanisation, virtually indestructible

Technical data/description

- Very robust construction
- Statically solid
- Hose conserving, no hose buckling
- Hose capacity, at mounting level 1.5 m, 1/2" = 100 m, 5/8" = 80 m, 3/4" = 50 m, 1" = 25 m of hose



Max. Hose Length						1
mounting level 1.5 m, 1/2" = 100 m, 5/8" = 80 m, 3/4" = 50 m, 1" = 25 m						1

Hose i.D.	H	W	D	Weight/pc. kg	Type No.
3 - 16 - 19 - 25 mm	65 mm	310 mm	170 mm	1.4 kg	ALBA BIG

Water Tap Hose Holder ALBA bOy

For all sectors

Material

- ALBA bOy is available in zinc-plated steel resp. in RED and GREEN (2x) powder-coated

Technical data/description

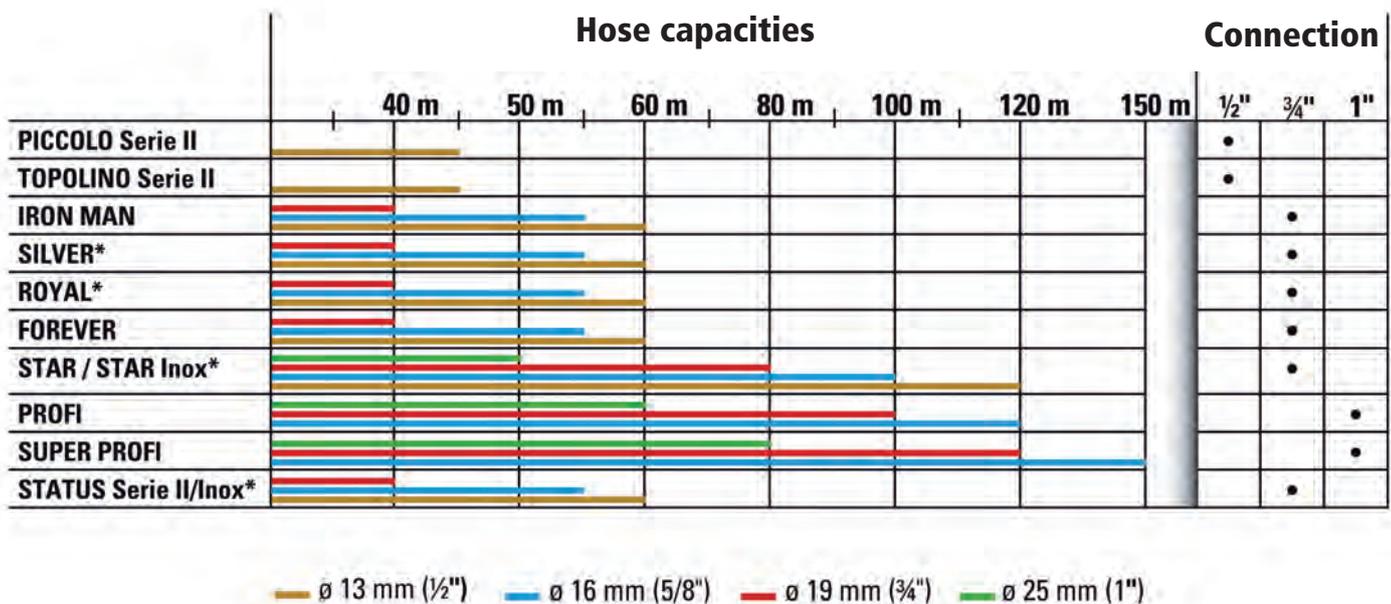
- Practical, without assembly
- Keeps the hose at the water tap
- High load capacity and space for up to 40 m of garden hose



colour	Max. Hose Length	
red green zinc plated	40 m	1

Colour	H	W	D	Weight/pc. kg	Type No.
silver	300 mm	80 mm	100 mm	0.666	ALBA BOY-S
red	300 mm	80 mm	100 mm	0.666	ALBA BOY-R
green	300 mm	80 mm	100 mm	0.666	ALBA BOY-G

Hose capacities overview



*Special models also available for potable water as „Aqua Hose Device“

LÜDECKE

STAINLESS STEEL



**Snow
Master**
by LÜDECKE

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**Snow
Master**
by **LUDECKE**





A superior product range of fittings and quick connect couplings for aggressive gaseous and fluid media



In applications with specific hygiene standards or in lines with aggressive (i.e. gaseous, chemicals, pharmaceuticals or varnish products) liquids, premium quick connect coupling systems are required. These systems allow a safe and reliable process within the connected system machinery or tool.

The **LUDECKE** Stainless Steel product portfolio made of Stainless Steel 1.4305, 1.4401 or 1.4404 allows the utilization in various applications and markets, such as:

- Pharma industry
- Chemical industry
- Medical industry
- Food & beverage applications
- Machine tool applications
- Clean room applications
- Pneumatic applications
- Motion and control
- Snow gun applications

Especially in high purity surroundings it is required to offer materials and surfaces which are easy to clean, which do not offer any notches or grooving to allow an easy cleaning with solvents or other high purification liquids.





The Stainless Steel range of products made by **LUDECKE**

From claw and Kamlok up to the state of the art quick connect coupling ranges – you will find the right product for nearly any application.





Quick Connect Coupling Systems

The right system for every area of application



A service free and efficient connection is the basis for all manufacturing processes.

The **LUDECKE CleanConnect**-Line product range (available as single and doubled shut-off) covers most all applications required in liquid and fluid sectors.

These coupling systems guarantee an easy and safe connection, whilst offering an ultimate sealing performance during operation and during the connection and disconnection process of single and double shut-off (valve) coupling systems.

Each and every application offers a specific challenge and requires a dedicated solution based on the used media in combination with its environmental influences.

LUDECKE offers solutions with its stainless steel range, a large scope of coupling systems from DN 2.7 up to DN 19. Supported by the **OptiFlow-Line** technology the combination of energy efficiency and medium resistance offers the most suitable and reliable industrial connection for the user.

Operation / Function of stainless steel quick coupling systems

Easy – Safe – Quick

All coupling systems from standard, mini, micro to industrial **OptiFlow** quick connect couplings offer the same function in handling – the concept of an easy quick to connect One-hand operation.



One-hand operation: Push the male part (plug) into the coupling and it locks automatically.



To disconnect, slide the sleeve back, whilst the locking mechanism (ball or pin locking) opens automatically and releases the plug.

LUDECKE Quick connect coupling systems made of stainless steel

	Micro Quick Connect Couplings	Mini Quick Connect Couplings	Standard Quick Connect Couplings	Industrial OptiFlow Quick Connect Couplings	Industry Quick Connect Couplings	Giant Quick Connect Couplings
						
Series/ nominal diameter	ESMCE DN 2.7*	ESME DN 5*	ESE DN 7.2*	ESIE DN 7.8*	ESIGE DN 10*	ESGE DN 19
Body, Sleeve, Valve body, Valve:	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4404			
Springs, Retaining ring:	Spring Steel 1.4310 Spring Steel 1.4571	Spring Steel 1.4310 Spring Steel 1.4571	Spring 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	Stainless Steel 1.4034 Stainless Steel 1.4404	Stainless Steel 1.4034 Stainless Steel 1.4404	Stainless Steel 1.4404
O-rings: Special seals for other media on request:	FKM EPDM, FFKM	FKM EPDM, FFKM	FKM EPDM, FFKM	FKM EPDM, FFKM	FKM NBR	FKM EPDM, FFKM
Plug:	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4305 Stainless Steel 1.4404	Stainless Steel 1.4404			
Max. Working Pressure:	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar	PN 35 bar
Temperature:	-15°C - + 150°C	-15°C - + 200°C	-15°C - + 200°C	-15°C - + 150°C	-15°C - + 150°C	-20°C - + 150°C
Thread connections:	ISO 228/ DIN 13	ISO 228/ DIN 13	ISO 228	ISO 228	ISO 228	ISO 228
Flow Capacity (air):	165 l/min	510 l/min	1150 l/min	1850 l/min	2150 l/min	8000 l/min
Valved:	Single shut-off / double shut-off/ non-valved	Single shut-off / double shut-off/ non-valved	Single shut-off / double shut-off/ non-valved			

* The above mentioned series are available in material qualities AISI 303 or AISI 316L - on request. Therefore, also the component materials are different of Springs/Retaining ring, Balls/Pins as well as plugs. Example: Body, etc.: Stainless Steel 1.4305 --> Springs/Retaining ring: Spring steel 1.4310 --> Balls: Stainless Steel 1.3541 --> Plug: 1.4305, but: Body, etc.: Stainless Steel 1.4404 --> Springs/Retaining ring: Spring Steel 1.4571 --> Balls: Stainless Steel 1.4404 --> Plug: 1.4404
Temperature resistance is subject to the suitable medium.

OptiFlow-Line - energy efficient quick connect coupling systems

A continuous process review in all engineering and production levels ensures **LUDECKE** to have a state of the art manufacturing process, which is always based on the latest technologies in productivity.

Due to these regular reviews, **LUDECKE** is able to provide best flow capabilities within the **OptiFlow-Line** and highest energy efficiency:

- Best flow rates
- Low pressure drop
- Dynamic valve design
- High energy efficiency
- Extra ordinary operational durability
- Best operation and sealing characteristics
- Low connecting / disconnecting forces
- Ergonomic and compact design



NEW!

Micro Quick Connect Couplings Stainless Steel

Series ESMCE single shut-off

DN 2.7

Clean Connect
by LUDECKE

- High quality one-hand operation couplings with smallest dimensions of stainless steel 1.4305
- Several fields of application, above all for liquid media in pharmacy, medical industry, chemical industry, food & beverage applications, clean room applications, for high quality measure, control and regulation technique or hygienic requirements
- Maximum working temperature subject to the chosen medium

Materials

- Connections, sleeve, valve body, valve, plug: stainless steel 1.4305
- Spring, retaining ring: stainless steel 1.4310; balls: stainless steel 1.4401
- O-rings: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-15°C – +150°C	ISO 228 / DIN 13	2.7	165 L/min	yes	single	different	Europe	5



Couplings with male thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
M 5	9	26	10.5	5	9	ESMCE 5 A
G 1/8"	11	28	10.5	7	12	ESMCE 18 A



Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
M 5	9	25	10.5	5	10	ESMCE 5 I
G 1/8"	12	28	10.5	7	14	ESMCE 18 I



Couplings with hose stem

Hose i. D.	l	d	Stem Length	Weight/pc. g	Type No.
3 mm	34.5	10.5	13	9	ESMCE 3 T
4 mm	34.5	10.5	13	10	ESMCE 4 T
5 mm	34.5	10.5	13	10	ESMCE 5 T

For hose clips type HSE (© catalogue page 337)



Couplings with hose squeeze nut

For Hose	Hexagon	l	d	Weight/pc. g	Type No.
3 x 4 mm	9	34	10.5	15	ESMCE 34 TQ
3 x 5 mm	9	34	10.5	15	ESMCE 3 TQ
4 x 6 mm	9	34	10.5	15	ESMCE 4 TQ



Couplings with hose squeeze nut and bulkhead screwing

For Hose	Hex1	Hex2	l	d	Thread	Thread length	Weight/pc. g	Weight/pc. g
3 x 4 mm	12	11	45	10.5	M 7 x 0.5	17	26	ESMCE 34 TQSV
3 x 5 mm	12	11	45	10.5	M 7 x 0.5	17	26	ESMCE 35 TQSV
4 x 6 mm	12	12	45	10.5	M 8 x 0.5	17	26	ESMCE 4 TQSV



Couplings with bulkhead screwing

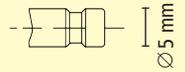
Hose i.D.	Hex1	Hex2	l	d	Thread	Thread length	Weight/pc. g	Weight/pc. g
3 mm	12	11	51	10.5	M 7 x 0.5	17	24	ESMCE 3 TSV
4 mm	12	11	51	10.5	M 7 x 0.5	17	24	ESMCE 4 TSV
5 mm	12	12	51	10.5	M 8 x 0.5	17	24	ESMCE 5 TSV

For hose clips type HSE (© catalogue page 337)

Micro Quick Connect Couplings Stainless Steel

single shut-off Serie ESMCE

DN2.7



Plug profile (original size)

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-15°C – +150°C	ISO 228 / DIN 13	2,7	165 L/min	yes	single	different	Europe	5

Plugs with male thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
M 5	7	18	5	10	3	ESMCE 5 NA
G 1/8"	11	20	7	10	6	ESMCE 18 NA

Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
M 5	7	17	5	10	3	ESMCE 5 NI
G 1/8"	12	19	7	10	6	ESMCE 18 NI

Plugs with hose stem

Hose i.D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
3 mm	7	24	13	10	2	ESMCE 3 S
4 mm	7	24	13	10	3	ESMCE 4 S
5 mm	9	24	13	10	3	ESMCE 5 S

For hose clips type HSE (© catalogue page 337)

Plugs with hose squeeze nut

For Hose	Hexagon	l	Plug Length	Weight/pc. g	Type No.
3 x 4 mm	8	25	10	12	ESMCE 34 SQ
3 x 5 mm	8	25	10	12	ESMCE 3 SQ
4 x 6 mm	8	25	10	12	ESMCE 4 SQ

Plugs with hose squeeze nut and bulkhead screwing

Hose i.D.	Hex1	Hex2	l	Thread	Thread Length	Weight/pc. g	Type No.
3 x 4 mm	12	11	38	M 7 x 0.5	17	23	ESMCE 34 SQSV
3 x 5 mm	12	11	38	M 7 x 0.5	17	23	ESMCE 35 SQSV
4 x 6 mm	12	12	38	M 8 x 0.5	17	23	ESMCE 4 SQSV

Plugs with bulkhead screwing

Hose i.D.	Hex1	Hex2	l	Thread	Thread Length	Weight/pc. g	Type No.
3 mm	12	11	45	M 7 x 0.5	17	21	ESMCE 3 SSV
4 mm	12	11	45	M 7 x 0.5	17	21	ESMCE 4 SSV
5 mm	12	12	45	M 8 x 0,5	17	21	ESMCE 5 SSV

For hose clips type HSE (© catalogue page 337)



NEW!

Micro Quick Connect Couplings Stainless Steel

Series ESMCE double shut-off

DN 2.7

Clean Connect
by LUDECKE

- High quality one-hand operation couplings with smallest dimensions of stainless steel 1.4305
- double shut-off to avoid the escape of medium when disconnecting. Robust, safe and reliable.
- Attention: Couplings can be connected with non-shut-off plugs DN 2.7, but shut-off plugs cannot be connected with standard couplings DN 2.7
- Several fields of application, above all for liquid media in pharmacy, medical industry, chemical industry, food & beverage applications, clean room applications, for high quality measure, control and regulation technique or hygienic requirements
- maximum working temperature subject to the chosen medium

Materials

- Connections, Sleeve, Valve body, Valve, Plug: stainless steel 1.4305
- Spring, Retaining ring: stainless steel 1.4310; Balls: stainless steel 1.4401
- O-rings: FKM (EPDM or FFKM on request)

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-15°C – +150°C	ISO 228 / DIN 13	2.7	150 L/min	yes	double	different	Europe	5

Couplings with male thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
M 5	9	26	10.5	5	9	ESMCE 5 AAB
G 1/8"	11	28	10.5	7	12	ESMCE 18 AAB

Couplings with female thread

Thread	Hexagon	l	d	Thread Length	Weight/pc. g	Type No.
M 5	9	25	10.5	5	10	ESMCE 5 IAB
G 1/8"	12	28	10.5	7	14	ESMCE 18 IAB

Couplings with hose stem

Hose i. D.	l	d	Stem Length	Weight/pc. g	Type No.
3 mm	34.5	10.5	13	9	ESMCE 3 TAB
4 mm	34.5	10.5	13	10	ESMCE 4 TAB
5 mm	34.5	10.5	13	10	ESMCE 5 TAB

For hose clips type HSE (© catalogue page 337)

Couplings with hose squeeze nut

For Hose	Hexagon	l	d	Weight/pc. g	Type No.
3 x 4 mm	9	34	10.5	15	ESMCE 34 TQAB
3 x 5 mm	9	34	10.5	15	ESMCE 3 TQAB
4 x 6 mm	9	34	10.5	15	ESMCE 4 TQAB

Couplings with hose squeeze nut and bulkhead screwing

For Hose	Hex1	Hex2	l	d	Thread	Thread Length	Weight/pc. g	Type No.
3 x 4 mm	12	11	45	10.5	M 7 x 0.5	17	26	ESMCE 34 TQSVAB
3 x 5 mm	12	11	45	10.5	M 7 x 0.5	17	26	ESMCE 35 TQSVAB
4 x 6 mm	12	12	45	10.5	M 8 x 0.5	17	26	ESMCE 4 TQSVAB

Couplings with bulkhead screwing

Hose i. D.	Hex1	Hex2	l	d	Thread	Thread Length	Weight/pc. g	Type No.
3 mm	12	11	51	10.5	M 7 x 0.5	17	24	ESMCE 3 TSVAB
4 mm	12	11	51	10.5	M 7 x 0.5	17	24	ESMCE 4 TSVAB
5 mm	12	12	51	10.5	M 8 x 0.5	17	24	ESMCE 5 TSVAB

For hose clips type HSE (© catalogue page 337)



Hex2
Hex1

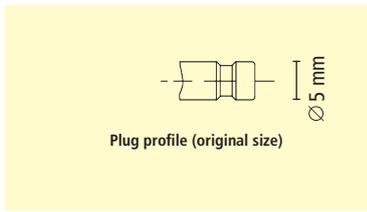


Hex2
Hex1

Micro Quick Connect Couplings Stainless Steel

double shut-off Series ESMCE

DN2.7



Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-15°C – +150°C	ISO 228 / DIN 13	2.7	150 L/min	ja	double	different	Europe	5

Plugs with male thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
M 5	9	28	5	10	10	ESMCE 5 NAAB
G 1/8	11	30	7	10	12	ESMCE 18 NAAB

Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
M 5	9	26.5	5	10	11	ESMCE 5 NIAB
G 1/8	12	30	7	10	14	ESMCE 18 NIAB

Plugs with hose stem

Hose i. D.	d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
3 mm	9	36.5	13	10	9	ESMCE 3 SAB
4 mm	9	36.5	13	10	10	ESMCE 4 SAB
5 mm	9	36.5	13	10	10	ESMCE 5 SAB

For hose clips type HSE (© catalogue page 337)

Plugs with hose squeeze nut

For Hose	Hexagon	l	Plug Length	Weight/pc. g	Type No.
3 x 4 mm	9	36	10	10	ESMCE 34 SQAB
3 x 5 mm	9	36	10	10	ESMCE 3 SQAB
4 x 6 mm	9	36	10	11	ESMCE 4 SQAB

Plugs with hose squeeze nut and bulkhead screwing

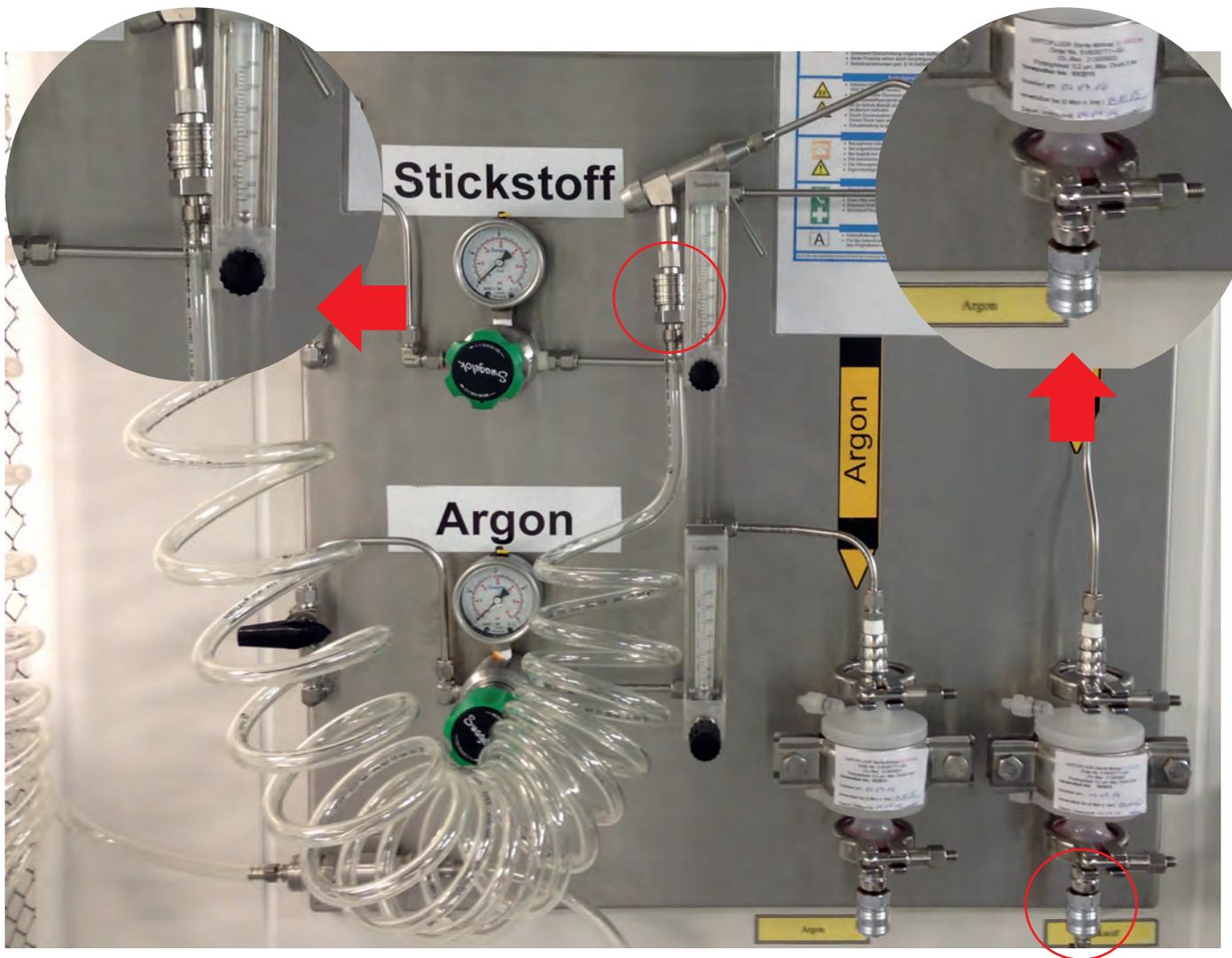
For Hose	Hex1	Hex 2	l	Plug Length	Thread	Thread Length	b	Weight/pc. g	Type No.
3 x 4 mm	12	11	47	10	M 7 x 0.5	17	3	13	ESMCE 34 SQSVAB
3 x 5 mm	12	11	47	10	M 7 x 0.5	17	3	13	ESMCE 35 SQSVAB
4 x 6 mm	12	12	47	10	M 8 x 0.5	17	3.5	17	ESMCE 4 SQSVAB

Plugs with bulkhead screwing

Hose i. D.	Hex1	Hex.2	l	Stem Length	Thread	Thread Length	Weight/pc. g	Type No.
3 mm	12	11	53	13	M 7 x 0.5	17	14	ESMCE 3 SSVAB
4 mm	12	11	53	13	M 7 x 0.5	17	14	ESMCE 4 SSVAB
5 mm	12	12	53	13	M 8 x 0.5	17	16	ESMCE 5 SSVAB

For hose clips type HSE (© catalogue page 337)





Mini Quick Connect Couplings Stainless Steel

single shut-off Series ESME

DN5

Clean Connect
by **LUDECKE**

- Miniature couplings of stainless steel 1.4305
- For the use of compressed air at demanding pureness and hygiene regulations or for applications with most different media, gases, chemicals, lacquers, pharmaceuticals.
- Numerous application sectors for pharmacy, chemistry, medical engineering, food industry, clean rooms, high-grade pneumatic applications
- Maximum operation temperature subject to medium used

Materials

- Connections, sleeve, valve body, valve: stainless steel 1.4305
- Springs, retaining ring 1.4310, balls: stainless steel 1.4401
- O-rings: FKM (EPDM or FFKM on demand)
- Plugs: stainless steel 1.4305

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-15°C – +200°C	ISO 228 / DIN 13	5	600 L/min	yes	single	divers	Europe	5

Couplings with male thread

Thread	Hexagon l	d	Thread Length	Weight/pc. g	Type No.
G 1/8"	14 36	16	7	27	ESME 18 A
G 1/4"	17 38	16	9	36	ESME 14 A
G 3/8"	19 38	16	9	42	ESME 38 A
M 12 x 1,5	14 38	16	9	30	ESME 1215 A
M 14 x 1,5	17 38	16	9	38	ESME 1415 A



Couplings with female thread

Thread	Hexagon l	d	Thread Length	Weight/pc. g	Type No.
G 1/8"	14 38	16	9	31	ESME 18 I
G 1/4"	17 38	16	9	31	ESME 14 I
G 3/8"	19 38	16	9	43	ESME 38 I
M 12 x 1,5	17 38	16	9	41	ESME 1215 I
M 14 x 1,5	17 38	16	9	38	ESME 1415 I



Couplings with hose stem

Hose i.D.	Hexagon l	d	Stem Length	Weight/pc. g	Type No.
4 mm	14 47	16	17	27	ESME 4 T
6 mm	14 47	16	17	28	ESME 6 T
8 mm	14 47	16	17	28	ESME 8 T
9 mm	14 47	16	17	30	ESME 9 T
10 mm	14 47	16	17	30	ESME 10 T



For hose clips type HSE (☺ catalogue page 337)

Couplings with hose squeeze nut

For Hose	Hex.1	Hex.2	l	d	Weight/pc. g	Type No.
4 x 6 mm	14	12	43	16	34	ESME 4 TQ
6 x 8 mm	14	14	43	16	36	ESME 6 TQ



Couplings with hose squeeze nut and bulkhead screwing

For Hose	Hex.1	Hex.2	Hex. 3	l	d	Thread	Thread Length	Weight/pc. g	b	Type No.
4 x 6 mm	14	12	12	54	16	M 10 x 1	18	41	4	ESME 4 TQSV
6 x 8 mm	14	14	14	54	16	M 12 x 1	18	49	4	ESME 6 TQSV



Special versions on demand.

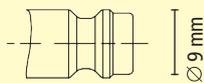


NEW!

Mini Quick Connect Couplings Stainless Steel

Series ESME single shut-off

DN5



Plug profile (original size)



Couplings with bulkhead screwing

Hose i.D	Hex.1	Hex.2	l	d	Stem Length	Thread	Thread Length	b	Weight/pc. g	Type No.
5 mm	17	17	60	16	17	M 12 x 1	14	4	45	ESME 5 TSV
6 mm	17	17	60	16	17	M 12 x 1	14	4	45	ESME 6 TSV
8 mm	17	17	60	16	17	M 12 x 1	14	4	45	ESME 8 TSV

For hose clips type HSE (© catalogue page 337)



Plugs with male thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	14	25	7	14	11	ESME 18 NA
G 1/4"	17	28	9	14	19	ESME 14 NA
G 3/8"	19	28	9	14	21	ESME 38 NA
M 10 x 1	14	25	7	14	11	ESME 101 NA
M 12 x 1,5	17	28	10	14	17	ESME 1215 NA
M 14 x 1,5	17	28	10	14	20	ESME 1415 NA



Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	14	25	8	14	14	ESME 18 NI
G 1/4"	17	25	9	14	15	ESME 14 NI
G 3/8"	19	26	9	14	19	ESME 38 NI
M 10 x 1	14	26	9	14	18	ESME 101 NI
M 12 x 1,5	17	27	10	14	22	ESME 1215 NI
M 14 x 1,5	17	27	10	14	19	ESME 1415 NI



Plugs with hose stem

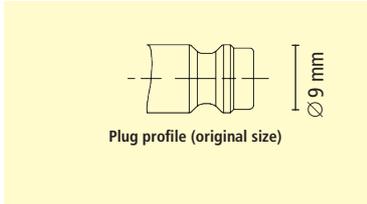
Hose i.D	l	d	Stem Length	Plug Length	Weight/pc. g	Type No.
4 mm	32	9	17	14	7	ESME 4 S
5 mm	32	9	17	14	8	ESME 5 S
6 mm	32	9	17	14	9	ESME 6 S
8 mm	32	9	17	14	9	ESME 8 S
9 mm	33	10	17	14	9	ESME 9 S
10 mm	33	12	17	14	12	ESME 10 S

For hose clips type HSE (© catalogue page 337)

Mini Quick Connect Couplings Stainless Steel

single shut-off Series ESME

DN5



Plugs with hose squeeze nut

For Hose	Hex1	Hex2	I	Plug Length	Weight/pc. g	Type No.
4 x 6 mm	12	12	32	14	17	ESME 4 SQ
6 x 8 mm	14	14	32	14	21	ESME 6 SQ

Plugs with hose squeeze nut and bulkhead screwing

For Hose	Hex1	Hex2	Hex3	I	Plug Length	Thread	Thread Length b	Weight/pc. g	Type No.	
4 x 6 mm	12	14	12	44	14	M 10 x 1	18	4	27	ESME 4 SQSV
6 x 8 mm	14	17	14	44	14	M 12 x 1	18	4	35	ESME 6 SQSV

Plugs with bulkhead screwing

Hose i. D.	Hex1	Hex2	I	d	Stem Length	Thread	Thread Length b	Weight/pc. g	Type No.	
5 mm	14	17	50	16	17	M 12 x 1	14	4	28	ESME 5 SSV
6 mm	14	17	50	16	17	M 12 x 1	14	4	28	ESME 6 SSV
8 mm	14	17	50	16	17	M 12 x 1	14	4	28	ESME 8 SSV

For hose clips type HSE (© catalogue page 337)



NEW!

Mini Quick Connect Couplings Stainless Steel

Series ESME double shut-off

DN5



- Miniature couplings of stainless steel 1.4305
- Double shut-off to avoid leaking of medium when disconnecting. Robust, safe and reliable.
- Attention: Couplings can be connected with non-valved plugs DN 5, but valved plugs cannot be connected with standard couplings DN 5
- Numerous application sectors, above all for liquid media in pharmacy, chemistry, medical engineering, food industry, clean rooms, high-grade control, measuring and regulation technology, at demanding pureness and hygiene regulations
- Maximum operation temperature subject to medium used

Materials

- Connections, sleeve, valve body, valve, Plugs: stainless steel 1.4305
- Springs, retaining ring 1.4310, balls: stainless steel 1.4401
- O-rings: FKM (EPDM or FFKM on demand)

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-15°C – +200°C	ISO 228 / DIN 13	5	200 L/min	yes	double	divers	Europe	5

Couplings with male thread

Thread	Hexagon l	d	Thread Length	Weight/pc. g	Type No.
G 1/8"	14 36	16	7	28	ESME 18 AAB
G 1/4"	17 38	16	9	37	ESME 14 AAB
G 3/8"	19 38	16	9	43	ESME 38 AAB

Couplings with female thread

Thread	Hexagon l	d	Thread Length	Weight/pc. g	Type No.
G 1/8"	14 38	16	9	32	ESME 18 IAB
G 1/4"	17 38	16	9	32	ESME 14 IAB
G 3/8"	19 38	16	9	44	ESME 38 IAB

Couplings with hose stem

Hose i. D.	Hexagon l	d	Stem Length	Weight/pc. g	Type No.
4 mm	14 47	16	17	28	ESME 4 TAB
6 mm	14 47	16	17	29	ESME 6 TAB
8 mm	14 47	16	17	29	ESME 8 TAB
9 mm	14 47	16	17	31	ESME 9 TAB
10 mm	14 47	16	17	31	ESME 10 TAB

For hose clips type HSE (☺ catalogue page 337)

Couplings with hose squeeze nut

For Hose	Hex1	Hex2	l	d	Weight/pc. g	Type No.
4 x 6 mm	14	12	43	16	35	ESME 4 TQAB
6 x 8 mm	14	14	43	16	37	ESME 6 TQAB

Couplings with hose squeeze nut and bulkhead screwing

For Hose	Hex1	Hex2	Hex3	l	d	Thread	Thread length	b	Weight/pc. g	Type No.
4 x 6 mm	14	12	12	54	16	M 10 x 1	18	4	42	ESME 4 TQSVAB
6 x 8 mm	14	14	14	54	16	M 12 x 1	18	4	50	ESME 6 TQSVAB

Couplings with bulkhead screwing

For Hose	Hex1	Hex2	l	d	Stem length	Thread	Thread length	b	Weight/pc. g	Type No.
5 mm	17	17	60	16	17	M 12 x 1	14	4	46	ESME 5 TSVAB
6 mm	17	17	60	16	17	M 12 x 1	14	4	46	ESME 6 TSVAB
8 mm	17	17	60	16	17	M 12 x 1	14	4	47	ESME 8 TSVAB

For hose clips type HSE (☺ catalogue page 337)



d



d



d



d



d



d

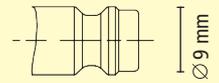
Mini Quick Connect Couplings Stainless Steel

double shut-off Series ESME

NEW!

Clean Connect
by LUDECKE

DN5



Plug profile (original size)

Plugs with male thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	14	40	7	14	22	ESME 18 NAAB
G 1/4"	17	42	9	14	31	ESME 14 NAAB
G 3/8"	19	42	9	14	37	ESME 38 NAAB
M 14 x 1,5	17	42	9	14	33	ESME 1415 NAAB



Plugs with female thread

Thread	Hexagon	l	Thread Length	Plug Length	Weight/pc. g	Type No.
G 1/8"	14	42	9	14	26	ESME 18 NIAB
G 1/4"	17	42	9	14	35	ESME 14 NIAB
G 3/8"	19	42	9	14	37	ESME 38 NIAB
M 10 x 1	14	42	9	14	26	ESME 101 NIAB
M 12 x 1,5	17	42	9	14	36	ESME 1215 NIAB
M 14 x 1,5	17	42	9	14	33	ESME 1415 NIAB



Plugs with hose stem

Hose i.D.	Hex. d	l	Stem Length	Plug Length	Weight/pc. g	Type No.
4 mm	14	16	50	17	21	ESME 4 SAB
6 mm	14	16	50	17	22	ESME 6 SAB
8 mm	14	16	50	17	23	ESME 8 SAB
9 mm	14	16	50	17	23	ESME 9 SAB
10 mm	14	16	50	17	24	ESME 10 SAB



For hose clips type HSE (© catalogue page 337)

Plugs with hose squeeze nut

For Hose	Hex1	Hex2	l	Plug Length	Weight/pc. g	Type No.
4 x 6 mm	14	12	46	14	29	ESME 4 SQAB
6 x 8 mm	14	14	46	14	31	ESME 6 SQAB



Plugs with hose squeeze nut and bulkhead screwing

For Hose	Hex1	Hex2	Hex3	l	Plug Length	Thread	Thread Length	b	Weight/pc. g	Type No.
4 x 6 mm	14	14	12	58	14	M 10 x 1	18	4	36	ESME 4 SQSVAB
6 x 8 mm	14	17	14	58	14	M 12 x 1	18	4	43	ESME 6 SQSVAB



Plugs with bulkhead screwing

Hose i.D.	Hex1	Hex2	l	Plug Length	Thread	Thread Length	b	Weight/pc. g	Type No.
5 mm	17	17	63	17	M 12 x 1	14	4	38	ESME 5 SSVAB
6 mm	17	17	63	17	M 12 x 1	14	4	38	ESME 6 SSVAB
8 mm	17	17	63	17	M 12 x 1	14	4	38	ESME 8 SSVAB



For hose clips type HSE (© catalogue page 337)

NEW!

Standard Quick Connect Couplings Stainless Steel Series ESE single shut-off

DN7.2

Clean Connect
by **LUDECKE**

- Standard couplings of stainless steel 1.4305
- For the use of compressed air at demanding pureness and hygiene regulations or for applications with most different media (gases, chemicals, lacquers, pharmaceuticals)
- Numerous application sectors in pharmacy, chemistry, medical engineering, food industry, clean rooms, high-grade pneumatic applications
- Maximum operation temperature subject to medium used

Materials

- Connections, sleeve, valve body, valve, plugs: stainless steel 1.4305
- Springs, retaining ring, pins: 1.4310
- Balls: stainless steel 1.4401
- O-rings: FKM (EPDM or FFKM on demand)

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-20°C – +200°C	ISO 228	7.2	1200 L/min	yes	single	divers	worldwide	c 5/p 5

Couplings with male thread parallel

Thread	Hex.	l	d	Thread length	Weight/pc. g	sleeve	
						Type No. flat	Type No. knurled
G 1/4"	22	41	27	9	82	ESEG 14 A	ESER 14 A
G 3/8"	22	42	27	10	82	ESEG 38 A	ESER 38 A
G 1/2"	24	44	27	12	95	ESEG 12 A	ESER 12 A

Couplings with female thread parallel

Thread	Hex.	l	d	Thread length	Weight/pc. g	sleeve	
						Type No. flat	Type No. knurled
G 1/4	22	41.5	27	10,5	83	ESEG 14 I	ESER 14 I
G 3/8"	22	41.5	27	10.5	83	ESEG 38 I	ESER 38 I
G 1/2"	24	43	27	12	92	ESEG 12 I	ESER 12 I

Couplings with hose stem

Hose i. D.	Hex.	l	d	Stem length	Weight/pc. g	sleeve	
						Type No. flat	Type No. knurled
6 mm	22	56	27	25	92	ESEG 6 T	ESER 6 T
8 mm	22	56	27	25	92	ESEG 8 T	ESER 8 T
9 mm	22	56	27	25	92	ESEG 9 T	ESER 9 T
10 mm	22	56	27	25	93	ESEG 10 T	ESER 10 T
13 mm	22	56	27	25	95	ESEG 13 T	ESER 13 T

For hose clips type HSE (© catalogue page 337)



Available either with ergonomically flat sleeve contour to avoid dirt nests for demanding hygiene regulations or with handy knurled sleeve

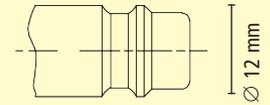


Standard Quick Connect Couplings Stainless Steel

single shut-off Series ESE



DN7.2



Plug profile (original size)

Plugs with male thread parallel

Thread	Hex.	l	Thread length	Plug length	Weight/pc. g	Type No.
G 1/4"	17	33	9	20	22	ESE 14 NA
G 3/8"	19	33	9	20	25	ESE 38 NA
G 1/2"	24	37	12	20	45	ESE 12 NA



Plugs with female thread parallel

Thread	Hex.	l	Thread length	Plug length	Weight/pc. g	Type No.
G 1/4"	17	32	10	20	20	ESE 14 NI
G 3/8"	19	32	10	20	25	ESE 38 NI
G 1/2"	24	35	12	20	36	ESE 12 NI



Plugs with hose stem

Hose i. D.	Hex.	l	d	Stem length	Weight/pc. g	Type No.
6 mm	12	46	25	20	13	ESE 6 S
8 mm	12	46	25	20	15	ESE 8 S
9 mm	12	46	25	20	14	ESE 9 S
10 mm	12	46	25	20	17	ESE 10 S
13 mm	15	46	25	20	24	ESE 13 S



For hose clips type HSE (© catalogue page 337)

Standard Quick Connect Couplings Stainless Steel

Series ESE double shut-off

DN 7.2

Clean Connect
by **LUDECKE**

- Standard couplings of stainless steel 1.4305
- Double shut-off to avoid leaking of medium when disconnecting. Robust, safe and reliable.
- **Attention: Couplings can be connected with non-vavled plugs DN 7.2, but vavled plugs cannot be connected with standard couplings DN 7.2**
- Numerous application sectors, above all for liquid media in pharmacy, chemistry, medical engineering, food industry, clean rooms, high-grade control, measuring and regulation technology, at demanding pureness and hygiene regulations
- Maximum operation temperature subject to medium used

Materials

- Connections, sleeve, valve body, valve, plugs: stainless steel 1.4305
- Springs, retaining ring, pins: 1.4310
- Balls: stainless steel 1.4401 • O-rings: FKM (EPDM or FFKM on demand)

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-20°C – +200°C	ISO 228	7.2	750L/min	yes	double	divers	worldwide	c 5/p 5

Couplings with male thread parallel

Thread	Hex. \varnothing	l	d	Thread length	Weight/pc. g	sleeve	
						Type No. flat	Type No. knurled
G 1/4	22	41	27	9	82	ESEG 14 AAB	ESER 14 AAB
G 3/8"	22	42	27	10	82	ESEG 38 AAB	ESER 38 AAB
G 1/2"	24	44	27	12	95	ESEG 12 AAB	ESER 12 AAB

Couplings with female thread parallel

Thread	Hex. \varnothing	l	d	Thread length	Weight/pc. g	sleeve	
						Type No. flat	Type No. knurled
G 1/4	22	41.5	27	10.5	83	ESEG 14 IAB	ESER 14 IAB
G 3/8"	22	41.5	27	10.5	83	ESEG 38 IAB	ESER 38 IAB
G 1/2"	24	43	27	12	92	ESEG 12 IAB	ESER 12 IAB

Couplings with hose stem

Hose i. D.	Hex. \varnothing	l	d	Stem length	Weight/pc. g	sleeve	
						Type No. flat	Type No. knurled
6 mm	22	56	27	25	92	ESEG 6 TAB	ESER 6 TAB
8 mm	22	56	27	25	92	ESEG 8 TAB	ESER 8 TAB
9 mm	22	56	27	25	92	ESEG 9 TAB	ESER 9 TAB
10 mm	22	56	27	25	93	ESEG 10 TAB	ESER 10 TAB
13 mm	22	56	27	25	95	ESEG 13 TAB	ESER 13 TAB

For hose clips type HSE (© catalogue page 337)



d



d



d

Available either with ergonomically flat sleeve contour to avoid dirt nests for demanding hygiene regulations or with handy knurled sleeve

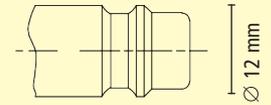
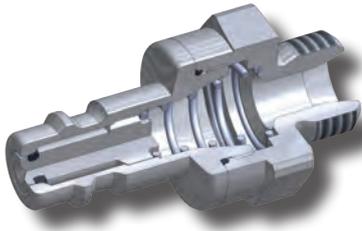


Standard Quick Connect Couplings Stainless Steel

double shut-off Series ESE

Clean Connect
by **LUDECKE**

DN7.2



Plug profile (original size)

Plugs with male thread parallel

Thread	Hex.	l	Thread length	Plug length	Weight/pc. g	Type No.
G 1/4"	22	43	9	20	52	ESE 14 NAAB
G 3/8"	22	45	10	20	55	ESE 38 NAAB
G 1/2"	24	47	12	20	62	ESE 12 NAAB



Plugs with female thread parallel

Thread	Hex.	l	Thread length	Plug length	Weight/pc. g	Type No.
G 1/4"	22	44	10.5	20	55	ESE 14 NIAB
G 3/8"	22	44	10.5	20	55	ESE 38 NIAB
G 1/2"	24	45.5	12	20	62	ESE 12 NIAB



Plugs with hose stem

Hose i. D.	Hex.	l	Stem length	Plug length	Weight/pc. g	Type No.
6 mm	22	54	25	20	55	ESE 6 SAB
8 mm	22	54	25	20	55	ESE 8 SAB
9 mm	22	54	25	20	55	ESE 9 SAB
10 mm	22	54	25	20	56	ESE 10 SAB
13 mm	22	54	25	20	57	ESE 13 SAB



For hose clips type HSE (© catalogue page 337)

NEW!

Industrial Quick Connect Couplings Stainless Steel

Series ESIE single and double shut-off

DN 7.8

Clean Connect
by **LUDECKE**

- One-hand operation and robust design made of stainless steel 1.4305/1.4404
- Front body protected by collar design to avoid damages
- High flow rates low pressure drop due to energy efficient valve design
- Coupling / female part also to be used with valved plugs
- To be used in various applications such as fluid mediums, motion and control, pharmaceutical, medical, chemical, food and beverage industry, as well as for high purity operations.
- Also to be used in high temperature subject to combination of medium and sealing compound

Materials

- Connection body, valve body, valve, sleeve: stainless steel 1.4305/1.4404
- Springs : spring steel 1.4310/1.4571; balls: stainless steel 1.4305/1.4404
- O-rings: FKM (EPDM, FFKM on request); plugs: stainless steel 1.4305/1.4404

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-20°C – +200°C	ISO 228	7.8	1850 / 750 L/min	yes	single/double	divers	Europe	1

Coupling with Male thread

Thread	Hex.	l	d	Thread length	Weight/pc. g	Type No.
G 1/4"	19	57.5	23.5	9	97	ESIE 14 AAB
G 3/8"	19	58.5	23.5	10	101	ESIE 38 AAB
G 1/2"	24	60.5	23.5	12	130	ESIE 12 AAB

Coupling with female thread

Thread	Hex.	l	d	Thread length	Weight/pc. g	Type No.
G 1/4"	19	57.5	23.5	10	106	ESIE 14 IAB
G 3/8"	19	57.5	23.5	10	100	ESIE 38 IAB
G 1/2"	24	59.5	23.5	12	133	ESIE 12 IAB

Couplings with hose stem

Hose i. D.	Hex.	l	d	Stem length	Weight/pc. g	Type No.
6 mm	19	73.5	23.5	25	97	ESIE 6 TAB
8 mm	19	73.5	23.5	25	98	ESIE 8 TAB
9 mm	19	73.5	23.5	25	99	ESIE 9 TAB
10 mm	19	73.5	23.5	25	99	ESIE 10 TAB
13 mm	19	73.5	23.5	25	101	ESIE 13 TAB

For hose clips type HSE (☺ catalogue page 337)

*Couplings made of stainless steel 1.4404: Connection body, valve body, balls, valve sleeve of stainless steel 1.4404; spring of spring steel 1.4571; shut-off plugs of stainless steel 1.4404; connection body, valve and plug of stainless steel 1.4404; spring of spring steel 1.4571



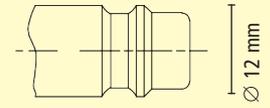
Industrial Quick Connect Couplings Stainless Steel

single and double shut-off Series ESIE

NEW!

Clean
Connect
by LUDECKE

DN7.8



Plug profile (original size)

Plugs with male thread non-valved / free passage

Thread	Hex	l	Thread length	Plug length	Weight/pc. g	Type No.
G 1/4"	17	33	9	20	22	ESE 14 NA
G 3/8"	19	33	9	20	25	ESE 38 NA
G 1/2"	24	37	12	20	45	ESE 12 NA



Plugs with female thread non-valved / free passage

Thread	Hex.	l	Thread length	Plug length	Weight/pc. g	Type No.
G 1/4"	17	32	10	20	20	ESE 14 NI
G 3/8"	19	32	10	20	25	ESE 38 NI
G 1/2"	24	35	12	20	36	ESE 12 NI



Plugs with hose stem non-valved / free passage

Hose i. D.	d	l	Stem length	Plug length	Weight/pc. g	Type No.
6 mm	12	46	25	20	13	ESE 6 S
8 mm	12	46	25	20	15	ESE 8 S
9 mm	12	46	25	20	14	ESE 9 S
10 mm	12	46	25	20	17	ESE 10 S
13 mm	15	46	25	20	24	ESE 13 S

For hose clips type HSE (© catalogue page 337)



Plugs with male thread tapered valved

Thread	Hex.	l	Thread length	Plug length	Weight/pc. g	Type No.
G 1/4"	22	43	9	20	52	ESE 14 NAAB
G 3/8"	22	45	10	20	55	ESE 38 NAAB
G 1/2"	24	47	12	20	62	ESE 12 NAAB



Plugs with female thread tapered valved

Thread	Hex.	l	Thread length	Plug length	Weight/pc. g	Type No.
G 1/4"	22	44	10.5	20	55	ESE 14 NIAB
G 3/8"	22	44	10.5	20	55	ESE 38 NIAB
G 1/2"	24	45.5	12	20	62	ESE 12 NIAB



Plugs with hose stem valved

Hose i. D.	Hex.	l	Stem length	Plug length	Weight/pc. g	Type No.
6 mm	22	54	25	20	55	ESE 6 SAB
8 mm	22	54	25	20	55	ESE 8 SAB
9 mm	22	54	25	20	55	ESE 9 SAB
10 mm	22	54	25	20	56	ESE 10 SAB
13 mm	22	54	25	20	57	ESE 13 SAB

For hose clips type HS (© catalogue page 337)



NEW!

Industrial Quick Connect Couplings Stainless Steel Series ESIGE single and double shut-off

DN 10

- One-hand operation and robust design made of stainless steel 1.4305 / 1.4404
- Front body protected by collar design to avoid damages
- High flow rates, low pressure drop due to energy efficient valve design
- Coupling / female part also to be used with valved plugs
- To be used in various applications such as fluid mediums, motion and control, pharmaceutical, medical, chemical, food and beverage industry, as well as for high purity operations.
- Also to be used in high temperature subject to combination of medium and sealing compound

Materials

- Connection body, valve body, valve, sleeve: stainless steel 1.4305/1.4404
- Springs retaining ring: stainless steel 1.4310; balls: stainless steel 1.4404
- O-rings: FKM (EPDM, FFKM on request); plugs: stainless steel 1.4305/1.4404

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-15°C – +150°C	ISO 228	10	2150 / 1020 L/min	yes	single/double	divers	Europe	1



d

Coupling with Male thread

Thread	Hex.	l	Thread length	d		Weight/pc. g	Type No.
G 3/8"	24	61.5	10	27	5	144	ESIGE 38 AAB
G 1/2"	24	63.5	12	27	5	148	ESIGE 12 AAB
G 3/4"	32	67.5	16	27	5	213	ESIGE 34 AAB



d

Coupling with female thread

Thread	Hex.	l	Thread length	d		Weight/pc. g	Type No.
G 3/8"	24	56.5	11	27	5	146	ESIGE 38 IAB
G 1/2"	24	56.5	12	27	5	138	ESIGE 12 IAB
G 3/4"	32	67.5	16	27	5	213	ESIGE 34 IAB



d

Couplings with hose stem

Hose i. D.	Hex.	l	Stem length	d		Weight/pc. g	Type No.
9 mm	24	76.5	25	27	5	145	ESIGE 9 TAB
10 mm	24	76.5	25	27	5	144	ESIGE 10 TAB
13 mm	24	76.5	25	27	5	147	ESIGE 13 TAB
16 mm	24	76.5	25	27	5	149	ESIGE 16 TAB
19 mm	24	76.5	25	27	5	151	ESIGE 19 TAB

For hose clips type HSE (☺ catalogue page 337)



d

Plugs with male thread non-valved / free passage

Thread	Hex.	l	Thread length	Plug length		Weight/pc. g	Type No.
G 3/8"	19	35.5	9	21	10	30	ESIGE 38 NA
G 1/2"	24	38.5	12	21	10	50	ESIGE 12 NA
G 3/4"	32	43	16	21	10	83	ESIGE 34 NA



d

Plugs with female thread non-valved / free passage

Thread	Hex.	l	Thread length	Plug length		Weight/pc. g	Type No.
G 3/8"	19	36	12	21	10	28	ESIGE 38 NI
G 1/2"	24	37	12	21	10	45	ESIGE 12 NI
G 3/4"	32	42	16	21	10	92	ESIGE 34 NI



d

Plugs with hose barb non-valved / free passage

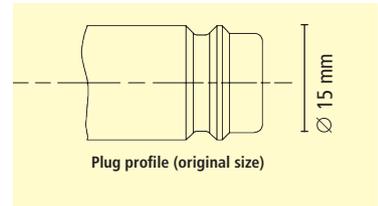
Hose i. D.	l	Stem length	d	Plug length		Weight/pc. g	Type No.
9 mm	46.5	25	15	21	10	21	ESIGE 9 S
10 mm	46.5	25	15	21	10	21	ESIGE 10 S
13 mm	46.5	25	15	21	10	28	ESIGE 13 S
16 mm	48	25	20	21	10	33	ESIGE 16 S
19 mm	48	25	24	21	10	39	ESIGE 19 S

For hose clips type HSE (☺ catalogue page 337)

Industrial Quick Connect Couplings Stainless Steel

double shut-off Series ESIGE

DN 10



Plugs with male thread valved

Thread	Hex.	l	Thread length	Plug length	Weight/pc. g	Type No.
G 3/8"	24	59.5	10	21	88	ESIGE 38 NAAB
G 1/2"	24	61.5	12	21	93	ESIGE 12 NAAB
G 3/4"	32	65.5	16	21	157	ESIGE 34 NAAB

Plugs with female thread valved

Thread	Hex.	l	Thread length	Plug length	Weight/pc. g	Type No.
G 3/8"	24	54.5	11	21	90	ESIGE 38 NIAB
G 1/2"	24	54.5	12	21	82	ESIGE 12 NIAB
G 3/4"	32	58.5	16	21	145	ESIGE 34 NIAB

Plugs with hose stem valved

Hose i. D.	Hex.	l	Stem length	Plug length	Weight/pc. g	Type No.
9 mm	24	74.5	25	21	89	ESIGE 9 SAB
10 mm	24	74.5	25	21	88	ESIGE 10 SAB
13 mm	24	74.5	25	21	91	ESIGE 13 SAB
16 mm	24	74.5	25	21	94	ESIGE 16 SAB
19 mm	24	74.5	25	21	95	ESIGE 19 SAB

For hose clips type HSE (☺ catalogue page 337)

*Couplings made of stainless steel 1.4404: Connection body, valve body, balls, valve sleeve of stainless steel 1.4404; spring of spring steel 1.4571; shut-off plugs of stainless steel 1.4404; connection body, valve and plug of stainless steel 1.4404; spring of spring steel 1.4571



NEW!

High Capacity Quick Connect Couplings

Serie ESGE single and double shut-off

DN 19



- One-hand operation and robust design made of stainless steel 1.4404
- High flow rates low pressure drop due to energy efficient valve design
- Coupling / female part also to be used with valved plugs
- To be used in various applications such as compressed air, liquid mediums, high capacity tools and machinery
- Dedicated to be used for air supply in production machineries

Materials

- Connection body, valve body, valve, sleeve: stainless steel 1.4305/1.4404
- Springs retaining ring: stainless steel 1.4310; balls: stainless steel 1.4404
- O-rings: FKM (EPDM, FFKM on request); plugs: stainless steel 1.4305/1.4404

Max. Working Pressure	Temperature	Threads	DN	Flow Capacity	One-Hand	Shut-Off	Medium	Area	
PN 35 bar	-20°C – +150°C	19	ISO 228	8000 / 2600 L/min	yes	single/double	diverse	Europe	1



Coupling with Male thread

Thread	Hex.	l	Thread length	d	Weight/pc. g	Type No.
G 3/4"	41	95	16	46	575	ESGE 34 AAB
G 1"	41	98	19	46	606	ESGE 10 AAB
G 1 1/4"	46	98	19	46	695	ESGE 54 AAB



Coupling with female thread

Thread	Hex.	l	Thread length	d	Weight/pc. g	Type No.
G 3/4"	41	99	20	46	694	ESGE 34 IAB
G 1"	41	99	21	46	641	ESGE 10 IAB
G 1 1/4"	50	104	22	46	884	ESGE 54 IAB



Coupling with hose stem

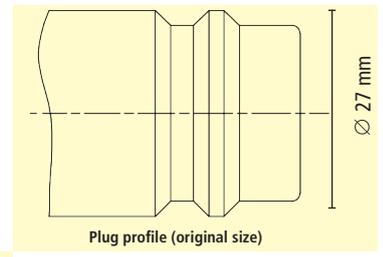
Hose i. D.	l	Stem length	d	Weight/pc. g	Type No.
19 mm	128	36	46	613	ESGE 19 TAB
25 mm	129	48	46	640	ESGE 25 TAB

For hose clips type HSE (☺ catalogue page 337)



High Capacity Quick Connect Couplings Series ESGE

DN 19



Plugs with male thread non-valved or valved

Thread	Hex.	l	Thread length	Plug length	passage	Weight/pc. g	Type No.
G 3/4"	32	60	16	34	free	142	ESGE 34 NA
G 1"	36	65	19	34	free	194	ESGE 10 NA
G 1 1/4"	46	68	19	34	free	307	ESGE 54 NA
G 3/4" "	41	92	16	34	shut-off	372	ESGE 34 NAAB
G 1"	41	95	19	34	shut-off	403	ESGE 10 NAAB
G 1 1/4"	46	95	19	34	shut-off	492	ESGE 54 NAAB

Plugs with female thread non-valved or valved

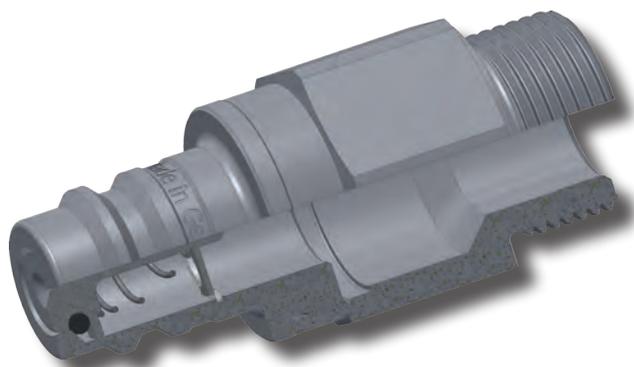
Thread	Hex.	l	Thread length	Plug length	passage	Weight/pc. g	Type No.
G 3/4"	32	58	20	34	free	151	ESGE 34 NI
G 1"	41	68	24	34	free	297	ESGE 10 NI
G 1 1/4"	50	70	26	34	free	413	ESGE 54 NI
G 3/4" "	41	96	20	34	shut-off	491	ESGE 34 NIAB
G 1"	41	96	21	34	shut-off	438	ESGE 10 NIAB
G 1 1/4"	50	101	22	34	shut-off	681	ESGE 54 NIAB

Plugs with hose stem non-valved or valved

Hose i. D.	Hex.	l	Stem length	Plug length	passage	Weight/pc. g	Type No.
19 mm	-	75	36	34	free	161	ESGE 19 S
25 mm	-	87	48	34	free	175	ESGE 25 S
19 mm	41	116	36	34	shut-off	410	ESGE 19 SAB
25 mm	41	126	48	34	shut-off	437	ESGE 25 SAB

For hose clips type HSE (© catalogue page 337)

Clean Connect
by **LUDECKE**





Temperature Control Quick Connect Couplings

for safe and quick connections in moulding applications



Stainless steel quick connect couplings are ideally used in such applications where cold and hot water lines or tempered oils, granulate transports or cleanroom applications are operated within the plastic moulding industry.

- Best flow rates even in small nominal diameters
- One-hand operation for easy and quick connecting / disconnecting
- Long sleeve design enable the user to operate the couplings to connect a plug even in flush mounted machinery
- Available in valved and non-valved versions, also double shut-off
- On request with sleeve locking mechanism
- All versions available with standard hose barb or with quick push to connect hose barb

Overview Stainless Steel quick connect couplings

Easy to differentiate - Feed or return lines



Series/ nominal diameter

Body, Sleeve, Valve body, Valve:

Springs, Retaining ring: Balls:

O-rings: Special seals for other media on request:

Plug:

Max. Working Pressure:

Temperature:

Flow Capacity:

Flow coefficient:

Valved:

ESHME DN 6

Stainless Steel 1.4305

Spring Steel 1.4310
Stainless Steel 1.4034

FKM (PFTE coated)
FFKM

Stainless Steel 1.4305

PN 15 bar

-20°C - + 200°C

ISO 228/ DIN 13

Cv = 0,713 m³/h

Single shut-off /
double shut-off /
non-valved

ESHE DN 9

Stainless Steel 1.4305

Spring Steel 1.4310
Stainless Steel 1.4034

FKM (PFTE coated)
FFKM

Stainless Steel 1.4305

PN 15 bar

-20°C - + 200°C

ISO 228/ DIN 13

Cv = 1,715 m³/h

Single shut-off /
double shut-off /
non-valved

*temperature resistance is subject to the suitable medium

LUDECKE offers red or blue anodized aluminium sleeves – orders on request



When ordering, add "R" or "B" at the end of the standard Type No. (i.e. ESH13 TLR or ESHM 9 TLABB)

Unlocking Safeguard

Safety for user and machinery



Sleeve locking mechanism offers a simple and effective prevention in respect of unintended disconnection under pressure due to a pin sleeve lock design (pin/notch)

- Avoids unintended loss of liquids
- Prevents flow and pressure drop within a circuit during operation and damages of machines and tools can be avoided

When ordering, just add "S" at the end of the standard Type No. (i.e. ESM 9 TLS)

Disconnection of the plug is only possible if the safety pin is exactly engaged to the safety notch within the sleeve

High-performance special seals for Temperature Control Quick Connect Couplings

For temperature control quick connect coupling series ESHME and ESHE new high-performance special seals are alternatively offered for highly aggressive tempered fluids.

Standard: O-ring made of high-quality modified FKM

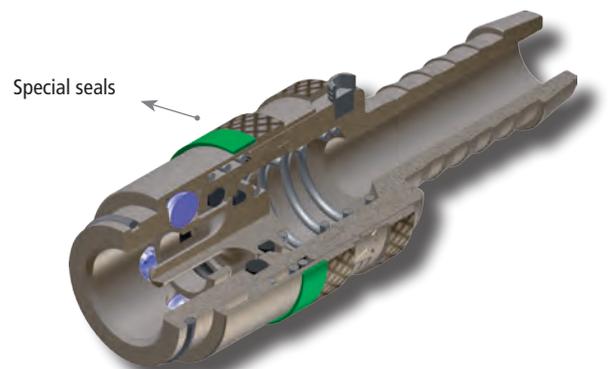
- Heat resistance up to 200°C, high resistance against all common tempered media
- FKM O-rings are generally PTFE coated, therefore significantly better gliding properties and lower wear
- High elasticity (no crack formation) according to DIN 53504
- High abrasion resistance of the O-ring according to DIN 54021
- Prevents bonding of the O-ring and the plug during high temperature application
- Significantly higher operation time of the coupling

Special Seals: FKM-O-ring

- Extreme heat resistance up to 200°C continual temperature
- High resistance against synthetic oils used as tempered media
- Very good chemical resistance and high resistance against aliphatic hydrocarbons (fuels)

When ordering, simply add to the standard Type No. "HV" (i.e. ESHM 9 TLABHV).

*temperature resistance is subject to the suitable medium



Special Seals: HITEC®-EPDM-O-ring

- Extreme heat resistance up to 160°C continual temperature
- High resistance against hot water, ultrapure water and steam used as tempered media
- Aging and weather resistant
- Possesses a KTW certification for drinking water in Germany

When ordering, simply add to the standard Type No. "HE" (i.e. ESHM 9 TLABHE).

Temperature Control Quick Connect Coupling System

Series ESHME plug size 9 mm – material stainless steel 1.4305

DN6

**European
Plug
Profile**

- For temperature control applications with hot or cold water or oil f.e in clean room production
- Optional with non-valved, single or double shut-off
- All couplings available with disconnect-protection against surcharge (just add „S“ on Type No.)!

Materials

- Body, sleeve, valve body, valve, plug: stainless steel 1.4305
- Spring, retaining ring: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	6	ISO 228 / DIN 13	yes	free, single, double	couplings 1 / plugs 5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	53	17	22.5	9	6	45	ESHME 9 TL	ESHME 9 TLAB

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	42.5	17	25.5	9	6	62	ESHME 9 TL-45	ESHME 9 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
9 mm	42.5	17	25.5	9	6	62	ESHME 9 TL-90	ESHME 9 TL-90AB

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

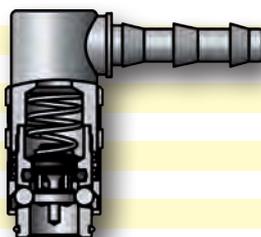
Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	48	17	9	9	6	60	ESHME 14 A	ESHME 14 AAB
M 14 x 1.5	17	48	17	9	9	6	60	ESHME 1415 A	ESHME 1415 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	47	17	9	9	6	65	ESHME 14 A-45	ESHME 14 A-45AB
M 14 x 1.5	17	47	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	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	47	17	9	9	6	75	ESHME 14 A-90	ESHME 14 A-90AB
M 14 x 1.5	17	47	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.

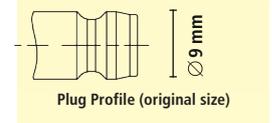
Other types / measures on demand!

Suitable hose clips (☺catalogue page 337), two-ear clips (☺catalogue page 344) or crimping ferrules for standard hoses (☺catalogue page 347)

Temperature Control Quick Connect Coupling System

plug size 9 mm – material stainless steel 1.4305 Series ESHME

DN 6



Plugs

Plugs with standard hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
9 mm	39.5	22.5	9	6	13	ESHME 9 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/8"	11	24	7	9	6	10	ESHME 18 NA
G 1/4"	15	26	9	9	6	14	ESHME 14 NA
G 3/8"	17	27	9	9	6	18	ESHME 38 NA
M 8 x 0.75	11	24	7	9	4.5	9	ESHME 875 NA
M 10 x 1	11	24	7	9	6	8	ESHME 101 NA
M 14 x 1.5	15	26	9	9	6	14	ESHME 1415 NA
M 16 x 1.5	17	26	9	9	6	18	ESHME 1615 NA



Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	15	29	12	9	6	14	ESHME 14 NAAB
G 3/8"	17	30	12	9	6	22	ESHME 38 NAAB
M 14 x 1,5	15	29	12	9	6	15	ESHME 1415 NAAB



Plug System-Adaptors

System	l	l1	l2	d1	d2	d3	Weight/pc. g	Type No.
DN 6 – DN 6	34	14	14	9	6	9	15	ESHME-ESHME
DN 6 – DN 9	34	14	14	9	6	13	19	ESHME-ESHE



Plug Pipes for countersunk mould threads

Pipe Ø	Hexagon	l	l1	d1	Passage	Weight/pc. g	Type No.
8 mm	9	63	21	9	6	14	ESHME 63 R
8 mm	9	100	21	9	6	20	ESHME 100 R
10 mm	11	120	21	9	6	49	ESHME 120 R



Temperature Control Quick Connect Coupling System

Series ESHE plug size 13 mm – material stainless steel 1.4305

DN9

**European
Plug
Profile**

- For temperature control applications with hot and cold water or oil i.e in clean room production
- Optional with non-valved, single or double shut-off
- All couplings available with disconnect-protection against surcharge (just add „S“ on Type No.)!
- Detailed Information (☺ catalogue page 114)

Materials

- Body, sleeve, valve body, valve, plug: stainless steel 1.4305
- Spring, retaining ring: stainless steel 1.4310; balls: stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	Medium	DN	Threads	One-Hand	Shut-off	☺
PN 15 bar	-20°C – +200°C	air / water / oil / vacuum	9	ISO 228 / DIN 13	yes	free, single, double	couplings 1 / plugs 5

Couplings with hose connection

Couplings with straight standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
13 mm	61.5	22	25	13	9	81	ESHE 13 TL	ESHE 13 TLAB

Couplings with 45° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
13 mm	51	22	30	13	9	109	ESHE 13 TL-45	ESHE 13 TL-45AB

Couplings with 90° standard hose stem without/with valve

Hose i.D.	l	d	Stem Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
13 mm	51	22	30	13	9	111	ESHE 13 TL-90	ESHE 13 TL-90AB

Couplings with thread connection

Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	52	22	9	13	9	94	ESHE 38 A	ESHE 38 AAB
M 16 x 1.5	22	52	22	9	13	9	93	ESHE 1615 A	ESHE 1615 AAB

Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	54	22	9	13	9	114	ESHE 38 A-45	ESHE 38 A-45AB
M 16 x 1.5	22	54	22	9	13	9	114	ESHE 1615 A-45	ESHE 1615 A-45AB

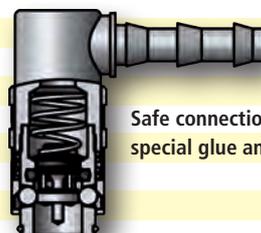
Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 3/8"	22	54	22	9	13	9	126	ESHE 38 A-90	ESHE 38 A-90AB
M 16 x 1.5	22	54	22	9	13	9	126	ESHE 1615 A-90	ESHE 1615 A-90AB

Couplings with straight female thread without/ with valve

Thread	Hexag.	l	d	Thread Leng.	d1	Passage	Weight/pc. g	Type No. w/o valve	Type No. with valve
G 1/4"	17	44.5	22	9	13	9	102	ESHE 14 I	ESHE 14 IAB
G 3/8"	22	46	22	9	13	9	104	ESHE 38 I	ESHE 38 IAB

NEW!



Safe connection of individual coupling parts due to special glue and supplementary FKM-O-ring sealing.

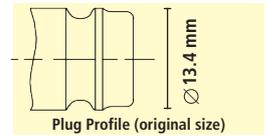
Other types / measures on demand!

Suitable hose clips, two-ear clips or crimping ferrules for standard hoses – (☺ catalogue page 337, 344, 347)

Temperature Control Quick Connect Coupling System

plug size 13 mm – material stainless steel 1.4305 Series ESHE

DN 9



Plugs

Plugs with standard hose stem without valve

Hose i.D.	l	Stem Length	d1	Passage	Weight/pc. g	Type No.
13 mm	39.5	25	13	9	25	ESHE 13 SL

Plugs with straight male thread without valve (inner cone DIN 3863)

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	15	26	9	13	9	17	ESHE 14 NA
G 3/8"	17	26	9	13	9	22	ESHE 38 NA
G 1/2"	22	31	12	13	9	22	ESHE 12 NA
M 14 x 1.5	15	26	9	13	9	16	ESHE 1415 NA
M 16 x 1.5	17	26	9	13	9	20	ESHE 1615 NA

Plugs with straight male thread with valve

Thread	Hexagon	l	Thread Length	d1	Passage	Weight/pc. g	Type No.
G 1/4"	15	30	11	13	9	21	ESHE 14 NAAB
G 3/8"	17	29	12	13	9	23.5	ESHE 38 NAAB
M 16 x 1,5	17	29	12	13	9	23	ESHE 1615 NAAB

System-Adaptors

System	l	l1	l2	d1	d2	d3	Weight/pc. g	Type No.
DN 6 – DN9	34	14	14	9	6	13	19	ESHME-ESHE
DN 9 – DN 9	34	14	14	13	9	13	25	ESHE-ESHE

Plug Pipes for countersunk mould threads

PipeØ	Hexagon	l	l1	d1	Passage	Weight/pc. g	Type No.
14 mm	15	150	23	13	9	109	ESHE 150 R



Colour coding of the couplings

Brilliant, easy distinction



Marking rings for temperature control couplings

for coupling type	colour	Ø	Material	Weight/pc. g	Art. No.
ESHME,ESHM/DN6	red	17	Aluminium anodised	50	ESHM-CR-R
ESHME,ESHM/DN6	blue	17	Aluminium anodised	50	ESHM-CR-B
ESHE,ESH/DN9	red	22	Aluminium anodised	50	ESH-CR-R
ESHE,ESH/DN9	blue	22	Aluminium anodised	50	ESH-CR-B

Other coupling series available on demand.

Manifolds for Temperature Control lines

made of stainless steel 1.4401

- Stainless steel, for a clearly arranged composition of flow and reflux as close as possible to the mould tool, for a direct assembly to the machine
- Increases the working and production safety through its clearly arranged composition of temperature control lines, saves energy and hose lines because of central inlet of the temperature control medium into the machine
- A central inflow from and outflow to the temperature control tool, as many outlets as necessary to the mould tool because 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", top outlet thread 1/4" for coupling Series DN 6 and DN 9

Max. work. pressure	Temperature	Material	Threads	Medium	Weight/pc. g
PN 15 bar	-20°C – +200°C	Alum. anodised/stainless steel 1.4401	ISO 228	water / oil / air / vacuum	1

Stainless Steel 1.4401 Manifold

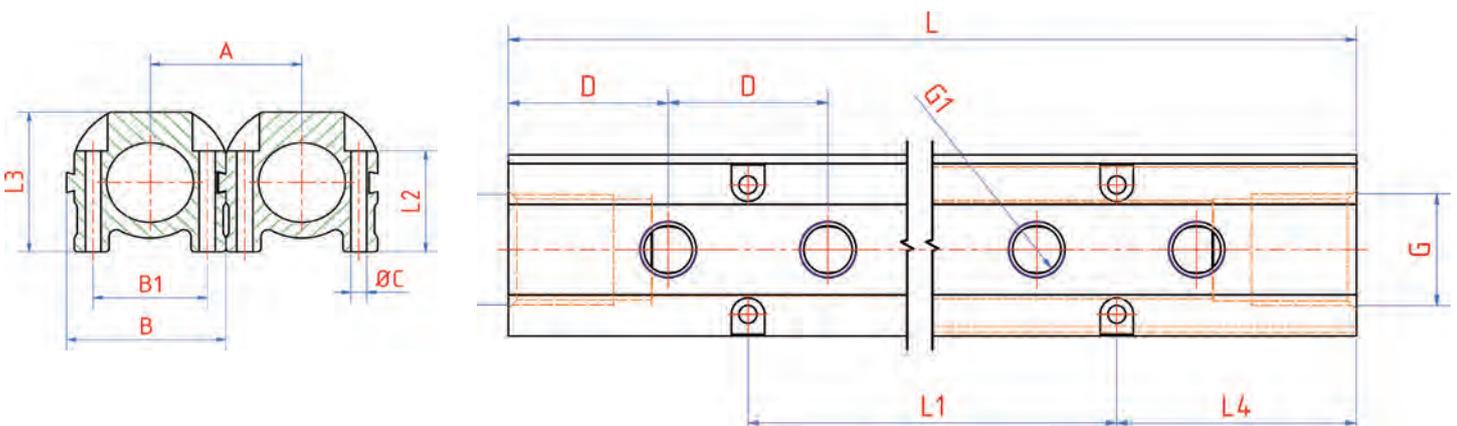
Thread

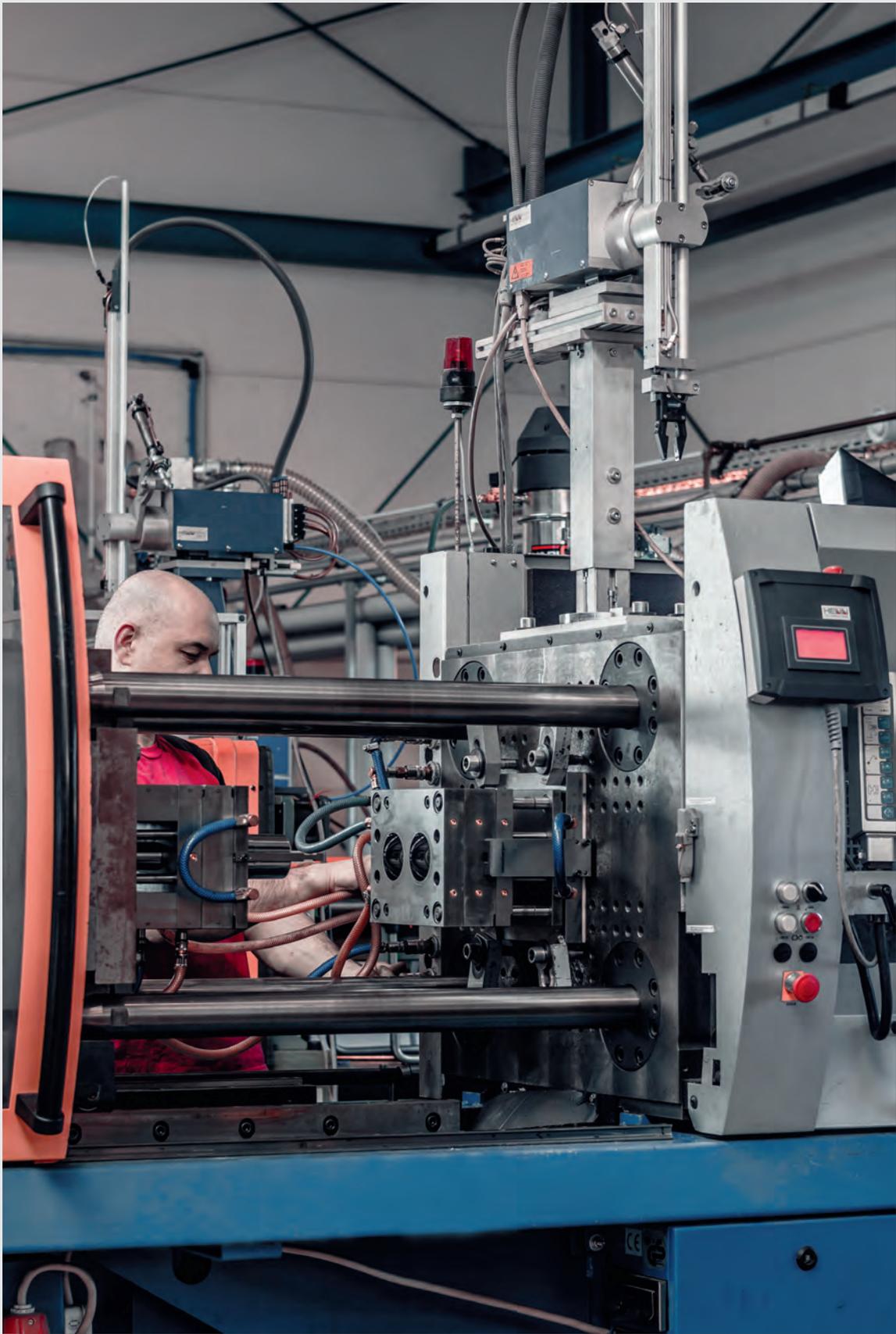
Outlet Inlet

Outlets	G1	G	I	B	L1	L2	L3	L4	ØC	A	D	B1	Weight/pc. g	TypeNo.
4	G1/4"	G 3/4"	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	1490	VBE 34144-190

Blank End Plug for Manifolds

Male Thread	Inner Hexagon	Material	Weight/pc. g	Type No.
G 3/4"	SW 12	MS 58	80	VBS-34







Claw couplings

The robust classic for aggressive applications



LUDECKE claw couplings made of stainless steel 1.4401 and 1.4305 are manufactured according to investment casting (lost wax casting), which guarantees a smooth and plain surface finish.

The stainless steel range of claw couplings are dedicated for the handling with tough and aggressive mediums (depending on mixture / concentration) in tank and container manufactures, chemical and petro chemical, as well as food and beverage applications.

Features

- Safety notches
- Optimized flow characteristics due to large bore
- Acid resistant FKM seal, other compounds also available
- Turned seal holder, 100% sealed
- Turned barb design for perfect hose connection

The Claw Coupling

Series/ nominal diameter	DIN 3489
Coupling body:	Stainless Steel 1.4401
O-rings:	FKM
Seals for other media on request:	GPOR, SPOR-N, TFEP, EPDM
Max. Working Pressure:	PN 16 bar
Temperature:	-30°C - + 200°C
Thread Connections:	ISO 228
Claw width:	42 mm



MODY – Safety – Hose claw coupling Unlimited safety – easy and quick to operate

claw distance of 42 mm

easy connection and disconnection

high-performance rubber ring of FKM

safety lock nut for highest possible safety, sealing and durability

safety notches prevent an unintended opening of the claw parts

Soft design of hose barbs to prevent damage on hose and to fit tight

Series/ nominal diameter	DIN 3238
Coupling body:	Stainless Steel 1.4401/ 1.4581
O-rings:	FKM
Seals for other media on request:	GPOR, SPOR-N, TFEP, EPDM
Max. Working Pressure:	PN 16 bar
Temperature:	-30°C - + 200°C
Thread Connections:	ISO 228
Claw width:	42 mm

To ensure a safe connection – the claw coupling connection is supported by an extra screw lock mechanism which does not allow any unintended disconnection process. As the counterpart we recommend the DIN3489 claw coupling to combine with the MODY safety Hose claw coupling, acc. to DIN 3238.

The coupling concept: simply brilliant

Both claw heads are pushed together so the sealing surfaces are in touch. Then the two ends are turned until the claws are engaged.



To disconnect press the two ends together, twist them backwards to open and take off one end.



To ensure a proper locking, the MODY safety screw type coupling is locked with an additional locking nut underneath the claw head.

Claw Couplings DIN 3489 / DIN 3238

of stainless steel 1.4401

- High quality couplings of rust and acid-resistant steel 1.4401, turned connections at Mody-Safety-Couplings Stainless steel 1.4305
- With acid-resistant rubber ring of FKM, other materials (☺ below)
- Couplings investment casted, perfect surface finish
- Maximum bore for maximum flow capacity
- Turned gasket seat, therefore 100 % tight
- Turned stem profile for perfect fit of the hose
- 100 % couple-test and sight control
- For aggressive fluids (according to concentration) in chemical or petrochemical industry, in tank or container-construction. For food or drinking water applications use rubber ring type GPOR or SPOR-N

Max. Working Pressure	Temperature	Material	Medium	Claw Distance	Mat. Seal	Threads	☺
PN 16 bar	-30°C – +200°C	1.4401/1.4305	chemical media	42 mm	FKM	ISO 228	1

Hose Claw Couplings DIN 3489

Hose i.D.	DN	b	h	Weight/pc. g	Type No.
3/8" = 10 mm	6.5	63	65	125	EKT 10 V
1/2" = 13 mm	9	63	65	129	EKT 13 V
3/4" = 19 mm	15	63	65	142	EKT 19 V
1" = 25 mm	20	63	65	165	EKT 25 V

Swivelling execution on request.

Hose assembly with hose clamps type SLE (☺ catalogue page 336)

Female Claw Couplings DIN 3489

Thread	DN	b	h	Weight/pc. g	Type No.
G 3/8"	15	63	41.5	173	EKI 38 V
G 1/2"	19	63	41.5	163	EKI 12 V
G 3/4"	20	63	41.5	158	EKI 34 V
G 1"	20	63	41.5	160	EKI 10 V

On request also available with NPT thread against extra charge!

Male Claw Couplings DIN 3489 with thread protective cap

Thread	DN	b	h	Weight/pc. g	Type No.
G 3/8"	10	63	39	148	EKA 38 V
G 1/2"	14	63	39	151	EKA 12 V
G 3/4"	19	63	41.5	155	EKA 34 V
G 1"	20	63	41.5	180	EKA 10 V

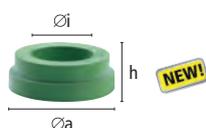
On request also available with NPT thread against extra charge!

Blank Ends DIN 3489

Execution	b	h	Material	Weight/pc. g	☺	Type No.
without chain	63	42		144		EKO V
with chain	63	42		136		EKM V
chain (spare part)			1.4301	7	10	EKMV-K

Original Rubber Ring DIN 3489

Resistance	Temp.°C	Material	Colour	Shore A	Øi	Øa	h	Weight/pc. g	☺	Type No.
chem. media	-30 /+200	FKM	green	50°	20	34	10.5	9	10	GVOR
Steam	-40 /+200	TFEP	red	65°	20	33	10	6	10	GDOR
foods	-40 /+130	EPDM	nature	70°	20	34	10.5	9	10	GPOR



Hose assembly with thread ferrule

- Free of dead space hose assembly for optimum safety- and hygiene-standard, no dirt nests!
- Please note correct hose dimensions!



Hose Claw Couplings with thread ferrule (according to DIN EN 14 424)

Hose Dimension	DN	b	h	Weight/pc. g	Type No.
1/2" = 13 x 3	11	63	57	170	EKTQ 133 V
1/2" = 13 x 5	11	63	57	175	EKTQ 135 V
5/8" = 15 x 5	13	63	57	190	EKTQ 155 V
3/4" = 19 x 5	16	63	57	195	EKTQ 195 V
3/4" = 19 x 6	16	63	57	200	EKTQ 196 V
1" = 25 x 5	22	63	62	250	EKTQ 255 V
1" = 25 x 7	22	63	62	260	EKTQ 257 V

(Thread ferrule brass chromed).

Assembly instructions for thread ferrules (© catalogue page 359).



Mody-Safety-Hose Claw Couplings DIN 3238

Hose i.D.	DN	b	h	Weight/pc. g	Type No.
1/2" = 13 mm	9	63	105	337	EKS 13 V
3/4" = 19 mm	15	63	105	350	EKS 19 V
1" = 25 mm	18	63	105	380	EKS 25 V

Other sizes on request.



Hose assembly with hose clamps type SLE (© catalogue page 336)



Mody-Safety-Hose Claw Couplings with brass safety clamp for steam applications

For Hose	DN	Mat. sealing	b	h	Weight/pc. g	Type No.
13 x 6 (1/2")	10	TFEP (SDOR-N)	63	120	840	EKS 13 KSM
19 x 7 (3/4")	15	TFEP (SDOR-N)	63	120	940	EKS 19 KSM

For Hose 25 x 7,5 (1") on request



Mody-Safety Male Thread Claw Couplings DIN 3238 with new seal holder

Thread	DN	b	h	Weight/pc. g	Type No.
G 1/2"	13	63	77	320	EKSA 12 V
G 3/4"	18	63	80	335	EKSA 34 V
G 1"	18	63	82	370	EKSA 10 V



Mody-Safety Female Thread Claw Couplings DIN 3238

Thread	DN	b	h	Weight/pc. g	Type No.
G 1/2"	18	63	80	345	EKSI 12 V
G 3/4"	18	63	95	430	EKSI 34 V
G 1"	18	63	100	530	EKSI 10 V



Original Rubber Ring for MODY-Safety Claw Couplings DIN 3238

Version	Resistance	Temp. °C	Material	Colour	Shore A	Øi	Øa	h	Weight/pc. g	⊠	Type No.
DIN 3238	chem. media	-30 / +200	FKM	green	70°	21	30	4	2	10	SVOR-N
OLD	chem. media	-30 / +200	FKM	green	60°	21	32,5	7	5	10	SVOR
DIN 3238	steam	-40 / +200	TFEP	red	65°	21	30	4	2	10	SDOR-N
DIN 3238	foods	-40 / +130	EPDM	nature	75°	21	30	4	2	10	SPOR-N





Chemical and Industrial Kamlok systems and fittings

Systems for all applications



LUDECKE offers a coupling portfolio for the handling in aggressive chemical and industrial application (i.e. petro chemical, shipbuilding, agriculture, food and beverage, as well as medical technology), which allows the utilization under nearly all circumstances.

Stainless steel Kamlok couplings are used in various applications. These products are manufactured with top quality material for heavy duty use. This asymmetrical coupling system, is locked by two handles, a male and female part. The hose assembly for MIL-Norm couplings assembled with clamps, for DIN EN 14 420-7 couplings with forged safety clamps.

A product innovation are Material Conveying Quick Connect Couplings. The product is light weight and easy to handle. The smooth and plain inner design prevents any abrasion during the operation. The locking ball operated sleeve design offers easy handling during the connection process. Material Conveying Quick Connect Couplings are mainly used for bulk material (i. e. vacuum-conveying of granulate material in the Plastics Industry).

LUDECKE Industrial Kamlok Quick Connect Couplings and Fittings

	Kamlok Couplings and Plugs	Kamlok Quick Couplings	Thread Stems	Steam Screwings	Material Conveying Quick Connect Couplings*
					
Series/ nominal diameter	DIN EN 14 420-7	US-MIL-Norm / DIN EN 14 420-7	DIN EN 14 420-5	DIN EN 14 423	DN 41*
Sleeve:	-	-	-	-	Alumin.(hard coated)
Material fitting:	-	-	-	Stainless Steel 1.4305	-
Material clamp collar:	-	-	-	MS 58	-
Springs, Rings:	-	-	-	-	Stainless Steel 1.4310
Balls:	-	-	-	-	Stainless Steel 1.4034
O-rings:	NBR	NBR	PTFE	Frenzelit Novatec Spez.	NBR
Seals f. other media on request:	Hypalon, EPDM, FKM	Hypalon, EPDM, FKM	-	-	-
Handle:	Stainless Steel 1.4401	Stainless Steel 1.4401	-	-	-
Coupling body, Plug:	Stainless Steel 1.4401	Stainless Steel 1.4401	Stainless Steel 1.4401	-	Stainless Steel 1.4305
Max. Working Pressure:	PN 16 bar	PN 10/16 bar	PN 25 bar	PN 18 bar	PN 10 bar
Temperature:	-40°C - + 95°C	-40°C - + 95°C	-40°C - + 95°C	up to 210/ 120°C	-15°C - + 95°C
Thread Connections:	-	ISO 228/ DIN 2999	ISO 228	ISO 228/ DIN 2999	ISO 228

*for divers Material
*temperature resistance is subject to the suitable medium

Kamlok Quick Couplings and Plugs

DIN EN 14 420-7 (formerly DIN 2828) of stainless steel 1.4401 electro polished

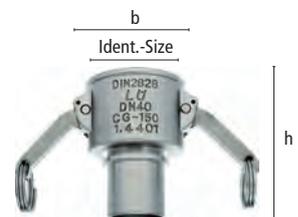
- High quality, robust couplings acc. to DIN EN 14 420-7 for aluminium clamps
- Interchangeable with world-wide used types
- Surface electro polished, Couplings generally with handle securing and safety clips
- Rubber Rings of Perbunan, Hypalon, EPDM and FKM and handles as spare parts available
- Hose stem machined
- Attention: only same type-size interchangeable!
- Universal coupling for aggressive fluids (according to concentration) in chemical- and petrochemical industry, steel-, food plants, medicine technique, off-shore or agriculture. EPDM sealing ring with approval for edibles/foods

Max. Working Pressure	Material	Mat. Handle	Mat. Seal	Medium	Norm	Temperature	
PN 16 bar	1.4401	1.4401	Perbunan	different media	DIN DN 14 420-7	-40°C – +95°C	1

Couplings with hose stem according DIN EN 14 420-7 Form CC for aluminium clamps

Type-Size	For Hose	DN	b	Ident.-Size	Passage	h	For Clamp	Weight/pc. g	Type No.
75 = 3/4"	19 x 6	20	60	32.4	14.5	77	KSA 30-33	254	75-CG-SS-BU
100 = 1"	25 x 6	25	66	37.3	21	83	KSA 36-39	335	100-CG-SS-BU
125 = 1 1/4"	32 x 6	32	77	46	27.5	89	KSA 43-46	570	125-CG-SS-BU
150 = 1 1/2"	38 x 6.5	40	82	54	33	91	KSA 50-53	653	150-CG-SS-BU
200 = 2"	50 x 8	50	95	63.8	45.5	103	KSA 63-67	894	200-CG-SS-BU
250 = 2 1/2"	63 x 8	65	107	76.5	58.5	120	KSA 78-82	1273	250-CG-SS-BU
300 = 3"	75 x 8	80	132	92.2	70	127	KSA 89-93	1645	300-CG-SS-BU

Aluminium Clamps (© catalogue page 75)



Plugs with hose stem according DIN EN 14 420-7 Form EC for aluminium clamps

Type-Size	For Hose	DN	Ident.-Size	Passage	h	For Clamp	Weight/pc. g	Type No.
75 = 3/4"	19 x 6	20	32.1	15	70	KSA 30-33	120	75-EG-SS
100 = 1"	25 x 6	25	36.7	20.5	78	KSA 36-39	190	100-EG-SS
125 = 1 1/4"	32 x 6	32	45.5	27.5	84	KSA 43-46	323	125-EG-SS
150 = 1 1/2"	38 x 6.5	40	53.4	33	85	KSA 50-53	400	150-EG-SS
200 = 2"	50 x 8	50	63	45	100	KSA 63-67	586	200-EG-SS
250 = 2 1/2"	63 x 8	65	75.8	56.5	113	KSA 78-82	882	250-EG-SS
300 = 3"	75 x 8	80	91.5	70	120	KSA 89-93	1122	300-EG-SS

Aluminium Clamps (© catalogue page 75)



Current information about standards:

- DIN 2828 is replaced by DIN EN 14 420-7
- New form marking:
 - 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 are adapted accordingly
- Type approval tests and quality control:
 - all types are checked using test jack connectors and defined test criteria
- Producer 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

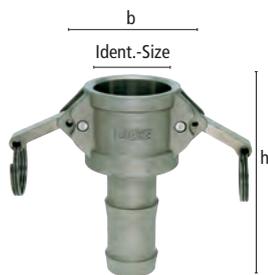


Kamlok Quick Couplings

of stainless steel 1.4401

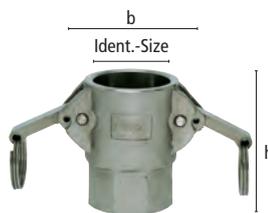
- High quality, robust couplings acc. to US-Mil.-Standard (MIL-C-27487) or DIN EN 14 420-7 (formerly DIN 2828)
- Interchangeable with world-wide used types
- Couplings generally with handle securing and safety clips (steel, zinc-plated)
- Female threads with thread sealing ring of PTFE
- Seals of Perbunan, Hypalon, EPDM and FKM and handles as spare parts
- **Universal coupling for aggressive fluids (according to concentration) in chemical- and petrochemical industry, steel-, food plants, medicine technique, off-shore or agriculture**
- **Current information about standards for DIN EN 14 420-7**

Max. Working Pressure	Material	Mat. Handle	Mat. Seal	Medium	Norm	Threads	Temperature	
PN 10 / 16 bar	1.4401	1.4401	Perbunan	different media	MIL / DIN EN	ISO 228 / DIN 2999	-40°C – +95°C	1



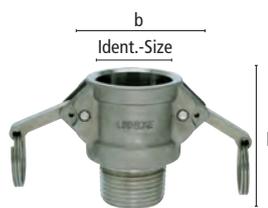
Couplings with hose stem according to US-MIL-Norm

Type-Size	Hose i.D.	b	DN	h	Ident.-Size	Passage	Weight/pc. g	Type No.
50 = 1/2"	13 mm	40	15	86	24.5	8	150	50-C-SS-BU *
75 = 3/4"	19 mm	63	20	82	32.4	14	238	75-C-SS-BU
100 = 1"	25 mm	72	25	97	37.3	20	358	100-C-SS-BU
125 = 1 1/4"	32 mm	83	32	108	46	25.5	600	125-C-SS-BU
150 = 1 1/2"	38/40 mm	90	40	112	54	32	723	150-C-SS-BU
200 = 2"	50 mm	102	50	130	63.8	44	846	200-C-SS-BU
250 = 2 1/2"	63 mm	119	65	136	76.5	56.5	1214	250-C-SS-BU
300 = 3"	75 mm	135	80	162	92.2	75	1834	300-C-SS-BU
400 = 4"	100 mm	174	100	163	120.3	95	3045	400-C-SS-BU



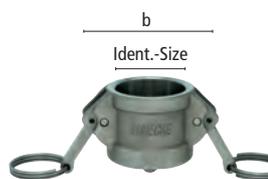
Couplings with female thread DIN EN 14 420-7 form DF and thread sealing ring

Type-Size	Thread	b	DN	h	Ident.-Size	Passage	Weight/pc. g	Type No.
50 = 1/2"	G 1/2"	40	15	45	24.5	15	147	50-D-SS-BU *
75 = 3/4"	G 3/4"	63	20	51	32.4	17.5	265	75-D-SS-BU
100 = 1"	G 1"	72	25	62	37.3	23	398	100-D-SS-BU
125 = 1 1/4"	G 1 1/4"	83	32	70	46	31	773	125-D-SS-BU
150 = 1 1/2"	G 1 1/2"	90	40	71	54	37	817	150-D-SS-BU
200 = 2"	G 2"	102	50	78	63.8	47	880	200-D-SS-BU
250 = 2 1/2"	G 2 1/2"	119	65	77	76.5	62	1221	250-D-SS-BU
300 = 3"	G 3"	135	80	91	92.2	75	1802	300-D-SS-BU
400 = 4"	G 4"	174	100	85	120.3	103	2354	400-D-SS-BU



Couplings with male thread DIN EN 14 420-7 form BF

Type-Size	Thread	b	DN	h	Ident.-Size	Passage	Weight/pc. g	Type No.
50 = 1/2"	R 1/2"	40	15	47	24.5	14	130	50-B-SS-BU *
75 = 3/4"	R 3/4"	63	20	54	32.4	19	233	75-B-SS-BU
100 = 1"	R 1"	72	25	64	37.3	25	343	100-B-SS-BU
125 = 1 1/4"	R 1 1/4"	83	32	70	46	32	592	125-B-SS-BU
150 = 1 1/2"	R 1 1/2"	90	40	71	54	38	694	150-B-SS-BU
200 = 2"	R 2"	102	50	77	63.8	51	708	200-B-SS-BU
250 = 2 1/2"	R 2 1/2"	119	65	85	76.5	63	1007	250-B-SS-BU
300 = 3"	R 3"	135	80	95	92.2	75	1438	300-B-SS-BU
400 = 4"	R 4"	174	100	90	120.3	102	1988	400-B-SS-BU



Dust Caps EN 14 420-7 form DC

Type-Size	b	DN	h	Ident.-Size	Weight/pc. g	Type No.
50 = 1/2"	40	15	42	24.5	123	50-DC-SS-BU *
75 = 3/4"	63	20	42	32.4	183	75-DC-SS-BU
100 = 1"	72	25	49	37.3	274	100-DC-SS-BU
125 = 1 1/4"	83	32	57	46	493	125-DC-SS-BU
150 = 1 1/2"	90	40	59	54	559	150-DC-SS-BU
200 = 2"	102	50	63	63.8	756	200-DC-SS-BU
250 = 2 1/2"	119	65	67	76.5	897	250-DC-SS-BU
300 = 3"	135	80	70	92.2	1296	300-DC-SS-BU
400 = 4"	174	100	70	120.3	1898	400-DC-SS-BU

* Type-Size 50 = 1/2" with One-handle and without handle securing

Kamlok Quick Plugs

of stainless steel 1.4401

Plugs with hose stem according to US-MIL-Norm

Type-Size	Hose i.D.	DN	h	Ident.-Size	Passage	Weight/pc. g	Type No.
50 = 1/2"	13 mm	15	87	24	8	120	50-E-SS
75 = 3/4"	19 mm	20	88	32.1	14	171	75-E-SS
100 = 1"	25 mm	25	103	36.7	20	284	100-E-SS
125 = 1 1/4"	32 mm	32	110	45.5	25	442	125-E-SS
150 = 1 1/2"	38/40 mm	40	116	53.4	32	563	150-E-SS
200 = 2"	50 mm	50	146	63	43	812	200-E-SS
250 = 2 1/2"	63 mm	65	148	75.8	56	1186	250-E-SS
300 = 3"	75 mm	80	167	91.5	67	1815	300-E-SS
400 = 4"	100 mm	100	175	119.5	93	2945	400-E-SS



Plugs with female thread DIN EN 14 420-7 form AF and thread sealing ring

Type-Size	Thread	DN	h	Ident.-Size	Passage	Weight/pc. g	Type No.
50 = 1/2"	G 1/2	15	41	24	14	76	50-A-SS
75 = 3/4"	G 3/4"	20	42	32.1	22	171	75-A-SS
100 = 1"	G 1"	25	52	36.7	24	222	100-A-SS
125 = 1 1/4"	G 1 1/4"	32	58	45.5	29	386	125-A-SS
150 = 1 1/2"	G 1 1/2"	40	62	53.4	38	493	150-A-SS
200 = 2"	G 2"	50	71	63	51	644	200-A-SS
250 = 2 1/2"	G 2 1/2"	65	75	75.8	58	945	250-A-SS
300 = 3"	G 3"	80	79	91.5	74	1320	300-A-SS
400 = 4"	G 4"	100	81	119.5	97	2118	400-A-SS



Plugs with male thread DIN EN 14 420-7 form FF

Type-Size	Thread	DN	h	Ident.-Size	Passage	Weight/pc. g	Type No.
50 = 1/2"	R 1/2"	15	49	24	14	103	50-F-SS
75 = 3/4"	R 3/4"	20	64	32.1	22	185	75-F-SS
100 = 1"	R 1"	25	72	36.7	24	258	100-F-SS
125 = 1 1/4"	R 1 1/4"	32	81	45.5	29	477	125-F-SS
150 = 1 1/2"	R 1 1/2"	40	82	53.4	38	565	150-F-SS
200 = 2"	R 2"	50	90	63	51	650	200-F-SS
250 = 2 1/2"	R 2 1/2"	65	105	75.8	58	1317	250-F-SS
300 = 3"	R 3"	80	104	91.5	74	1766	300-F-SS
400 = 4"	R 4"	100	114	119.5	97	2804	400-F-SS



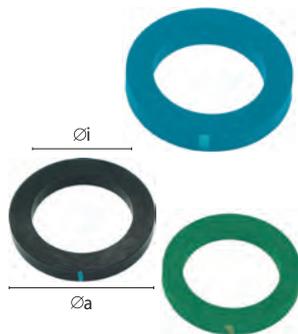
Dust Plugs DIN EN 14 420-7 form DP

Type-Size	DN	h	Ident.-Size	Weight/pc. g	Type No.
50 = 1/2"	15	36	24	73	50-DP-SS
75 = 3/4"	20	39	32.1	93	75-DP-SS
100 = 1"	25	46	36.7	139	100-DP-SS
125 = 1 1/4"	32	55	45.5	260	125-DP-SS
150 = 1 1/2"	40	57	53.4	335	150-DP-SS
200 = 2"	50	60	63	441	200-DP-SS
250 = 2 1/2"	65	66	75.8	657	250-DP-SS
300 = 3"	80	66	91.5	804	300-DP-SS
400 = 4"	100	68	119.5	1525	400-DP-SS



Spare Parts for Kamlok Quick Couplings

according to DIN EN 14 420-7 or US MIL-Norm C 27487



Sealing Rings for Kamlok-Couplings

Table of Resistance (© catalogue page 184 / 185)

Type-Size	DN	Øi	Øa	h	⊞	Material: Perbunan	
						Colour:	black
50 = 1/2"	15	17.5	27	4	10	Type No.	EDR-50-BU
75 = 3/4"	20	22	35	5.5	10		EDR-75-BU
100 = 1"	25	27	39	6.5	10		EDR-100-BU
125 = 1 1/4"	32	34.5	49	6.5	10		EDR-125-BU
150 = 1 1/2"	40	41	55	6.5	10		EDR-150-BU
200 = 2"	50	51	66	6.5	10		EDR-200-BU
250 = 2 1/2"	65	60	79	6.5	10		EDR-250-BU
300 = 3"	80	76	95	6.5	10		EDR-300-BU
400 = 4"	100	101	124	6.5	10		EDR-400-BU

Thread Sealing Rings for female thread parts according to DIN EN 14 420-5 or 14 420-7

Type-Size	Øi	Øa	h	⊞	Material: PTFE	
					Type No.	
50 = 1/2"	15	21	2	10	GDR-50-PTFE	
75 = 3/4"	18	26	2	10	GDR-75-PTFE	
100 = 1"	23	33	2	10	GDR-100-PTFE	
125 = 1 1/4"	32	42	2	10	GDR-125-PTFE	
150 = 1 1/2"	38	48	2	10	GDR-150-PTFE	
200 = 2"	49	60	2	10	GDR-200-PTFE	
250 = 2 1/2"	63	76	2	10	GDR-250-PTFE	
300 = 3"	77	88	3	10	GDR-300-PTFE	
400 = 4"	100	114	3	10	GDR-400-PTFE	

Sealing Rings of PTFE for female thread fittings of stainless steel

Sealing Rings of PUR for female thread fittings of brass

Cam Lever complete with safety ring and slotted pin for stainless steel Kamlok-Couplings



Type-Size	Weight/pc. g	Material	⊞	Type No.
50 + 75	19	1.4401	10	KAH 1
100	29	1.4401	10	KAH 2
125. 150. 200. 250	68	1.4401	10	KAH 3
300. 400	110	1.4401	10	KAH 4

Chain of stainless steel for Dust Caps and -Plugs



Length	Weight/pc. g	Material	⊞	Type No.
20cm	7	1.4301	10	EKMV-K

PTFE-packed

(U-Form)

with EPDM-core

Hypalon		EPDM		FKM		PTFE-packed (U-Form) with EPDM-core		
Colour:	blue*	Colour:	yellow*	Colour:	green*			
Type No.		Type No.		Type No.		Type No.		
DR-50-HYP		EDR-50-EPDM		EDR-50-FPM		-		-
EDR-75-HYP		EDR-75-EPDM		EDR-75-FPM		EDR-75-EPPT		1
EDR-100-HYP		EDR-100-EPDM		EDR-100-FPM		EDR-100-EPPT		1
EDR-125-HYP		EDR-125-EPDM		EDR-125-FPM		EDR-125-EPPT		1
EDR-150-HYP		EDR-150-EPDM		EDR-150-FPM		EDR-150-EPPT		1
EDR-200-HYP		EDR-200-EPDM		EDR-200-FPM		EDR-200-EPPT		1
EDR-250-HYP		EDR-250-EPDM		EDR-250-FPM		EDR-250-EPPT		1
EDR-300-HYP		EDR-300-EPDM		EDR-300-FPM		EDR-300-EPPT		1
EDR-400-HYP		EDR-400-EPDM		EDR-400-FPM		EDR-400-EPPT		1

with approval for
edibles/foods

PUR

Type No.
GDR-50-PUR
GDR-75-PUR
GDR-100-PUR
GDR-125-PUR
GDR-150-PUR
GDR-200-PUR
GDR-250-PUR
GDR-300-PUR
GDR-400-PUR

*Sizes 50, 250-400 black with colour marking

Steam Screwings DIN EN 14 423

- Solid, extreme robust female and male thread screwings of zinc-plated steel, stainless steel 1.4305 or brass MS58 incl. forged safety clamps of brass for steam hoses
- Female thread screwing two parts, swivelling.
Connecting Nut flat sealing with female thread sealing ring Frenzelit Novatec Special
- Screws for safety clamps DIN 912-12.9 (Dacro 500A coated)
- Pressure-temperature table saturated steam (☉ catalogue page 233)
- **To be used for saturated steam up to +210°C, or hot water up to +120°C and up to 18 bar working pressure**

Max. Working Pressure	Mat. Screwing	Mat. Clamp	Mat. Seal	Medium	Norm	Threads	Temperature
PN 18 bar	Steel / MS 58 / 1.4305	MS 58	Frenzelit Novatec Spez.	steam / hot water	DIN EN 14423	ISO 228/DIN 2999	up to 210 / 120 °C 1

Male thread screwings of steel (zinc-plated and yellow passivated, free of chrome VI) with safty clamp of brass

For Hose	Thread	b	DN	Passage	h	Hexagon	Weight/pc. g	Type No.
13 x 6	R 1/2"	53	15	9	95	22	447	DAK 12-13 ST
19 x 7	R 3/4"	68	20	14	95	27	700	DAK 34-19 ST
25 x 7,5	R 1"	77	25	20	100	36	933	DAK 10-25 ST
38 x 8	R 1 1/2"	101	40	33	125	50	1940	DAK 15-38 ST
50 x 9	R 2"	111	50	44	140	60	2631	DAK 20-50 ST

Male thread screwings of brass MS 58 with safety clamp of brass

For Hose	Thread	b	DN	Passage	h	Hexagon	Weight/pc. g	Type No.
13 x 6	R 1/2"	53	15	9	95	22	447	DAK 12-13 MS
19 x 7	R 3/4"	68	20	14	95	27	700	DAK 34-19 MS
25 x 7,5	R 1"	77	25	20	100	36	940	DAK 10-25 MS
38 x 8	R 1 1/2"	101	40	33	125	50	1940	DAK 15-38 MS
50 x 9	R 2"	111	50	44	140	60	2631	DAK 20-50 MS

Male thread screwings of stainless steel 1.4305 with safety clamps of brass

For Hose	Thread	b	DN	Passage	h	Hexagon	Weight/pc. g	Type No.
13 x 6	R 1/2"	53	15	9	95	22	460	DAK 12-13 SS
19 x 7	R 3/4"	68	20	14	95	27	530	DAK 34-19 SS
25 x 7,5	R 1"	77	25	20	100	36	670	DAK 10-25 SS

Female thread screwings of steel (zinc-plated and yellow passivated, free of chrome VI) with safety clamp of brass

For Hose	Thread	b	DN	Passage	h	Hexagon	Weight/pc. g	Type No.
13 x 6	G 1/2"	53	15	9	88	27	480	DIK 12-13 ST
19 x 7	G 3/4"	68	20	14	92	32	680	DIK 34-19 ST
25 x 7,5	G 1"	77	25	20	93	41	1022	DIK 10-25 ST
38 x 8	G 1 1/2"	101	40	33	120	55	1930	DIK 15-38 ST
50 x 9	G 2"	111	50	44	131	70	2613	DIK 20-50 ST

(Attention: Replace female thread sealing ring when screwing is reused!)

Female thread screwings of brass MS 58 with safety clamp of brass

For Hose	Thread	b	DN	Passage	h	Hexagon	Weight/pc. g	Type No.
13 x 6	G 1/2"	53	15	9	88	27	480	DIK 12-13 MS
19 x 7	G 3/4"	68	20	14	92	32	680	DIK 34-19 MS
25 x 7,5	G 1"	77	25	20	93	41	1022	DIK 10-25 MS
38 x 8	G 1 1/2"	101	40	33	120	55	1930	DIK 15-38 MS
50 x 9	G 2"	111	50	44	131	70	2613	DIK 20-50 MS

(Attention: Replace female thread sealing ring when screwing is reused!)

Female thread screwings of stainless steel 1.4305 with safety clamp of brass

For Hose	Thread	b	DN	Passage	h	Hexagon	Weight/pc. g	Type No.
13 x 6	G 1/2"	53	15	9	88	27	530	DIK 12-13 SS
19 x 7	G 3/4"	68	20	14	92	32	700	DIK 34-19 SS
25 x 7,5	G 1"	77	25	20	93	41	950	DIK 10-25 SS



b



b



b



b

Steam Screwings DIN EN 14 423

(formerly DIN 2826)

Male and female thread stems

Max. Working Pressure	Mat. Screwing	Mat. Seal	Medium	Norm	Threads	Temperature
PN 18 bar	steel / MS 58/1.4305	Frenzelit Novatec Spez.	steam / hot water	DIN EN 14423	ISO 228/DIN 2999	up to 210 / 120 °C

Male thread stems of steel (zinc-plated and yellow passivated, free of chrome VI)

For Hose	Thread	DN	Passage	h	Hex.	For safety clamp	Weight/pc. g	Type No
13 x 6	R 1/2"	15	9	90	22	KSM 12 D	115	DA 12-13 SS
19 x 7	R 3/4"	20	14	91	27	KSM 34 D	175	DA 34-19 SS
25 x 7.5	R 1"	25	20	95	36	KSM 10 D	270	DA 10-25 SS



Male thread stems of brass MS 58

For Hose	Thread	DN	Passage	h	Hex.	For safety clamp	Weight/pc. g	Type No
13 x 6	G 1/2"	15	9	82.5	27	KSM 12 D	155	DI 12-13 SS
19 x 7	G 3/4"	20	14	86.5	32	KSM 34 D	185	DI 34-19 SS
25 x 7.5	G 1" 25	20	20W	87.5	41	KSM 10 D	265	DI 10-25 SS



Male thread stems of stainless steel 1.4305

For Hose	Thread	DN	Passage	h	Hex.	For safety clamp	Weight/pc. g	Type No
13 x 6	R 1/2"	15	9	90	22	KSM 12 D	110	DA 12-13 ST
19 x 7	R 3/4"	20	14	91	27	KSM 34 D	170	DA 34-19 ST
25 x 7.5	R 1"	25	20	95	36	KSM 10 D	270	DA 10-25 ST
38 x 8	R 1 1/2"	40	33	118	50	KSM 15 D	510	DA 15-38 ST
50 x 9	R 2"	50	44	131	60	KSM 20 D	830	DA 20-50 ST



Female thread stems of steel (zinc-plated and yellow passivated, free of chrome VI)

For Hose	Thread	DN	Passage	h	Hex.	For safety clamp	Weight/pc. g	Type No
13 x 6	R 1/2"	15	9	90	22	KSM 12 D	120	DA 12-13 MS
19 x 7	R 3/4"	20	14	91	27	KSM 34 D	185	DA 34-19 MS
25 x 7.5	R 1"	25	20	95	36	KSM 10 D	280	DA 10-25 MS
38 x 8	R 1 1/2"	40	33	118	50	KSM 15 D	550	DA 15-38 MS
50 x 9	R 2"	50	44	131	60	KSM 20 D	900	DA 20-50 MS



Female thread stems of brass MS 58

For Hose	Thread	DN	Passage	h	Hex.	For safety clamp	Weight/pc. g	Type No
13 x 6	G 1/2"	15	9	82.5	27	KSM 12 D	125	DI 12-13 ST
19 x 7	G 3/4"	20	14	86.5	32	KSM 34 D	180	DI 34-19 ST
25 x 7.5	G 1"	25	20	87.5	41	KSM 10 D	280	DI 10-25 ST
38 x 8	G 1 1/2"	40	33	111.5	55	KSM 15 D	515	DI 15-38 ST
50 x 9	G 2"	50	44	119.5	70	KSM 20 D	810	DI 20-50 ST



Female thread stems of stainless steel 1.4305

For Hose	Thread	DN	Passage	h	Hex.	For safety clamp	Weight/pc. g	Type No
13 x 6	G 1/2"	15	9	82.5	27	KSM 12 D	130	DI 12-13 MS
19 x 7	G 3/4"	20	14	86.5	32	KSM 34 D	200	DI 34-19 MS
25 x 7.5	G 1"	25	20	87.5	41	KSM 10 D	320	DI 10-25 MS
38 x 8	G 1 1/2"	40	33	111.5	55	KSM 15 D	570	DI 15-38 MS
50 x 9	G 2"	50	44	119.5	70	KSM 20 D	890	DI 20-50 MS



Other dimensions on request

Steam Screwings DIN EN 14 423

(formerly DIN 2826)

Safety Clamps and sealing rings



Max. Working Pressure	Mat. Clamp	Mat. Screws	Medium	Norm	Temperature	
PN 18 bar	MS 58	DIN 912-12.9	satur.steam / hot water	DIN EN 14423	up to 210 / 120 °C	1

Safety clamps of brass MS 58 (screws DIN 912-12.9 - Dacro 500 A coated)

For hose	b	DN	h	Screws	Weight/pc. g	Type No.
13 x 6	53	15	65	M 6 x 20	336	KSM 12 D
19 x 7	68	20	65	M 8 x 25	499	KSM 34 D
25 x 7,5	77	25	65	M 8 x 25	742	KSM 10 D
38 x 8	101	40	90	M 10 x 40	1430	KSM 15 D
50 x 9	111	50	100	M 10 x 40	1756	KSM 20 D

Suitable for male and female thread stems DIN 14 423 (© catalogue page 317)

Original sealing rings Frenzelit Novatec Spezial for female threads

Thread	Øi	Øa	h		Type No.
1/2"	13	20	2	10	DGI 12
3/4"	18	26	2	10	DGI 34
1"	23	33	2	10	DGI 10
1 1/2"	38	48	2	10	DGI 15
2"	49	60	2	10	DGI 20

Forged Safety Clamps DIN EN 14 420-3 of aluminium

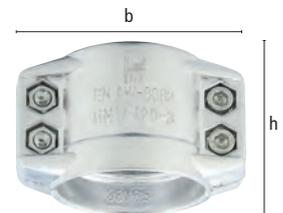
- High quality, robust clamps of forged aluminium
- Easy, safe and removable hose assembly
- Packed loose incl. screws and nuts

Max. Working Pressure	Material	Norm	Material screws	
PN 25 bar	Aluminium	DIN EN 14 420-3	DIN 912-8.8	1

Safety Clamps

For Hose	Hose o.D./Range	b	DN	h	Screws	Weight/pc. g	Type No.
19 x 6	30-33 mm	63	20	50	M 6 x 20	142	KSA 30-33
25 x 6	36-39 mm	69	25	50	M 6 x 20	151	KSA 36-39
32 x 6	43-46 mm	76	32	50	M 6 x 20	162	KSA 43-46
38 x 6.5	50-53 mm	83	40	50	M 6 x 20	167	KSA 50-53
50 x 8	63-67 mm	102	50	56	M 8 x 25	310	KSA 63-67
63 x 8	78-82 mm	120	65	74	M 8 x 25	454	KSA 78-82
75 x 8	89-93 mm	132	80	76	M 8 x 25	486	KSA 89-93
75 x 10	94-97 mm	140	80	76	M 8 x 25	580	KSA 94-97

Other sizes on request.



Hose assembly of forged safety clamps and hose fittings

1. Hose stem brushed with lubricant is pressed into straight-cut hose
2. Clamp halves are put in safety collar around the hose and fixed with care in a vice
3. 4 Screws are fixed regularly (rightly dimensioned hoses keep a small slit between clamp halves)

Thread Stems DIN EN 14 420-5 (formerly DIN 2817) of brass MS 58

- High quality, robust male thread hose stems
- Lightly grooved hose stem with safety collar for aluminium forged clamps
- For direct connection or as adaptor for Kamlok couplings, tank truck couplings.
- To be used for aggressive fluids (according to concentration) in chemical and petrochemical industry, steel- or food-plants, medicine technique, off-shore or agriculture

Max. Working Pressure	Material	Medium	Norm	Threads	Temperature	
PN 25 bar	MS 58	various	DIN EN 14420-5	ISO 228	-40°C – +95°C	1

Male thread stems for safety clamps type KSA

For Hose	Thread	Passage	DN	h	Hexagon	Suitable Clamp	Weight/pc. g	Type No.
13 x 5	G 1/2"	9	15	62	22	–	70	GTA 12-13 MS
19 x 6	G 3/4"	14	20	63.5	27	KSA 30-33	105	GTA 34-19 MS
25 x 6	G 1"	20.5	25	65	36	KSA 36-39	168	GTA 10-25 MS
32 x 6	G 1 1/4"	27.5	32	66	46	KSA 43-46	215	GTA 54-32 MS
38 x 6.5	G 1 1/2"	33	40	73.5	55	KSA 50-53	382	GTA 15-38 MS
50 x 8	G 2"	45	50	80	65	KSA 63-67	537	GTA 20-50 MS



Thread Stems DIN EN 14 420-5

(formerly DIN 2817) of stainless steel 1.4401 electro polished

- High quality, robust female and male-thread hose stems according to DIN EN 14 420-5
- Surface electro polished
- Plain hose stem with safety collar for aluminium forged clamps type KSA
- Female threads flat sealing with thread-sealing ring of PTFE
- For direct connection or as adaptor for Kamlok-couplings, tank truck couplings
- For aggressive fluids (according to concentration) in chemical and petrochemical industry, steel- or food-plants, medicine technique, off-shore or agriculture

Max. Working Pressure	Material	Mat. Seal	Medium	Norm	Threads	Temperature	
PN 25 bar	1.4401	PTFE	different media	DIN EN 14 420-5	ISO 228	-40°C – +95°C	1

Male thread stems for safety clamps type KSA



For Hose	Thread	DN	Passage	Hexagon	h	Suitable Clamp	Weight/pc. g	Type No.
19 x 6	G 3/4"	20	15	27	62	KSA 30-33	99	GTA 34-19 SS
25 x 6	G1"	25	20.5	36	63	KSA 36-39	148	GTA 10-25 SS
32 x 6	G 1 1/4"	32	27.5	46	63.5	KSA 43-46	210	GTA 54-32 SS
38 x 6.5	G 1 1/2"	40	33	55	66.5	KSA 50-53	290	GTA 15-38 SS
50 x 8	G 2"	50	45	*	75.5	KSA 63-67	395	GTA 20-50 SS
63 x 8	G 2 1/2"	65	58	*	94.5	KSA 78-82	655	GTA 25-63 SS
75 x 8	G 3"	80	70	*	97.5	KSA 89-93	775	GTA 30-75 SS

* For hooking according to DIN 1810

Female thread stems for safety clamps type KSA (two parts swivelling)



For Hose	Thread	DN	Passage	Hexagon	h	Suitable Clamp	Weight/pc. g	Type No.
19 x 6	G 3/4"	20	15	30	60	KSA 30-33	92	GTI 34-19 SS
25 x 6	G1"	25	21	36	62	KSA 36-39	126	GTI 10-25 SS
32 x 6	G 1 1/4"	32	28	46	64	KSA 43-46	190	GTI 54-32 SS
38 x 6.5	G 1 1/2"	40	33	55	67	KSA 50-53	322	GTI 15-38 SS
50 x 8	G 2"	50	45	65	77	KSA 63-67	440	GTI 20-50 SS
63 x 8	G 2 1/2"	65	58	85	91	KSA 78-82	837	GTI 25-63 SS
75 x 8	G 3"	80	70	100	100	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
- Producer should be certified according to DIN EN ISO 9001 : 2000
- New maximum operating pressure of 25 bar or application limit of used hose lines

Hose assembly of hose lines according to DIN EN 14 423

1. Hose stem (brushed with lubricant if needed)

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. Clamp halves are put in safety collar around the hose and fixed over cross with assembly-help screws.

3. Put in clamp screws and fix over cross.

4. A small, parallel slit should remain between clamp halves.

5. After putting the hose into operation the screws should be fixed again.

Current 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.
- Producer should be certified according to DIN EN ISO 9001 : 2000.

Material Conveying Quick Connect Couplings

We produce exactly measured coupling systems for vacuum or pressure conveyance of different fluids or solids (granulates etc.) using spiral hoses of different makes for interior and external binding. Additionally as pipe connection or as bulkhead fitting (i.e for distribution devices).

Material: aluminium, stainless steel, steel



Measures: 1" to 4"

Mostly with male thread for screwing on of coupling systems Storz, Guillemin or tank truck couplings or with direct coupling adaptor system Kamlok

- Our adaptor systems are used successfully mainly in the plastics industry and in agriculture.

Material Conveying Quick Connect Couplings

of stainless steel 1.4305, DN 41



- High quality quick coupling system for pressure- or vacuum-conveying of bulk material or liquids, i.e. for vacuum-conveying of granulate materials in the plastics industry
- Stainless Steel for less abrasion
- Coupling sleeve, plug and cap aluminium (hard coated)
- Full free passage
- 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-suction hoses, for other hose dimensions on request
- Plugs for pipe connection with double O-ring sealing and fixing with screw



Max. working pressure	Vacuum	Material	Mat. seals	Temperature	DN	
PN 10 bar	Vacuum	St. steel/aluminium	Perbunan	-15°/+95° C	41	1

SoftFlow Coupling with hose stem

Hose i. D.	l	d	Stem length	Passage	Weight/pc. g	Type No.
38 mm	82	65	45	34	340	GRK 38 T
40 mm	82	65	45	36	340	GRK 40 T
45 mm	82	65	45	41	340	GRK 45 T
50 mm	82	65	45	41	360	GRK 50 T

For hose clips type HS (© catalogue page 337 / 345)

SoftFlow Vacuum-Coupling for pipe connection*

for Pipe O.D	l	d	Passage	Weight/pc. g	Type No.
38 mm	70	65	34	480	GRK 38 R
40 mm	70	65	36	480	GRK 40 R
45 mm	70	65	41	520	GRK 45 R
50 mm	70	65	41	580	GRK 50 R

SoftFlow Coupling with female thread (with thread sealing ring)

Thread	l	d	Passage	Weight/pc. g	Type No.
G 1 1/2"	68	65	41	560	GRK 15 I
G 2"	68	65	41	650	GRK 20 I

SoftFlow Cap Coupling with chain

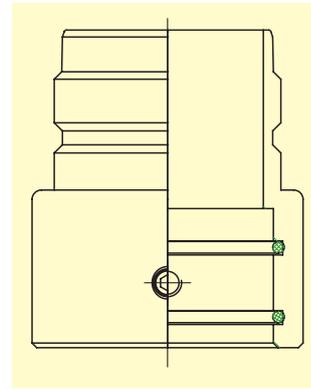
l	d	Material chain	Length chain	Weight/pc. g	Type No.
48	68	stainless steel	170	320	GRK-V

Original Sealing Ring for couplings

Type/Size	Material	Weight/pc. g		Type No.
O-ring 45 x 5 mm	Perbunan	6	10	GRK-D

Adapted hose stems for other hose dimensions/ types on request





Materials:

- Coupling body, plugs: Stainless Steel 1.4305
- Coupling sleeve, Cap Coupling and plugs: Aluminium (hard coated)
- Spring, balls, chain, screws: Stainless steel 1.4410
- Sealing ring: O-ring Perbunan (Buna-N)

SoftFlow Plug with hose stem

Hose i. D.	l	d	Stem length	Passage	Weight/pc. g	Type No.
38 mm	83	55	45	34	310	GRS 38 T
40 mm	83	55	45	36	315	GRS 40 T
45 mm	83	55	45	41	330	GRS 45 T
50 mm	83	55	45	41	360	GRS 50 T

For hose clips type HS/HSE (© catalogue page 337 / 345)

SoftFlow Vacuum-Plug for pipe connection*

for Pipe o. D.	l	d	Passage	Weight/pc. g	Type No.
38 mm	68.5	58	34	360	GRS 38 R
40 mm	68.5	58	36	370	GRS 40 R
45 mm	68.5	58	41	385	GRS 45 R
50 mm	68.5	58	41	420	GRS 50 R

SoftFlow Plug with female thread (with thread sealing ring)

Thread	l	d	Passage	Weight/pc. g	Type No.
G 1 1/2"	65	59	41	350	GRS 15 I
G 2"	65	59	41	380	GRS 20 I

SoftFlow Cap Plug with chain

l	d	Material chain	Length chain	Weight/pc. g	Type No.
60	58	stainless steel	170	195	GRS-V

* Attention: Only suitable for vacuum applications, sealing with O-ring, fixing with screw

Special types/versions, i.e with bulkhead-screwing, plug or colour-codings, other sizes on request





SnowMaster High-Pressure Quick Couplings

High-Pressure Coupling Systems for Snow Pump Installations



Extreme environmental conditions (i.e. ice, snow, sun, huge temperature variation) require the use of superior quality as well as highly reliable couplings and fittings.

SnowMaster High-Pressure Quick Couplings guarantee best safety at work for snow producing equipment, even under extreme environmental conditions.

SnowMaster range includes High-Pressure Quick Couplings, such as Drain Adaptors as well as high-pressure screw connections.

Our hose barb profiles are exactly designed and developed to different hose types and different assembly methods. The quality of the snow coupling range is contentiously tested in our test labs and established in the field since many years.

Overview SnowMaster High-Pressure Quick Couplings

	High-Pressure Quick Couplings	Drain Adaptor	High-Pressure Screwings
			
Series/ nominal diameter	US-Mil-Norm C-27487 / DIN EN 14 420-7		
Coupling body:	Stainless Steel 1.4401	Stainless Steel 1.4401 Body/valve – brass	steel (zinc-plated)
O-rings:	NBR	NBR	
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 Connections:	ISO 228/ DIN 2999	ISO 228/ DIN 2999	ISO 228/ DIN 2999

*temperature resistance is subject to the suitable medium



SnowMaster High-Pressure Quick Couplings

Snow Master Couplings are used on snow pump installations, tunneling or other high-pressure applications with liquids.

The investment casted handle with high-pressure pins crimped on both sides ensures, that male and female stay connected in a locked position.

The handle locking pins mounted to a robust chain and safety clip guarantees that the handle cannot be open unintentionally.



SnowMaster Drain Adaptor

This draining system, made of stainless steel, allows automatic drainage of the lines or while the ring main system is switched off / depressurized to avoid frost damages.



SnowMaster High-Pressure Screwings

The extremely robust hose barb adaptors are used for long-term installations of pipe and hose lines.

We offer threaded (male / female) hose barb adaptors for flat hoses or rubber hoses aligned to our product range

High-Pressure Quick Couplings of stainless steel 1.4401 – System Kamlok PN 60 bar



- High-Pressure type, coupling dimensions according to US-Mil-Norm (C-27487) or DIN 2828
- Essentially stronger housing
- Handle securing with robust chain and safety clip
- Investment casted handle with high-pressure pins crimped on both sides
- TÜV-inspected for 60 bar working pressure (burst pressure test 150 bar) for liquids **
- **Special Coupling System to be used on snow pump installations, tunneling or different high-pressure applications with liquids**

Max. Working Pressure	Material	Mat. Handle	Mat. Seal	Medium	Norm	Threads	Temperature	
PN 60 bar **	1.4401	1.4401	Perbunan	liquids	MIL / DIN	ISO 228 / DIN 2999	-40°C – +95°C	1

Couplings with hose stem for flat hoses or rubber hoses

Type-Size	Hose i. D.	DN	Ident-Size	Weight/pc. g	Type No.
100 = 1"	25-28 mm	25	37.3	380	SKK 100-T
150 = 1 1/2"	38-40 mm	40	54	635	SKK 150-T
200 = 2"	50-54 mm	50	63.8	990	SKK 200-T
200 = 2"	38-40 mm	40	63.8	1360	SKK 200/150-T *
250 = 2 1/2"	63-67 mm	65	76.5	2800	SKK 250-T **

Plugs with hose stem for flat hoses or rubber hoses

Type-Size	Hose i. D.	DN	Ident-Size	Weight/pc. g	Type No.
100 = 1"	25-28 mm	25	36.7	230	SKS 100-T
150 = 1 1/2"	38-40 mm	40	53.4	425	SKS 150-T
200 = 2"	50-54 mm	50	63	740	SKS 200-T
200 = 2"	38-40 mm	40	63	1080	SKS 200/150-T *
250 = 2 1/2"	63-67 mm	65	75.8	2450	SKS 250-T **

Attention: For 1 1/2" and 2" hose connection each 9 different stem profiles types and sizes are available as standard version! For each order the exact hose type and size and preferred assembly method has to be notified to be able to choose the right hose stem version! For new stem profiles: minimum quantity is 50 sets.

Hose assembly methods:

Crimping ferrules of steel (zinc-plated) for hydraulic crimping

For Type-Size	Hose Type	Weight/pc. g	Type No.
1"	flat hose	180	PH-100-S F
1"	rubber hose	215	PH-100-S G
1 1/2"	flat hose	219	PH-150-S F
1 1/2"	rubber hose	333	PH-150-S G
2"	flat hose	240	PH-200-S F
2"	rubber hose	360	PH-200-S G
2 1/2"	flat hose	370	PH-250-S F
2 1/2"	rubber hose	450	PH-250-S G

Attention: Notify exact hose type and -size!

Forged Safety Clamps (Aluminium) DIN EN 14 420-3

For Type-Size	Material screws	Weight/pc. g	Type No.
1"	DIN 912-8.8	151	KSA 36-39
1 1/2"	DIN 912-8.8	167	KSA 50-53
2"	DIN 912-8.8	310	KSA 63-67
2 1/2"	DIN 912-8.8	454	KSA 78-82

Attention: Notify exact hose type and size! Not possible for each hose type!

For flat hose assembly a coverhose is required!

Further assembly methods: Steel band, wire.

(*screwed with thread stem of steel)

(** Type-Size 250 max. Working Pressure 40 bar)

Optional Stem-Types
for steelband for crimping ferrule



High-Pressure Quick Couplings

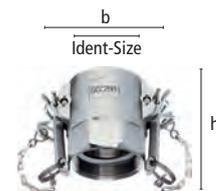


Snow Master
by **LUDECKE**



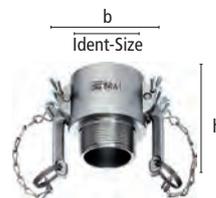
Couplings with female thread and thread sealing ring

Type-Size	Thread	DN	b	Ident.-Size	h	Weight/pc. g	Type No.
100 = 1"	G 1	25	70	37.3	63	450	SKK 100 I
150 = 1 1/2"	G 1 1/2"	40	93	54	73	850	SKK 150 I
200 = 2"	G 2"	50	102	63.8	78	920	SKK 200 I
250 = 2 1/2"	G 2 1/2"	65	110	76.5	78	1300	SKK 250 I**



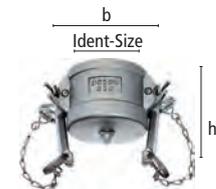
Couplings with male thread

Type-Size	Thread	DN	b	Ident.-Size	h	Weight/pc. g	Type No.
150 = 1 1/2"	R 1 1/2"	40	93	54	67	740	SKK 150 A
200 = 2"	R 2"	50	102	63.8	79	944	SKK 200 A



Dust Caps

Type-Size	DN	b	Ident.-Size	h	Weight/pc. g	Type No.
100 = 1"	25	70	37.3	49	390	SKK 100 DC
150 = 1 1/2"	40	93	54	59	480	SKK 150 DC
200 = 2"	50	102	63.8	63	680	SKK 200 DC
250 = 2 1/2"	65	110	76.5	67	920	SKK 250 DC**



Plugs with female thread and thread sealing ring

Type-Size	Thread	DN	Ident.-Size	h	Weight/pc. g	Type No.
100 = 1"	G 1"	25	36.7	52	222	100-A-SS
150 = 1 1/2"	G 1 1/2"	40	53.4	62	493	150-A-SS
200 = 2"	G 2"	50	63	71	644	200-A-SS
250 = 2 1/2"	G 2 1/2"	65	75.8	75	945	250-A-SS**



Plugs with male thread

Type-Size	Thread	DN	Ident.-Size	h	Weight/pc. g	Type No.
100 = 1"	R 1	25	36.7	72	258	100-F-SS
150 = 1 1/2"	R 1 1/2"	40	53.4	82	565	150-F-SS
200 = 2"	R 2"	50	63	90	650	200-F-SS
250 = 2 1/2"	R 2 1/2"	65	75.8	105	1317	250-F-SS**



Dust Plugs

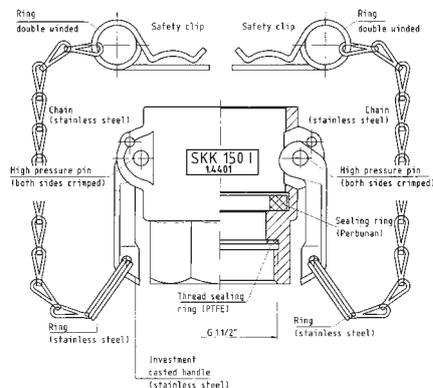
Type-Size	DN	Ident.-Size	h	Weight/pc. g	Type No.
100 = 1"	25	36.7	46	139	100-DP-SS
150 = 1 1/2"	40	53.4	57	335	150-DP-SS
200 = 2"	50	63	60	441	200-DP-SS
250 = 2 1/2"	65	75.8	66	657	250-DP-SS**



Handle with chain, ring, safety clip and High-Pressure pin

Type-Size	Weight/pc. g	Type No.
1 1/2" + 2" + 2 1/2"	89	SKH 1





Drain Adaptor

with 3 Automatic-Run-Out-Valves 3/4" and 2 fixing spears



Drain-Adaptor with 3 Automatic-Run-Out-Valves 3/4"

Type-Size	Connection	DN	Ident-Size	Weight/pc. g	Type No.
150 = 1 1/2"	Coupling / Plug	40	54 / 53.4	2870	SKK 150 EA
200 = 2"	Coupling / Plug	50	63.8 / 63	4039	SKK 200 EA
Automatic-Run-Out-Valves also available separately (7 bores)				160	EWV 34
Automatic-Run-Out-Valves also available separately (1 bore)				170	EWV 341

Opening pressure of valves approx. 1 bar!

Drains the lines automatically when installation is switched off and pressure drops to avoid frost damages.

Simply assemble the adaptor at the lowest point between snow pump and hydrant and fix it with two spears (60 cm long) in suitable position.

SNOW MASTER

High-Pressure Screwings

of zinc-plated steel

- Thread Stems for long-term steady installations of pipe and hose lines, extremely robust execution
- Female thread stems with swivelling nut, flat sealing with thread sealing ring
- Appropriate safety clamps and crimping ferrules (☺ catalogue page 326)



Max. Working Pressure	Material	Medium	Threads	Temperature	☺
PN 60 bar	steel (zinc-plated)	liquids	ISO 228 / DIN 2999	-40°C – +95°C	1

Male thread screwings for flat hoses or rubber hoses

Thread	Hose i.D.	∅SW	DN	Weight/pc. g	Type No.
R 1"	25-28 mm	36	20	220	SGA 100-T
R 1 1/2 "	38-40 mm	50	40	372	SGA 150-T
R 2 "	38-40 mm	60	40	210	SGA 200/150-T
R 2 "	50-54 mm	60	50	620	SGA 200-T

Female thread screwings for flat hoses or rubber hoses (with screwing nut)

Thread	Hose i.D.	∅SW	DN	Weight/pc. g	Type No.
G 1"	25-28 mm	41	20	250	SGI 100-T
G 1 1/2 "	38-40 mm	55	40	390	SGI 150-T
G 2 "	50-54 mm	70	50	640	SGI 200-T

Attention: For 1 1/2" and 2" hose connection each 9 different stem profiles types and sizes are available as standard version! For each order the exact hose type and size and preferred assembly method has to be notified to be able to choose the right hose stem version! For new stem profiles: minimum quantity is 50 sets.

Other sizes on request!





WaterProfi Quick Connect Couplings



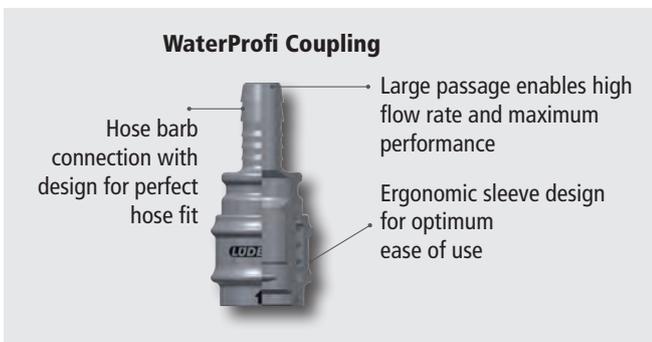
A superior connection system compatible with the standard plug profile

WaterProfi Quick Connect Couplings are completely made of stainless steel and are ideally used in applications with specific hygienic requirements. The One-hand operation simplifies the work and guarantees the optimum ease of use. WaterProfi products are absolutely tightly sealed. That is: leakages as often seen with pre-mounted compression fittings are now in the past.

Advantages:

- Simple to connect, high pressure spectrum, high sealing characteristic and durable
- Robust, secure and reliable
- Compact size
- Flat sleeve contour for the prevention of dirt accumulation
- High flow rates due to the largest possible passage
- Compatible with the standard plug profile
- Available with shut-off and free-flow passage

Top quality for carefree working



Connected in seconds

WaterProfi products are easily to connect without big effort, due to the one-hand operation function design. To connect push the plug into the coupler up to the end, the locking sleeve locks automatically and holds the plug firmly.

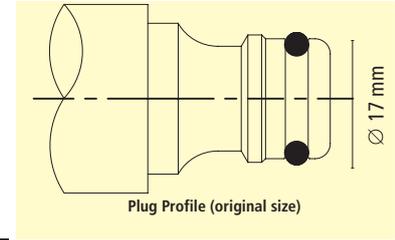


To disconnect, grasp the plug firmly with one-hand. With the other one push the locking sleeve backwards and pull the plug off the coupling. After disconnecting, the locking sleeve slips automatically back to starting position. This system allows not only a fast work process, but also a reduction to a minimum of potential injuries in term of finger trapping etc.

- High quality one-hand operation Quick Connect Couplings of stainless steel
- Easy to connect, high pressure spectrum, superior sealing characteristics and durable, robust, safe and reliable
- Flat sleeve contour for the prevention of dirt accumulation
- High water flow due to optimized passage
- Interchangeable with standard plug profile types
- Available with shut-off valves or non-valved
- **Quick Connect Couplings for applications with specific hygienic requirements or for carrying various different aggressive media, i.e. pharmacy, chemical industry, medicine technique, food industry, clean room**

Materials:

- Sleeve, connection, valve body, valve, pins: stainless steel 1.4305
- Springs: Stainless steel 1.4310 • O-rings: EPDM



Max. Working Pressure	Temperature	Material	Mat. Seal	Medium	Thread	One-hand	
PN 16 bar	+95°C	Stainless Steel 1.4305	EPDM	water	ISO 228	yes	5

WaterProfi-Couplings with hose stem and free passage

Hose i.D.	DN	b	l	Weight/pc.g	Type No.w/o valve	Type No.with valve
1/2" = 13 mm	9	34	75	163	WSE 13 T	WSE 13 TAB
5/8" = 16 mm	9	34	75	164	WSE 16 T	WSE 16 TAB
3/4" = 19 mm	9	34	75	171	WSE 19 T	WSE 19 TAB
1" = 25 mm	9	34	75	194	WSE 25 T	WSE 25 TAB

WaterProfi-Couplings with female thread and free passage

Thread	DN	b	l	Weight/pc.g	Type No.w/o valve	Type No.with valve
G 3/4"	9	34	56	170	WSE 34 I	WSE 34 IAB

WaterProfi-Screwing hose stems (for Combination with WaterProfi-Couplings with female thread)

Thread	Hose i.D.	DN	b	l	Weight/pc.g	Type No.
G 3/4" male	1/2" = 13 mm	10	26.5	41	35	WSE 13 GT
G 3/4" male	5/8" = 16 mm	13	26.5	41	39	WSE 16 GT
G 3/4" male	3/4" = 19 mm	15	26.5	41	50	WSE 19 GT
G 3/4" male	1" = 25 mm	19	26.5	41	62	WSE 25 GT

WaterProfi-Plugs with hose stem

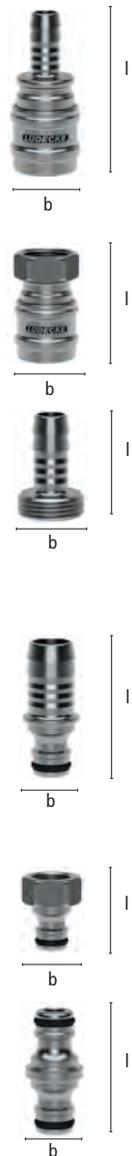
Hose i.D.	DN	b	l	Weight/pc.g	Type No.
1/2" = 13 mm	9	24	58	61	WSE 13 S
5/8" = 16 mm	9	24	58	65	WSE 16 S
3/4" = 19 mm	9	24	58	67	WSE 19 S
1" = 25 mm	9	27	58	83	WSE 25 S

WaterProfi-Plugs with female thread (valve adaptor) (With female thread sealing ring)

Thread	Hexagon	DN	b	l	Weight/pc.g	Type No.
G 1/2"	27	9	30	38	67	WSE 12 NI
G 3/4"	30	9	32	38	64	WSE 34 NI

WaterProfi-Plug-Adaptor

DN	b	l	Weight/pc.g	Type No.
9	24	52	66	WSEA





GEKA plus – Claw Couplings of chromium steel for applications with elevated hygienic requirements

The GEKA plus- Claw Couplings of chromium steel fit especially for applications in the chemical industry, food or beverage industry or pharmacy, for water, lye and aggressive mediums. The coupling contains a patented special rubber ring FKM with optimum elasticity.

Advantages

- Easy to connect, high pressure and vacuum capabilities, reduced "breakdown torque"
- Soft hose tail design - avoids hose damages, perfect fit on hose tail
- Ergonomically formed claws, securing knobs against accidental loosening

GEKA plus – Hose Claw Coupling

claw distance of 40 mm
easy connecting and disconnecting

elevated
hygienic
requirements



securing knobs prevent
accidental loosening of the
coupling halves

patented high-performance rubber ring of
FKM

safe and hose sparing hose
barb for perfect hose fit

Easy handling – Safe and firm hold



The concept of connecting is identical with the functioning of the WaterProfi Claw Couplings. Both couplings are connected at the front end side in order to connect the sealing surfaces. Afterwards, one coupling half has to be twisted against the other until end stop – the plug locks into place.

GEKA plus Claw Couplings

of chromium steel for applications with elevated hygienic requirements

- High quality couplings of of chromium steel 1.4571
- Easy to couple, high pressure and vacuum-spectrum, reduced "breakdown torque"
- Maximum bore at optimum wall thickness as well as soft hose tail design
- Ergonomic formed claws, optimum security against accidental opening
- Patented high performance rubber ring of FKM with perfect elasticity and resistance
- **Universal coupling for applications in chemical industry, food or drinking industry or pharmacy, for water or aggressive media**

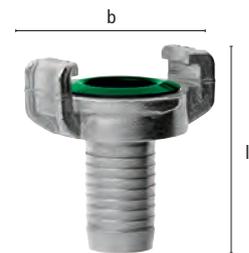


Max. Working Pressure	Temperature	Material	Mat. Seal	Medium	Threads	Claw Distance	⊞
PN 25 bar	-20 bis +160°C	stainless steel	FKM	water / chemicals	ISO 228	40 mm	5

Hose Claw Couplings GEKA plus

Hose i. D.	DN	b	l	Weight/pc. g	Type No.
1/2" = 13 mm	10	53.5	50	89	GSK 13 SS
3/4" = 19 mm	17	53.5	52.5	92	GSK 19 SS
1" = 25 mm	21.5	53.5	57.5	117	GSK 25 SS

For hose clips type SLE , HSE (⊞ catalogue page 336), type ZOS (⊞ catalogue page 337) or crimping ferrules type LPH (⊞ catalogue page 347)



Female Claw Couplings GEKA plus with thread sealing ring

Thread	DN	b	l	Weight/pc. g	Type No.
G 1/2"	14	53.5	30.5	82	GKI 12 SS
G 3/4"	19	53.5	31.5	88	GKI 34 SS
G 1"	23	53.5	32.5	100	GKI 10 SS



Male Claw Couplings GEKA plus

Thread	DN	b	l	Weight/pc. g	Type No.
G 1/2"	15	53.5	30.5	80	GKA 12 SS
G 3/4"	20	53.5	33	91	GKA 34 SS
G 1"	23	53.5	31	86	GKA 10 SS

Male thread sealing with sealing ring type HPD (⊞ catalogue page 25)



Blank End Claw Coupling GEKA plus

Execution	b	h	Weight/pc. g	Type No.
Without Chain	53.5	36.5	85	GKO SS



Original Rubber Ring for GEKA plus-Couplings of stainless steel

Material	colour	Shore A	⊘i	⊘a	h	Weight/pc. g	⊞	Type No.
FKM	green	65°	20.5	33.5	10.8	5	10	GKVR-N



ALBA KRAPP Hose Reels, Wall Hose Reels and Wall Hose Holders

Long range water supply, secured and flexible stowed

ALBA KRAPP products offer high quality and lifelong guarantee. They are completely made of steel and UV resistant. Through environmentally friendly materials they may be classified as completely recyclable and thus, they make a valuable contribution to a sustainable production. The wide range of products ideally meets the needs of the private and professional field



Quality Surface



High Stability



Perfect Balance



Easy Assembly



Quality Wheels



Lifetime-Quality



Ecology



High Waterflow



Wide Range of Wall Hose Reels



Water fittings

Hose Reel ALBA STAR INOX Series II

For the food industry: ideal for cheese dairies, creameries, butcheries, bakeries, medical laboratories, swimming pools etc.



Material

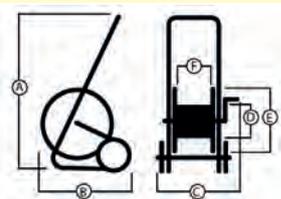
- Totally made of electropolished stainless steel

Technical data/description

- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 3/4", durable, resistant
- Wide, solid rubber wheels (abrasion-proof)
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Comfortable level of transportation: long and handy handle, easy to drive
- Highest tilt firmness
- Additional slip resistant stoppers on trolley frame
- Without hose, pre-assembled in carton box

Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm) = 120 m, 5/8" (16 mm) = 100 m, 3/4" (19 mm) = 80 m, 1" (25 mm) = 50 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 – 19 – 25 mm	14 kg	ALBA STAR IN2



- Ⓐ Total height: 1030 mm
- Ⓑ Total length: 609.5 mm
- Ⓒ Total width: 610 mm
- Ⓓ Reel inside: 228 mm
- Ⓔ Reel wheel: 555 mm
- Ⓕ Reel width: 296 mm



Wall Hose Reel ALBA STATUS INOX Series III

For the food industry: ideal for cheese dairies, creameries, butcheries, bakeries, medical laboratories, swimming pools etc.

Material

- Robust whole metal construction

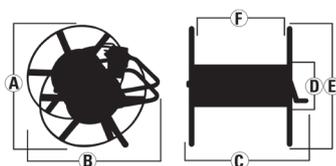
Technical data/description

- Reel drum construction to avoid damage on hose – no kinking
- High water flow capacity 3/4", durable, resistant
- Adjustable for optimized positioning
- Wall holder with continuous setting
- Easy wall assembly with separate wall socket, Hose Reel can simply be remounted sinistral or dexter
- Double bearing: hose reel and crank handle in the steel bearing
- Swivelling connector with ball bearing: simple reeling and unrolling
- Without hose, pre-assembled in carton box



Water Connection	Max. Working Pressure	Max. Hose Length	
3/4"	25 bar	1/2" (13 mm)) 70 m, 5/8" (16 mm) = 60 m, 3/4" (19 mm) = 40 m	1

Connection	Hose i.D.	Weight/pc. kg	Type No.
3/4" male	13 – 16 – 19 mm	11.15 kg	ALBA STATUS IN3



- Ⓐ Total height: 458 mm
- Ⓑ Total length: 554.5 mm
- Ⓒ Total width: 556 mm
- Ⓓ Reel inside: 228 mm
- Ⓔ Reel wheel: 458 mm
- Ⓕ Reel width: 243 mm

Wall Hose Holder ALBA MIDI INOX

For the food industry

Material

- totally made of electropolished stainless steel

Technical data/description

- Statically solid
- Light construction
- Hose conserving, no hose buckling
- Hose capacity, at mounting level 1.5 m: 1/2" = 150 m, 5/8" = 120 m, 3/4" = 70 m, 1" = 50 m of hose



Max. Hose Length		
Mounting Level 1.5 m, 1/2" = 150 m, 5/8" = 120 m, 3/4" = 70 m, 1" = 50 m		1

Hose i.D.	H	W	D	Weight/pc. kg	Type No.
13 - 16 - 19 - 25 mm	130 mm	220 mm	170 mm	0.9 kg	ALBA MIDI INOX

Hose Clamps

Stainless Steel

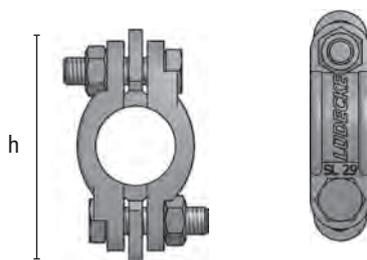
- Robust clamps of stainless steel 1.4401
- Easy and secure, for various fittings and applications

Max. Working Pressure	Material	Material Screws	Norm
PN 16 / 25 bar	stainless steel 1.4401	1.4401	☺ below

Hose Clamps DIN 20039 A, two parts with loose spaces, Material Stainless Steel 1.4401

Size

For hose i.D.	Screws	Hose o.D./Range	b	h	PN	Weight/pc. g		Type No.
1/2" = 13 mm	M 8 x 30	18 – 26 mm	18	63	16	140	5	SLE 13
3/4" = 19 mm	M 8 x 30	26 – 33 mm	18	71	16	160	5	SLE 19
1" = 25 mm	M 10 x 35	32 – 40 mm	18	81	16	210	5	SLE 25



High-Performance Hose Clips

DIN 3017 of Stainless Steel W5

- Hose clips of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Thinner screw body with new position. therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes. Size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for different fluids



Material	Norm	Medium	Hexagon
W 5	DIN 3017	aggressive	SW 7*

High-Performance Hose Clips. band and lock stainless steel W 5

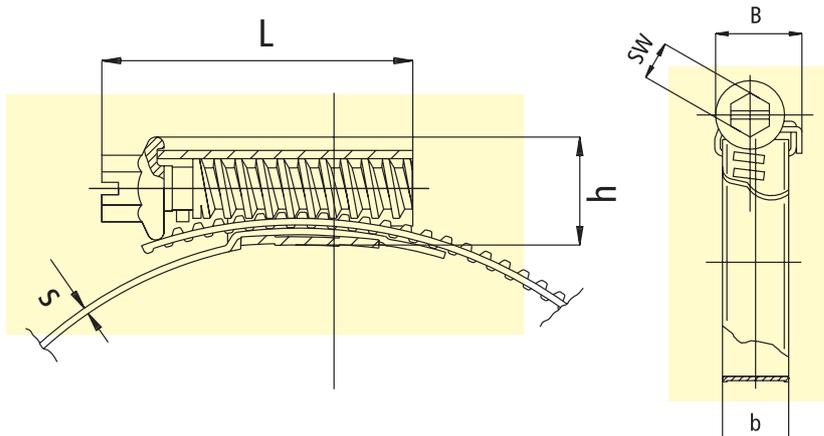
torque

Range mm	Band-width inch	Band-thickness		B	h	L	Weight/pc. g	Type No.
		b	s					
8–12	5/18"–1/2"	8	1.5	10.5	9.5	17	6	100 HSE 12
8–16	5/18"–5/8"	9	2 + 0.5	14	14.5	21	11	100 HSE 16
12–20	1/2"–3/4"	9	2 + 0.5	14	14.5	24	13	100 HSE 20
16–25	5/8"–1"	9	3 + 0.5	14	14.5	24	14	100 HSE 25
20–32	3/4"–1 1/4"	9	3 + 0.5	14	14.5	24	15	100 HSE 32
25–40	1"–1 5/8"	9	3 + 0.5	14	14.5	26	18	50 HSE 40
32–50	1 1/4"–2"	9	3 + 0.5	14	14.5	26	18	50 HSE 50
40–60	1 5/8"–2 3/8"	9	3 + 0.5	14	14.5	26	20	25 HSE 60
50–70	2"–2 3/4"	9	3 + 0.5	14	14.5	26	21	25 HSE 70
60–80	2 3/8"–3 1/8"	9	3 + 0.5	14	14.5	26	23	25 HSE 80
70–90	2 3/4"–3 1/2"	9	3 + 0.5	14	14.5	26	25	25 HSE 90
80–100	3 1/8"–4"	9	3 + 0.5	14	14.5	26	28	10 HSE 100

*HSE 12 Hexagon 6 mm

Special Screw Driver hexagon. SW 7. with plastic handle

Type	Material	Weight/pc. g	Type No.
Rigid	steel chromated	89	1 SR STARR
Flexible	steel chromated	134	1 SR FLEX.



LÜDECKE

BALL VALVES



Ball Valves

Sturdy **LUDECKE** design, brass nickel-plated

- Ball valves for air, water and many other fluids of high quality and extraordinary standard.
- Maintenance-free operation, long-living, sturdy and reliable, easy switching with full free passage, tested of tightness.

- **For Industry, Construction and civil installations.**

body and sockets: brass, sandblasted and nickel-plated
 spindle and nut: brass
 ball: brass chromed
 ball seals: PTFE
 spindle seals: FKM-O-Ring
 handle: steel resp. aluminium red painted

Max. Working Pressure	Temperature	Material	Sealing Mat.	Medium	Threads	
PN 35 bar	-15°C – +100°C	brass MS 58	PTFE / FKM	air, water ...	DIN 2999	1

Ball Valves with female thread DIN 2999

Thread	DN	l	h	Length Handle	Hexagon	Weight/pc. g	Type No.
R 1/4"	8	50	78	95	25	296	KM 14 T
R 3/8"	10	60	78	95	25	302	KM 38 T
R 1/2"	15	75	82	95	26	390	KM 12 T
R 3/4"	20	80	90	104	32	682	KM 34 T
R 1"	25	90	97	104	39	876	KM 10 T
R 2"	50	140	170	178	70	3700	KM 20 T



Double Ball Valves and Airhammer Ball Valves

Sturdy **LUDECKE** design, brass

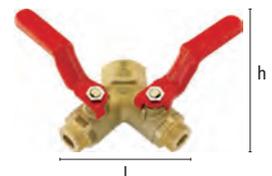
- High quality, maintenance free valves of brass, extremely robust.
- With lever stop and exhaust, on request also without exhaust.
- **For compressed air in construction, on compressors and airhammers.**
- **For industrial applications.**

body and threaded ends: brass
 ball seals: PTFE glass fiber reinforced
 spindle seals: Perbunan
 ball: brass nickel-plated, DN 13
 handle: steel, red painted

Max. Working Pressure	Temperature	Material	Mat. Seals	Medium	Threads	
PN 35 bar	-15°C – +100°C	brass MS 58	PTFE / Perbunan	compressed air	ISO 228	1

Double Ball Valves

Adjunction	Inlet	DN	l	h	Hexagon	Weight/pc. g	Type No.
2 x G 3/4" male	G 1" female	13	115	105	41	1039	DKH 10
2 x KIGO 34	G 1" female	13	170	130	41	1350	DKH 10 G
2 x KIM 34	G 1" female	13	170	130	41	1435	DKH 10 M
2 x KIG 34-DR	G 1" female	13	215	150	41	1704	DKH 10 DR



Airhammer Ball Valves, inlet thread with lock nut \ominus 32, outlet with inside cone 1:4

Adjunction	Inlet	DN	l	h	Hexagon	Weight/pc. g	Type No.
G 3/4" male	G 3/4" male	13	81	82	32	491	BKH 34
KIGO 34	G 3/4" male	13	120	82	32	640	BKH 34 G
KIM 34	G 3/4" male	13	120	82	32	684	BKH 34 M
KIG 34-DR	G 3/4" male	13	135	82	32	823	BKH 34 DR



- On request we produce valves according to your drawings or samples with special adjunctions and gaskets.
- Also available with T-Handle up to DN 25 i.e. KM 34 TBG
- Please order ball valves used in inspected plants separately, i.e. KM 12 T-AD

Ball Valves

Light design, brass nickel-plated

- Ball Valves with full free passage, reduced dimensions.
- For Construction, Industry, Agriculture and civil installations.

body and sockets:	brass, nickel-plated
spindle and nut:	brass
ball:	brass chromed
ball seals:	PTFE
spindle seals:	FKM-O-Ring
handle:	Steel coated with PVC red
adhesive:	Loctite AVX 586

Max. Working Pressure	Temperature	Material	Sealing Mat.	Medium	Threads	Port Capacity	Pressure Drop	
⊕ Diagram	-15°C – +120°C	brass MS 58	PTFE / FKM	air, water ...	ISO 228	⊕ Diagram	⊕ Diagram	1

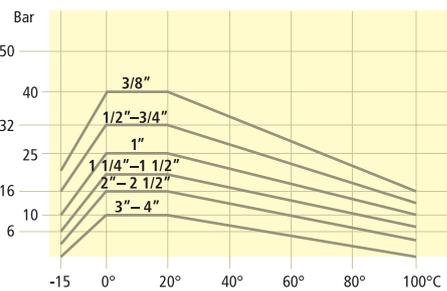
Ball Valves with female thread ISO 228

Thread	DN	l	h	Length handle	∅ Body	Weight/pc. g	Type No.
G 1/4"	8	37	41	85	23	114	K 14 K
G 3/8"	10	42	37	85	24	132	K 38 K
G 1/2"	15	50	40	85	30	180	K 12 K
G 3/4"	20	58	48	105	38	306	K 34 K
G 1"	25	68	52	105	46	470	K 10 K
G 1 1/4"	32	80	63	130	58	813	K 54 K
G 1 1/2"	40	93	69	130	70	1262	K 15 K
G 2"	50	110	83	165	86	2100	K 20 K
G 2 1/2"	65	133	116	260	111	3799	K 25 K
G 3"	80	156	127	260	135	5625	K 30 K



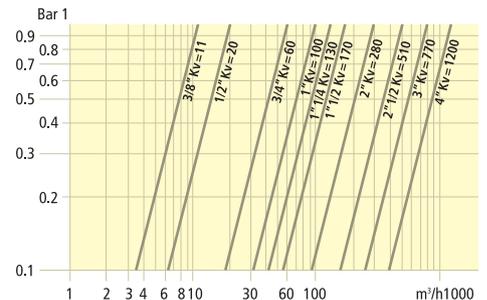
Pressure and temperature diagram

For each size of valve at each pressure level corresponds a specific admissible temperature level and viceversa.



Port capacity and pressure drop diagram

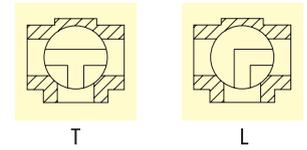
The Kv is the index port capacity, expressed in cubic meters per hour, causing a pressure drop of 1 bar with water at 15°C.



Three Way Ball Valves

- Robust ball valves of brass, nickel-plated
- For junctions or alternatively switching of air or water lines in industry, construction or civil applications

body: brass, nickel-plated
 handle: aluminium
 ball: brass, hard chromed
 ball seals: PTFE
 spindle seals: PFTE

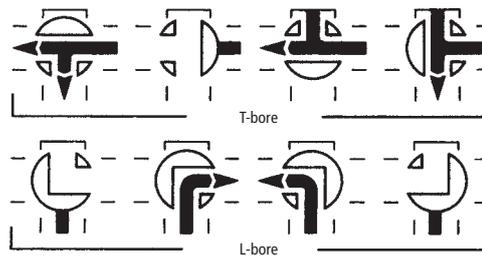
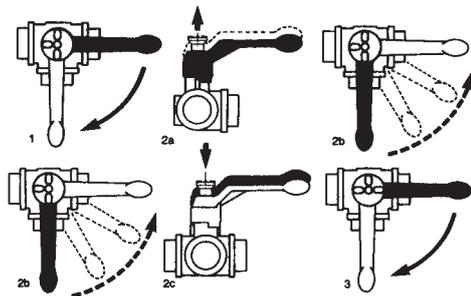


Available with T or L-bore, please state when ordering

Max. Working Pressure	Temperature	Material	Mat. Seals	Medium	Threads	⊗
⊙ below	-15°C – +100°C	brass nickel-plated	PTFE	air / water	ISO 228	1

Three-way ball valves with 3 x female thread

Thread	DN	PN	l	h	Length		Weight/		Weight/	
					handle	⊙Hexagon	pc. g	Type No./T	pc. g	Type No./L
G 1/4"	10	40	71	96	130	27	713	DWK 14 T	679	DWK 14 L
G 3/8"	13	40	71	96	130	27	662	DWK 38 T	643	DWK 38 L
G 1/2"	13	40	80	96	130	27	653	DWK 12 T	637	DWK 12 L
G 3/4"	18	40	96	113	160	33	1090	DWK 34 T	1100	DWK 34 L
G 1"	23	25	113	122	160	40	1695	DWK 10 T	1710	DWK 10 L
G 1 1/4"	29	16	130	144	195	50	2680	DWK 54 T	2660	DWK 54 L
G 1 1/2"	35	16	147	154	195	57	3660	DWK 15 T	3710	DWK 15 L
G 2"	44	16	169	176	235	70	5820	DWK 20 T	5880	DWK 20 L



Flow direction diagram of T- and L-bore.

Position 1 and 3:
Switching with ball rotation.

Positions 2a – 2b – 2c:
Switching without ball rotation.

Hexagon Ball Valves

- Miniature ball valves of brass, nickel-plated
- For pneumatic or water installations in industry, construction or civil applications

body: brass, nickel-plated
 ball: brass, chromed
 handle: plastic
 seals: PTFE

Max. Working Pressure	Temperature	Material	Mat. Seals	Medium	Threads	⊗
PN 10 bar	-10°C – +90°C	brass nickel-plated	PTFE	air / water	ISO 228	10

Hexagon Ball Valves with 2 x female thread

Thread	DN	l	h	⊙Hexagon	Weight/pc. g	Type No.
G 1/4"	5.5	36	38	19	71	KM 14 TS
G 3/8"	8	41	38	21	86	KM 38 TS
G 1/2"	10	48	42	25	137	KM 12 TS



Hexagon Ball Valves with female/male thread

Thread	DN	l	h	⊙Hexagon	Weight/pc. g	Type No.
G 1/4"	5.5	36	38	19	61	KMZ 14 TS
G 3/8"	8	41	38	21	83	KMZ 38 TS
G 1/2"	10	48	42	25	130	KMZ 12 TS



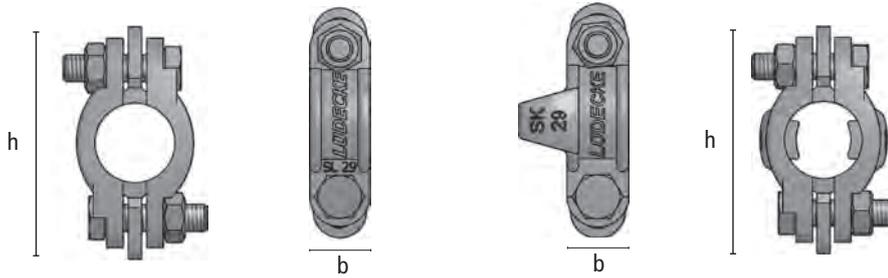
HOSE CLAMPS



Hose Clamps

Malleable Iron and Stainless Steel

- Robust clamps of malleable iron, zinc plated and yellow passivated (free of chrome VI) resp. stainless steel 1.4401
- Easy and secure, for various fittings and applications



Max. Working Pressure	Material	Material Screws	Norm
PN 16 / 25 bar	malleable iron / stainless steel	DIN 933-8.8 VG / 1.4401	☉ below

Hose Clamps, two parts with overlapping cast-on-spacers

For hose i.D.	Hose o.D./Range	b	h	PN	Weight/pc. g	☉	Type No.
1/2" = 13 mm	17–22 mm	17	60	16	95	10	S 22
3/4" = 19 mm	27–32 mm	17	70.5	16	105	10	S 34

Hose Clamps DIN 20039 A, two parts with loose spacers. Material Stainless Steel 1.4401

Size		For hose i.D.	Screws	Hose o.D./Range	b	h	PN	Weight/pc. g	☉	Type No.
1/2" = 13 mm	M 8 x 30	18–26 mm	18	63	16	140	5	SLE 13		
3/4" = 19 mm	M 8 x 30	26–33 mm	18	71	16	160	5	SLE 19		
1" = 25 mm	M 10 x 35	32–40 mm	18	81	16	210	5	SLE 25		

Hose Clamps DIN 20039 A*, two parts with loose spacers

For hose i.D.	Hose o.D./Range	b	h	PN	Weight/pc. g	☉	Type No.
1/2" = 13 mm	22–29	18	63	16	128	10	SL 29*
3/4" = 19 mm	28–34	18	71	16	134	10	SL 34*
1" = 25 mm	32–40	18	81	16	188	10	SL 40*
1 1/4" = 32 mm	39–49	20	91	16	244	10	SL 49*
1 1/2" = 38 mm	48–60	24	108	16	297	5	SL 60*
2" = 50 mm	56–72	25	116	16	340	5	SL 72
2" = 50 mm	60–76	25	127	16	405	5	SL 76*
2 1/2" = 63 mm	77–94	30	146	16	556	5	SL 94*
3" = 75 mm	89–101	25	139	16	665	1	SL 400
3" = 75 mm	94–115	35	176	16	739	1	SL 115
3 1/2" = 89 mm	113–127	27	170	16	890	1	SL 525
3 1/2" = 89 mm	115–145	38	198	16	1046	1	SL 145
4" = 100 mm	127–140	28	178	16	972	1	SL 550
4" = 100 mm	135–155	27	194	16	984	1	SL 600
5" = 125 mm	155–175	30	217	16	1130	1	SL 675
6" = 150 mm	175–195	30	244	16	1445	1	SL 769
7" = 175 mm	210–225	35	280	16	2163	1	SL 875
8" = 200 mm	227–250	35	312	16	2610	1	SL 988

Hose Clamps DIN 20039 B, two parts with loose spacers and safety claws

For hose i.D.	Hose o.D./Range	b	h	PN	Weight/pc. g	☉	Type No.
1/2" = 13 mm	22–29	18	63	25	142	10	SK 29
19 x 2		18	63	25	140	10	SK 29 FL*
3/4" = 19 mm	28–32	21	77	25	220	10	SK 34
25 x 2		21	77	25	220	10	SK 34 FL*
1" = 25 mm	35–42	22	90	25	272	10	SK 39
1 7/64" = 28 mm	42–45	24	98	25	340	5	SK 44
1 3/8" = 35 mm	45–53	25	108	25	380	5	SK 51
1 5/8" = 42 mm	55–60	26	119	25	416	1	SK 60
2" = 50 mm	60–73	30	132	25	637	1	SK 73
3" = 75 mm	86–102	28	160	25	860	1	SK 75

*for Flat Hose



US-Hose Clamps

- Robust clamps of malleable iron. zinc plated and yellow passivated (free of chrome VI)
- Easy and secure. for various fittings and applications



Max. Working Pressure	Material screws	Material
PN 25 bar	DIN 933-8.8 VG	malleable iron

US-Hose Clamps. two parts with safety claws

For hose i.D	Screws	Hose o.D./Range	b	h	PN	Weight/pc. g	⊞	Type No.
1/2" = 13 mm	2	21–27	55	45	25	171	10	LB-4
3/4" = 19 mm	2	30–35	65	43	25	176	10	SKA 34
3/4" = 19 mm	2	30–33	70	64	25	405	1	LBU-9
3/4" = 19 mm	2	33–38	71	70	25	413	1	LB-9
3/4" = 19 mm	2	38–43	78	68	25	433	1	LB-10
1" = 25 mm	2	35–45	85	70	25	500	1	SKA 10
2" = 50 mm	4	63–70	120	100	25	1503	1	LBU-29

Two-Ear Hose Clips

- Profile according to DIN 2393 C
- Clips 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 unremovable
- No danger of hurt during assembly or work
- Suitable for various hoses and fittings for different fluids

Material	Medium	⊞
special reliable steel	various	100

Two-Ear-Hose Clips



Hose o.D./Range	band-width	Weight/pc. g	Type No.
5–7 mm	5.5 mm	1	ZOS 5-7
7–9 mm	6 mm	2	ZOS 7-9
9–11 mm	6 mm	2	ZOS 9-11
11–13 mm	6 mm	3	ZOS 11-13
13–15 mm	7 mm	4	ZOS 13-15
14–17 mm	7.5 mm	4	ZOS 14-17
15–18 mm	8 mm	5	ZOS 15-18
17–20 mm	8 mm	5	ZOS 17-20
19–21 mm	7 mm	5	ZOS 19-21
20–23 mm	9 mm	8	ZOS 20-23
22–25 mm	9 mm	9	ZOS 22-25
23–27 mm	9 mm	9	ZOS 23-27
25–28 mm	9 mm	10	ZOS 25-28
27–31 mm	9 mm	12	ZOS 27-31
31–34 mm	9 mm	13	ZOS 31-34
34–37 mm	9 mm	16	ZOS 34-37
37–40 mm	9 mm	17	ZOS 37-40
40–43 mm	9 mm	18	ZOS 40-43

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High-Performance Hose Clips

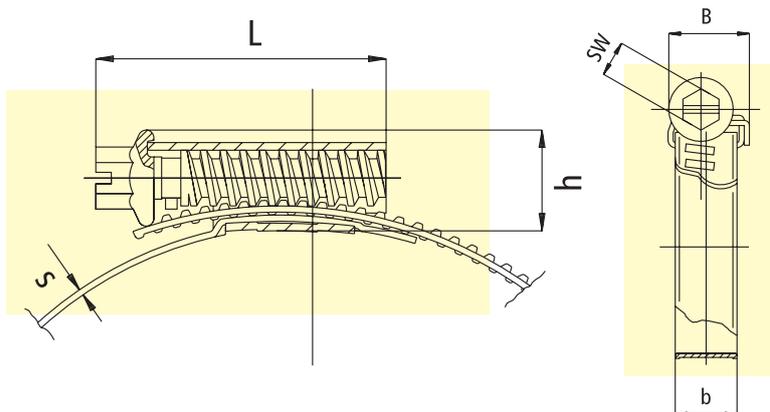
DIN 3017 of Steel W1

- Hose clips of steel W1. chrome-VI-free zinc plated and passivated
- Optimum sealing through high band tension – maximum strip safety
- Hose-protective through rounded edges and smooth band inside
- Thinner screw body with new position. therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with cross-slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes. sizes 100–180 in plastic bags. from size 190 on loose
- For safe, fast and removable use on various hoses and fittings for different fluids

Material	Norm	Medium	Hexagon
W 1	DIN 3017	various	SW 7

High-Performance Hose Clips. band and lock steel W 1 zinc plated

Range mm	inch	torque		B	h	L	Weight/pc. g	Type No.		
		Band-width b	Band-thickness s							
8-12	5/18"-1/2"	9	2 + 0.5	0.7	14	11.5	20.5	12	100	HS 12
10-16	5/18"-5/8"	9	2 + 0.5	0.8	14	11.5	20.5	13	100	HS 16
12-22	1/2"-3/4"	9	3 + 0.5	0.8	14	11.5	24	16	100	HS 20
16-27	5/8"-1"	9	5 + 0.5	0.8	16	13	31	17	100	HS 25
20-32	3/4"-1 1/4"	12	5 + 0.5	0.8	16	13	31	27	50	HS 32
25-40	1"-1 5/8"	12	5 + 0.5	1.0	16	13	31	32	50	HS 40
30-45	1 3/8"-1 3/4"	12	5 + 0.5	1.0	16	13	31	33	50	HS 45
35-50	1 1/4"-2"	12	5 + 0.5	1.0	16	13	31	35	50	HS 50
40-60	1 5/8"-2 3/8"	12	5 + 0.5	1.0	16	13	31	39	25	HS 60
50-70	2"-2 3/4"	12	5 + 0.5	1.0	16	13	31	43	25	HS 70
60-80	2 3/8"-3 1/8"	12	5 + 0.5	1.0	16	13	31	45	25	HS 80
70-90	2 3/4"-3 1/2"	12	5 + 0.5	1.0	16	13	37	52	25	HS 90
80-100	3 1/8"-4"	12	5 + 0.5	1.0	16	13	37	53	10	HS 100
90-110	3 1/2"-4 3/8"	12	5 + 0.5	1.0	16	13	37	53	10	HS 110
100-120	4"-4 3/4"	12	5 + 0.5	1.0	16	13	37	58	10	HS 120
110-130	4 3/8"-5 1/8"	12	5 + 0.5	1.0	16	13	37	60	10	HS 130
120-140	4 3/4"-5 1/2"	12	5 + 0.5	1.0	16	13	37	63	10	HS 140
130-150	5 1/8"-5 7/8"	12	5 + 0.5	1.0	16	13	37	69	5	HS 150
140-160	5 1/2"-6 1/4"	12	5 + 0.5	1.0	16	13	37	71	5	HS 160
150-170	5 7/8"-6 5/8"	12	5 + 0.5	1.0	16	13	37	74	5	HS 170
160-180	6 1/4"-7"	12	5 + 0.5	1.0	16	13	37	77	5	HS 180
170-190	6 1/2"-7 1/2"	12	5 + 0.5	1.0	16	13	37	79	1	HS 190
180-200	7 1/8"-8"	12	5 + 0.5	1.0	16	13	37	81	1	HS 200
190-210	7 1/2"-8 1/4"	12	5 + 0.5	1.0	16	13	37	86	1	HS 210
200-220	8"-8 3/4"	12	5 + 0.5	1.0	16	13	37	92	1	HS 220
210-230	8 1/8"-9"	12	5 + 0.5	1.0	16	13	37	98	1	HS 230
220-240	8 3/4"-9 3/8"	12	5 + 0.5	1.0	16	13	37	101	1	HS 240
230-250	9"-9 3/4"	12	5 + 0.5	1.0	16	13	37	105	1	HS 250
240-260	9 3/8"-10 1/4"	12	5 + 0.5	1.0	16	13	37	108	1	HS 260
250-270	9 3/4"-10 1/2"	12	5 + 0.5	1.0	16	13	37	112	1	HS 270
260-280	10 1/4"-11"	12	5 + 0.5	1.0	16	13	37	116	1	HS 280



High-Performance Hose Clips

DIN 3017 of Stainless Steel W5

- Hose clips of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Thinner screw body with new position. therefore improved torque
- Material and clamp range stamped at inner band side
- Hexagon screw with slotted head
- Regularly spaced tension over complete hose diameter
- Up to size 90 in boxes. size 100 in plastic bags
- For safe, fast and removable use on various hoses and fittings for different fluids

Material	Norm	Medium	Hexagon
W 5	DIN 3017	aggressive	SW 7*

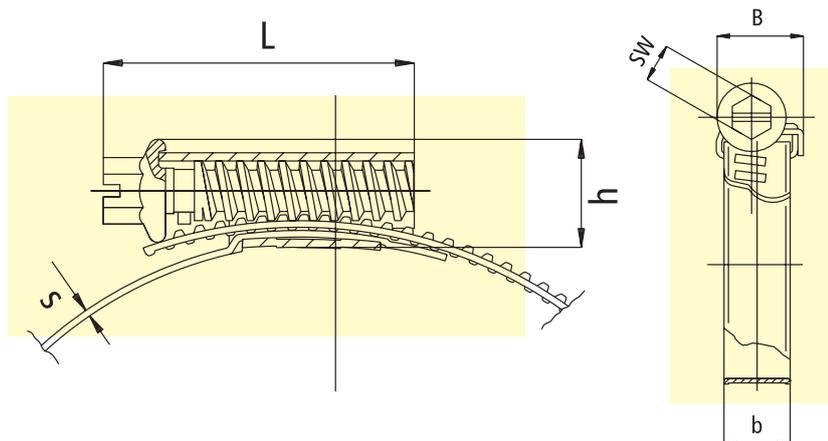
High-Performance Hose Clips. band and lock stainless steel W 5

Range	Band-width		Band-thickness		B	h	L	Weight/pc. g	Type No.	
	mm	inch	b	max Nm						s
8–12	5/18"–1/2"	8	1.5	0.7	10.5	9.5	17	6	100	HSE 12
8–16	5/18"–5/8"	9	2 + 0.5	0.8	14	14.5	21	11	100	HSE 16
12–20	1/2"–3/4"	9	2 + 0.5	0.8	14	14.5	24	13	100	HSE 20
16–25	5/8"–1"	9	3 + 0.5	0.8	14	14.5	24	14	100	HSE 25
20–32	3/4"–1 1/4"	9	3 + 0.5	0.8	14	14.5	24	15	100	HSE 32
25–40	1"–1 5/8"	9	3 + 0.5	0.8	14	14.5	26	18	50	HSE 40
32–50	1 1/4"–2"	9	3 + 0.5	0.8	14	14.5	26	18	50	HSE 50
40–60	1 5/8"–2 3/8"	9	3 + 0.5	1.0	14	14.5	26	20	25	HSE 60
50–70	2"–2 3/4"	9	3 + 0.5	1.0	14	14.5	26	21	25	HSE 70
60–80	2 3/8"–3 1/8"	9	3 + 0.5	1.0	14	14.5	26	23	25	HSE 80
70–90	2 3/4"–3 1/2"	9	3 + 0.5	1.0	14	14.5	26	25	25	HSE 90
80–100	3 1/8"–4"	9	3 + 0.5	1.0	14	14.5	26	28	10	HSE 100

*HSE 12 Hexagon 6 mm

Special Screw Driver hexagon. SW 7. with plastic handle

Type	Material	Weight/pc. g	Type No.
Rigid	steel chromated	89	SR STARR
Flexible	steel chromated	134	SR FLEX.



Ferrules for Low Pressure Hose Lines

- Ferrules of redhotted 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 danger of hurt, closed and unremovable connection
- For crimping of various hoses and fittings for different fluids

Max. Working Pressure		Material		Medium					
PN 16 bar		red hotted steel		various					
For hoses									
Ø Inside	DIN 20018	Water	PVC	Assembly-Machine	l	d	g	Weight/pc.	Type No.
12.5				SPR 333	17	8.5	3	100	LPH-12.5
13.5			6 x 3	SPR 333	20	9.3	5	100	LPH-13.5
14.5	6 x 3.5			SPR 333	17	10	5	100	LPH-14.5
16			8 x 3	SPR 333	17	11.5	5	100	LPH-16
18	9 x 3.5		10 x 3	SPR 333	20	13.5	7	100	LPH-18
19			12 x 3	SPR 333	20	13.9	9	100	LPH-19
19.5				SPR 333	26	14.5	10	100	LPH-19.5
21				SPR 333	26	14.5	12	100	LPH-21
22				SPR 333	32	17	16	100	LPH-22
23		13 x 3		SPR 333	32	17	18	100	LPH-23
25	13 x 5				32	17	19	100	LPH-25
28	15 x 6				32	20.5	22	100	LPH-28
30.5		19 x 4			33	24.3	24	100	LPH-30
33	19 x 6				35	24.8	40	100	LPH-33
38		25 x 4.5			35	28	47	25	LPH-38
41	25 x 7				40	30	64	25	LPH-41

For higher Working Pressure we recommend hydraulic crimping with turned steel-ferrules type PH (© catalogue page 219) 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 20 mm Hose i.D.
- **Clean:** Exact assembling of fitting, hose and ferrule through centric crimping of the ferrule
- **Cheap:** Fast assembling at reasonable costs
- **Safe:** Improved safety through perfect fit
- **Elegant:** Reduced danger of hurt
- With two crimping-jaw sets for crimping range from 3 to 20 mm and from 10 to 20 mm.
- **Flexible:** For mobile use

For hoses					
Hose i.D.	Hose o.D.	Suitable ferrule	e.g. for fitting	Weight/pc. kg	Type No.
3–20 mm	10–22 mm	LPH 12.5-23	Pneumatic-Connect., Quick-Couplings	12.2	SPR-333



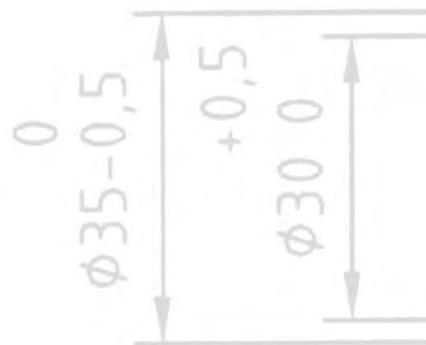
TECHNIC

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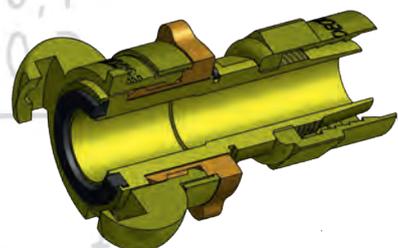
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Select the correct coupling for your application



We provide you with the best possible coupling systems matching your application. The **LUDECKE** product range offers a great variety of different nominal diameters, various valve technologies for best flow characteristics and shut-off technologies from non-valve versions up to dry break systems, which don't allow any kind of leakage of aggressive mediums even in severe applications. Sealing applications with dedicated rubber compounds are also included.

Our product selection displays endless options with the possibility to select out of 20.000 products. To find the correct solution, please contact our team of specialists in the Amberg headquarters – we're here to support!

With our flexible CIM (computer integrated manufacturing conception), we are capable of setting up special designs custom made for your special application – we are the right partner to solve your challenges!

We are constructing and manufacturing fittings and couplings for our customers all over the world from various materials for different applications. The required tests are conducted in house or at the technical university in Amberg (pressure, temperature, etc.) One of the key competences of **LUDECKE** is the construction and testing of couplers and hose assembly options for newly developed hoses for various mediums and applications. Over the years, we have developed and gained much experience and know-how through closely cooperating with leading industrial hose manufacturers. Within this time we have manifested a global knowledge to offer the best possible and adjusted solution for your requirements.

We also manufacture fittings according to your specifications (drawing or sample).

Criteria for product selection

MEDIUM



Medium

Compressed air
Fluids
Steam
Oil, vacuum
Chemical substances
Mortar / floor screed /
basting material



Pressure range

Working pressure
Pressure peeks



Temperature

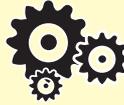
Material
Surrounding /
environment
In operation /
Off operation



Flow characteristics

Viscosity
Dynamic / static

APPLICATION



Industrial segment

Pneumatic
Temperature control / plastic injection
Construction / building
Water
High purity / hygiene intensive



Surrounding

Indoor / outdoor
Stationary / mobile operation
Dry / wet
Temperature



Space

Mounting position
Tube bending



Handling

One hand operation
Two hand operation
Safety requirement

ADDITIONAL INFORMATION



Assembly

Serial production
Installation on site
Industrial / automatic mounting
MRO – maintenance / repair
overhaul



Specifications

Customised
International normatives /
specifications
Verifications



More

Energy efficiency
Customised marking /
Branding
Additional safety features

Best solution: best product

- Highly reliable
- Extraordinary durability
- Sealing capabilities
- Best possible handling and mounting features
- Overall safety characteristics

For our products we use the following materials:

1. White malleable Iron according to DIN EN 1562 (EN-GJMW-400-5)

This iron carbon is getting its characteristic qualities through a special heat treatment and not, like other materials, through its chemical composition. Through this heat treatment all carbon is removed up to some mm depth from the surface. Thin walled parts get the structure of ferritic steels. This possibility to create complicated casted geometrical structures in combination with the high quality technical features of this iron (excellent for welding, forming and forging) makes white malleable iron to a flexible and exacting partner.

The toughness of white malleable iron avoids a breaking of the material through heavy strain. A hose coupling overdriven by a truck will never break, it only gets oval. Through high expansion limits white malleable iron is suitable to be used at high temperatures, but also up to -60°C , because its firmness qualities improve with declining temperature.

Moreover malleable iron is easy to machine, has an excellent resistance against environmental influences and can be hardened with thermochemical processes.

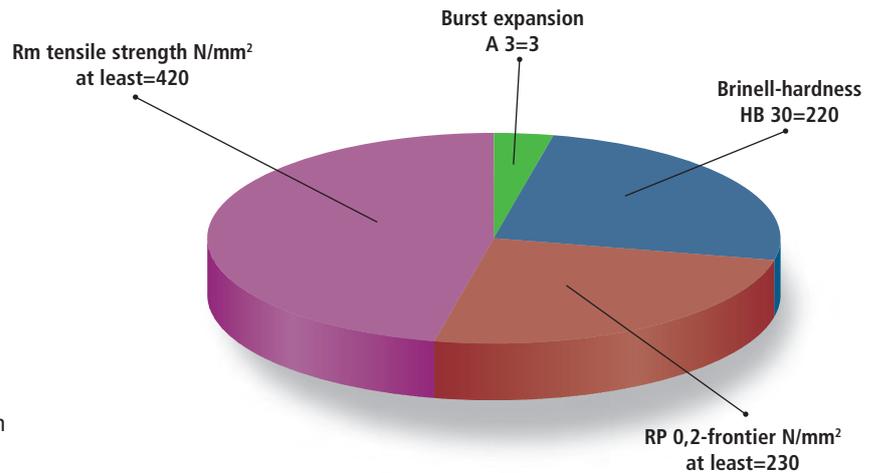
White malleable iron guarantees us a constantly high quality. As raw material for the production of fittings **LUDECKE** only uses castings made in German and European foundries.

2. Brass MS 58 /CuZn 39 Pb3), Material 2.0401

Brass MS 58 is the mainly used alloy for all machining production procedures. It guarantees high durability, can be galvanized excellent (nickel plating) and is as a result of its material characteristics extremely well suitable for all turned parts. For its production **LUDECKE** uses MS 58 in different profiles (Hexagon-, round-, pipe-profiles) or warm forged raw parts.

3. Free-cutting steel (11s Mn Pb 30), Material 1.0718 according to DIN EN 10087

Good machining quality is the requirement for an economical production of turned parts with high precision and excellent surface quality. The material 1.0718 fulfils these characteristics. The possibility to weld, harden and for surface treatments is also guaranteed.



Characteristics of malleable iron (EN GJMW-400-5)

4. Stainless Steel, Material 1.4401 (# 316) and 1.4305

Rust- and acid-resistance, excellent mechanical qualities and high durability at good machining qualities make this material the ideal partner for high quality fittings to be used under extreme conditions with aggressive fluids or for food and drinking water applications.

Chemical composition:

Carbon	< 0.08	Manganese	< 1.5
Silicon	< 1.5	Nickel	9 -12
Sulphur	< 0.04	Chrome	18 -21
Phosphorus	<=0.04	Molybdenum	2-3

5. Aluminium

The alloy Al Mg Si 1 F 31 can be hardened and is excellent resistant against corrosion. It can be polished, is resistant against chemical fluids and is well suitable for machining.

This alloy is used by **LUDECKE** for forged parts. As profile material the alloy Al Cu Mg Pb F38 is machined.

6. ECOBRASS®. (UNS C 69300) NEW!

ECOBASS® is a new innovative material that combines the machining advantages of brass with hardness and resistance characteristics of stainless steel. ECOBRASS® is extraordinarily corrosion-resistant, free of lead and toxic compounds (fulfils coming restrictions of the car industry) and keeps its shining colour long lasting. ECOBRASS® is certified for drinking water applications. It is only slightly more expensive than brass MS 58, exhibits however an important price advantage in regard to stainless steel. **LUDECKE** machines ECOBRASS® as special alloy on request.

Product selection

To select the perfect product for your application it is necessary to regard various indicators. Essential are the used mediums, temperature and pressure to select a product. These factors are the reference to choose the sealing compounds (most susceptible part) and the materials, as well as the required valve technology.

We offer all materials, compounds and valve options to cover your application with the matching product.

Material	Malleable iron	Brass	Machining steel
Specification	White acc DIN 1562 (EN-GJMW-5)	MS 58 (CU Zn 39 Pb 3), material 2.0401	(11 SMn Pb 30), material 1.0718 acc DIN EN 10087
Description	<ul style="list-style-type: none"> -Steel carbon material, heat treatment allows to keep the mechanical characteristics -Allows to manufacture complex forms with castings, die cast hardening by thermos treatment Best resilience characteristics : Material composition allows also usage in heavy duty applications, avoids brittle fracturing	<ul style="list-style-type: none"> -Most used alloying for machined manufacturing processes -High durability, best characteristics for nickel plating and shaped turning parts 	<ul style="list-style-type: none"> -Best possible characteristics for a most economical manufacturing, related with precision and surface finishing -Soldering and hardness features for long duration
Pressure resistance	Best	Best	Best
Temperature resistance	High: Over average yield strength limit allows operation in low and high temperature applications (up to -60°, strength increases with lower temperature)	Best	Best
Corrosion resistance	Good: Corrosion resistance versus Environment	Best	Good
Medium resistance	Good	Best	Good
Usability	Construction fittings	Coupling components Accessories	Connection fittings Thread stems



Environment

+



Medium

+



Temperature

=



Materials

Material

Stainless Steel

Aluminium

ECOBASS

Specification

Material Aisi316L and Aisi303

Al Mg Si 1 F 31

(UNS C 69300)

Description

Best mechanical characteristics for long durability with best machining features

Wrought alloy Al Mg Si 1 F 31 can be hardened up to a medium firmness
Polishable, chemical resistant

Polishable, chemical resistant
-New and innovative raw material i.e. combines processing feature of brass and hardness of stainless steel
-Contains no toxic additives nor lead (accomplish with automotive standards)
-No discolouring

Pressure resistance

Best

Best

Best

Temperature resistance

Best

Good

Best

Corrosion resistance

Best

Good

Best

Medium resistance

Best

Good

Best

Typical applications

-Processing
-Medical
-Offshore

-Lightweight construction
-Automotive

-Drinking water

Usability

Aggressive mediums

Pneumatic
-Sea water
-Salt containing air

-Drinking water

Sealing compounds

Sealing compounds and its characteristics

Material:	Buna N	EPDM	FKM	PTFE (Teflon)
Specification	Buna N	Ethylen-propylen-terpolymer	Fluor elastomer / FPM	Polytetrafluorethylen
Description	Resistance on mineral based oils and carbon hydrate containing gasolines	Resistant for water, water steam, alkali, mild acids and acid containing solvents, high resistance vs aging	For mineral oil and greasing use, aliphatic, aromatic and chloride containing carbon hydrate, gasoline, diesel, silicone oils and greases	High partical crystalline plastics, not melttable-liquid, only rubber like and soft. Best anti-friction properties, to be used in a wide-spread temperature range, outstanding chemical and environmental resistance
Pressure resistance	Best	Best	Best	Best
High temperature resistance	Good	Good	Best	Best
Low temp – resistance	Best	Best	Good	Best
Medium resistance	Good	Best	Best	Best
Typical applications	Hydraulics, Pneumatic	Glycol based breaking fluids, steam, hot water and heated air up to 150°	Hydraulics, Aviation, Automotive	Tank processing, chemical pumps, coating for repellent surfaces, bearing, seals and taping Bellow valves, piston rings Isolated electronic parts Bearing constructions Anti-adhesive coatings

Material:	Hypalon	TFEP	FFKM
Specification	Chlorosulfonated-Polyethylene (CSPE) Synthetic Rubber/CSM	Tetrafluoroethylene/Propylene	Perfluoroelastomer
Description	High performance resistance vs extreme environmental influences, as well as highly resistant vs chemicals. Furthermore resistant vs. oxidants, light, sun light and ozone.	Resistant against hot water, steam, acids and solvents, ammonia, bleaching, Sour (H ₂ S), gases and oils, as well as amine containing additives corrosion preventive liquids, motor and gear oils, such as break liquid and oxidants	Similar chemical resistance like PTFE compounds, as well as elastic features from FPM/FKM i.e. an extraordinary pressure and retaining character.
Pressure resistance	Best	Best	Best
High temperature resistance	Best	Best	Best
Low temp – resistance	Best	Good	Best
Medium resistance	Best	Best	Best
Typical applications	Cable coverage, acid resistant tubing, inner coating of tanks, seals, membranes,	Chemical plants, motors	Chemical plants, petro chemical industry, aviation, motors and fittings

Sealing Compounds

Table of Resistance

Medium	Brass		PTFE	
	Perbunan	FKM	Perbunan	FKM
Acetic Acid	3	3	1	3
Acetone	1	4	1	4
Acetylene	3	1	1	1
Acrylnitril	1	4	1	3
Ammonia	4	2	1	4
Air	1	1	1	1
Aviation-Gasoline	1	1	1	1
Beer	2	1	1	1
Benzene	2	4	1	3
Borax	2	1	1	1
Brine	4	1	1	1
Bromine (dry)	3	4	1	3
Butane (gaseous)	1	2	1	1
Carbolic Acid	2	4	1	1
Carbon Dioxide (dry)	1	1	1	1
Carbonic Acid	4	1	1	1
Castor oil	1	1	1	1
Chlorine (dry)	4	4	1	2
Chrom Acid	4	4	1	1
Diesel Oil	1	1	1	1
Drill Oil	1	2	1	1
Emulsion Water/Oil	1	1	1	1
Fat Acids	4	2	1	1
Ferrochloride	2	2	1	1
Fluor (dry)	4	4	1	2
Formaldehyde	2	2	1	4
Gasoline	1	1	1	1
Glucose	1	1	1	1
Glycerin	4	1	1	1
Glycol	2	1	1	1
Heavy Fuel	2	4	1	3
Hydrogen Peroxide	2	4	1	2
Ink	3	1	1	1
Kerosene	3	1	1	1
Light Fuel	2	3	1	2
Lighting-Gas (w/o. Benzene)	1	2	1	1
Linseed Oil	2	1	1	1
Liquid Gas	1	3	1	1
Lubricating Oil	2	1	1	1
Magnesiumhydroxide	3	1	1	1

Medium	Brass		PTFE	
	Perbunan	FKM	Perbunan	FKM
Magnesiumsulfate	2	1	1	1
Methane	1	1	1	1
Milk	-	1	1	1
Mineral Oil	2	1	1	1
Molasses	3	1	1	1
Naphta	2	2	1	1
Naphtalene	3	4	1	1
Nitric Acid	4	4	1	2
Nitrobenzene	4	4	1	2
Nitrogen	1	1	1	1
Oil Acid	2	3	1	2
Olive-Oil	2	1	1	1
Oxygen	1	4	1	2
Paraffin	1	1	1	1
Pentan	1	1	1	1
Petroleum	1	1	1	1
Phosphor Acid (cold)	4	2	1	1
Potassium Chloride	2	1	1	1
Potassium Sulfate (watery)	2	1	1	1
Propylene	2	1	1	1
Quicksilver	4	1	1	1
Resin	1	3	1	3
Sea-Water	2	1	1	1
Sodium Bicarbonate	3	1	1	1
Sodium Chloride	3	1	1	1
Sodium Hydroxide (2% cold)	3	1	1	1
Sodium Nitrate	2	1	1	1
Sodium Sulfate	2	1	1	1
Sodium Sulfide	4	2	1	1
Steam (100°C)	1	4	1	4
Sulphuric Acid	3	4	1	1
Tannic Acid	2	2	1	1
Tar and Tar Oil	3	4	1	2
Toluene	1	4	1	2
Terpentine	2	2	1	1
Varnishes & Solvents	3	4	1	1/4
Vinegar	3	2	1	2
Water (cold)	1	1	1	1
Xylole	1	4	1	1
Zinc Chloride	4	2	1	1
Zinck Sulfate	2	1	1	1

1 = high resistant
 2 = resistant
 3 = limited resistant
 4 = inconsistant
 - = not yet tested

Sealing Compounds



General Markings

This table of resistance shall only be the line of direction. It cannot be regarded to be fully complete or absolutely correct. The measures are obtained from experiences. Due to different applications and mixing of the mediums there may occur possible differences.

The Mediums of Tightening and their Qualities

Perbunan (Nitrilcaoutschouc) NBR

Perbunan is of high resistance against oil, small concentrated solvents and many other mediums. Because of its high tightness it is also very suitable for gasvolumed fluids.

Perbunan may be used at temperatures between 253 K and 373 K (-20°C and +100°C).

It may not be used for some different types of hard-flamable hydraulic fluids.

PTFE (Teflon) (Polytetrafluorethylen)

PTFE is resistant against even all fluids, independent if it is solvents, lyes, acids or other fluids or gas.

It has excellent qualities of glide and is suitable for a great range of temperature from 173 K up to 473 K (-100°C to +200°C).

When being used in the high pressure area it is not recommended for more than 100 bar.

FKM/FFKM (Fluorelastomer/FPM)

FKM is resistant against oils, fuels, non-polar, solvents, acids and other aggressive fluids. The very good weather and aging resistance and excellent pressure resistance is to emphasize.

Dependent on purpose, FKM may be used at temperatures from -20°C to +200°C.

EPDM (Ethylen-Propylen-Terpolymer)

Also known as APTK. EPDM is extremely resistant against light, ozone, weather and ageing. Can be recommended for use with acids (acc. to concentration), alkali, water, alcohol, steam, hot water, cetone and polar solvents. Temperature range from -40°C to +150°C.

Hypalon® (Chlorsulfonyl-Polyethylen-Caoutschouc/CSM)

Elastic rubber with excellent resistance against all kinds of weather influences and extreme resistance against oxidizing chemicals, heat and rub off.

Temperature range from -40°C to +160°C.

TFEP 65.16-03 (AFLAS)

NEW!

High mechanical bearing at low and high pressure. Thermic pattern of a Silicon-rubber-quality. Excellent weather, hot water and steam-resistance at low pressure deformation.

To be used from -15°C up to 200°C maximum working temperature.

Shore hardness according to DIN 53505 A

28°	to	38°	–	very soft
40°	to	50°	–	soft
52°	to	66°	–	middle soft
68°	to	78°	–	middle hard
80°	to	90°	–	hard
92°	to	100°	–	very hard

Hypalon® is a product of DuPont Dow Elastomers.

Notices





RoHS-Directive

RoHS-Directive
 Exclusion of dangerous substances – EU directive 2002/95/EG, 2003/11/EG and 2005/618/EG (RoHS)

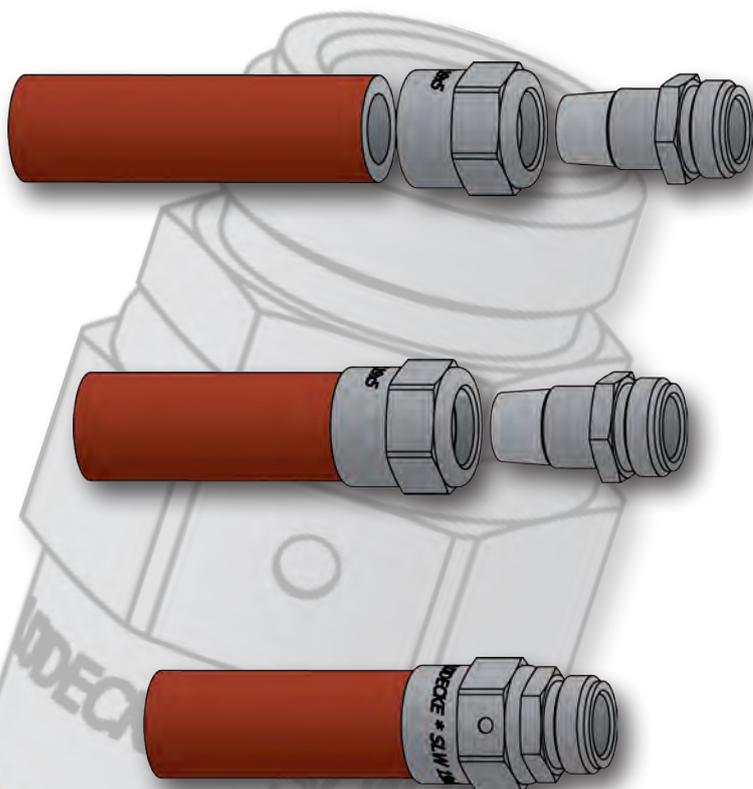
In order to adhere to this directive our galvanic equipment has been changed to chrome-VI-free zinc plating.

It is to be emphasised that we will keep on supplying our steel and malleable-iron articles yellow-coloured because the formerly yellow chromising containing chrome VI has been replaced by a high-grade chrome-VI-free yellow passivation.

In the future our steel and malleable-iron products will not change their look as demanded by our customers, the RoHS directive will be adhered to and the quality of our coupling systems "Made in Germany" will be improved once more due to this high-grade surface treatment.

The compliance with all other standards of the RoHS directive is also guaranteed regarding our suppliers of semi-finished goods and all internal production proceedings.

Hose Assembly With Thread Ferrules DIN EN 14 424



1. The fitting must be clamped in a vice.
2. Put the ferrule over the straight-cut hose (pay attention to the correct hose dimensions!)
3. Move the hose with ferrule over the stem up to the thread (use lubricant if necessary).
4. Control the correct hose fit by means of the viewing hole in the ferrule.
5. Screw the ferrule with the aid of a spanner on the fitting's thread until you reach the limit.
6. Control once again the correct hose fit by means of the viewing hole.
7. The thread ferrule is unlockable and reusable at any time.

Technical Tables

Threads

Our fittings are equipped with the following threads:

Whitworth pipe Threads according to ISO 228, DIN 2999

Coarse Threads according to DIN 405

NPT-Threads according to ASA B2.1

Metric Threads according to DIN 13

Parallel Threads Rp. according to ISO 7/1

Whitworth Pipe Thread according to
ISO 228 and DIN 2999

Thread ISO 228	Thread DIN 2999	Nominal- \varnothing outside rounded in mm	At Bottom- \varnothing of thread female in mm	Number of turns per inch = 25.4 mm
G1/8"	R1/8"	10	8.566	28
G1/4"	R1/4"	13	11.445	19
G3/8"	R3/8"	17	14.950	19
G1/2"	R1/2"	21	18.631	14
G5/8"	R5/8"	23	20.587	14
G3/4"	R3/4"	26	24.117	14
G7/8"	R7/8"	30	27.877	14
G1"	R1"	33	30.291	11
G1 1/4"	R1 1/4"	42	38.952	11
G1 1/2"	R1 1/2"	48	44.845	11
G2"	R2"	60	56.656	11
G2 1/2"	R2 1/2"	75	72.226	11
G3"	R3"	88	84.926	11
G4"	R4"	113	110.072	11

Round thread DIN 405
also milled thread

Thread in inch	Nominal- \varnothing outside rounded in mm	At Bottom- \varnothing of thread female in 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 standard taper pipe thread
(Abstract of ASA B2.1 - (1960))

Thread in inch	o.D. of tube	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

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

Conversion Table bar – PSI

Conversion factor Conversion factor
1 bar = 14,5035 PSI 1 PSI = 0,0689 bar

bar	PSI	PSI	bar
10	→ 145.0350	10	→ 0.6890
20	→ 290.0700	20	→ 1.3780
30	→ 435.1050	30	→ 2.0670
40	→ 580.1400	40	→ 2.7560
50	→ 725.1750	50	→ 3.4450
60	→ 870.2100	60	→ 4.1340
70	→ 1015.2450	70	→ 4.8230
80	→ 1160.2800	80	→ 5.5120
90	→ 1305.3150	90	→ 6.2010
100	→ 1450.3500	100	→ 6.8900

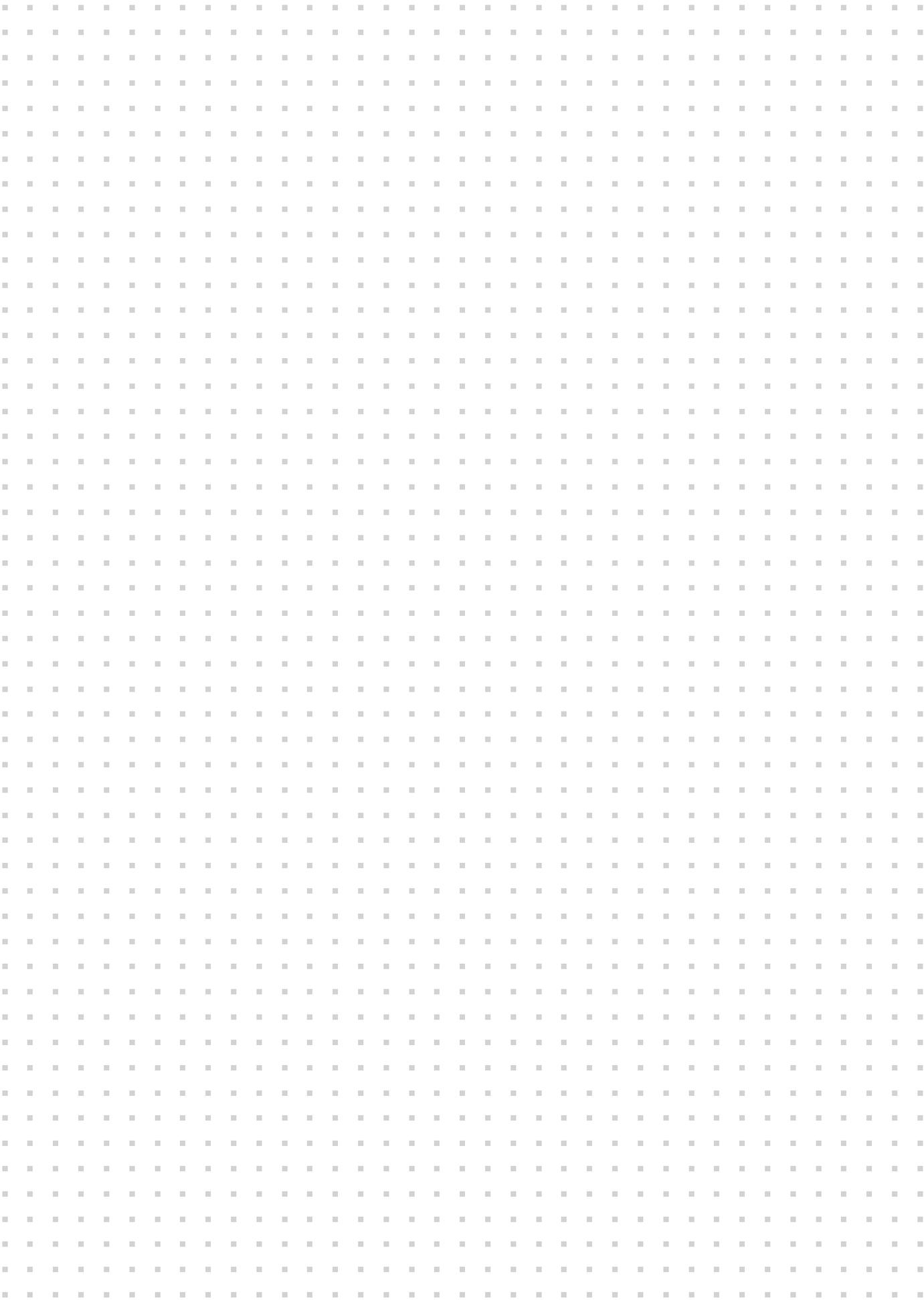
Abbreviations:

- DN → Diameter Nominal
- PN → Pressure Nominal
- ∅A → Outside Diameter-∅
- ∅I → Inner Diameter-∅
- Hexagon → Width across flats
- Hose i.D. → Hose inner diameter

We reserve the right for technical modifications of our products without specific information.

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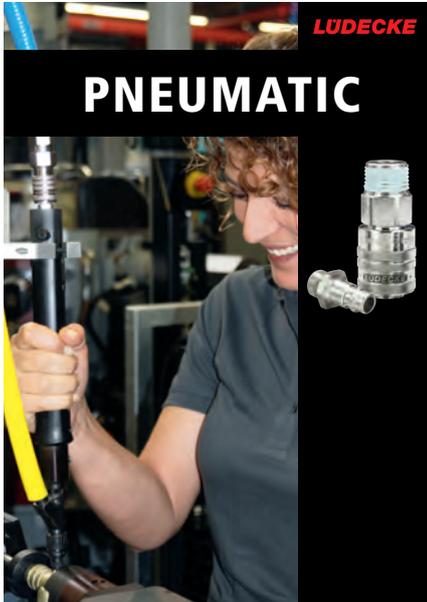
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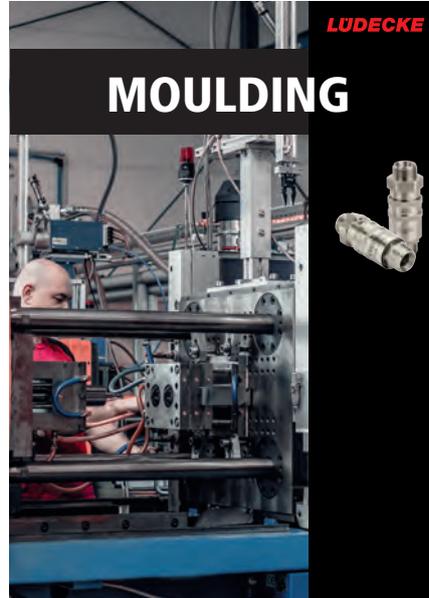
Posters

Special Posters available

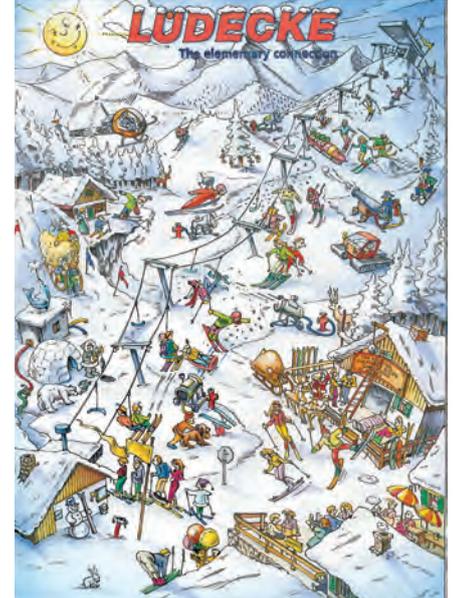
Product related posters on request!



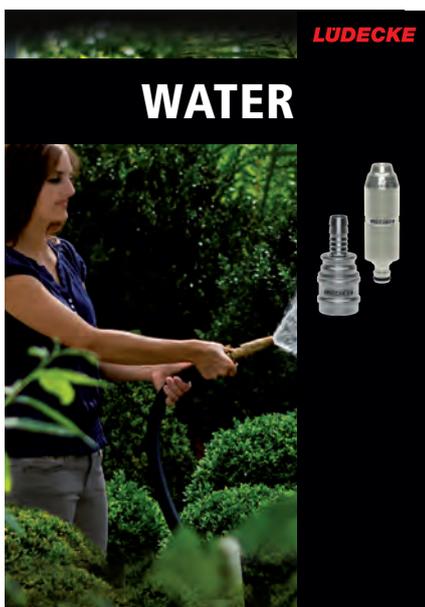
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PNEUMATIC



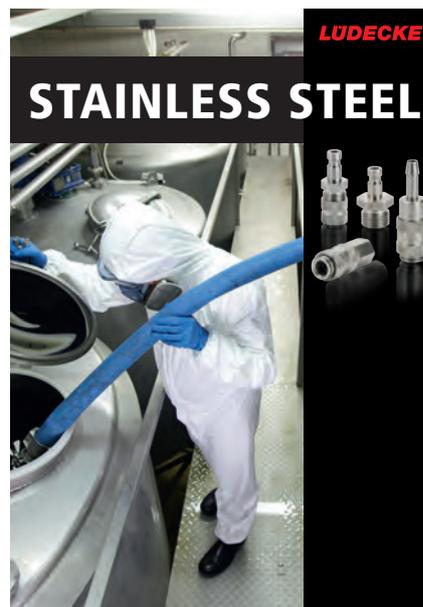
Poster: TEMPERATURE CONTROL QUICK CONNECT
COUPLINGS MOULDING



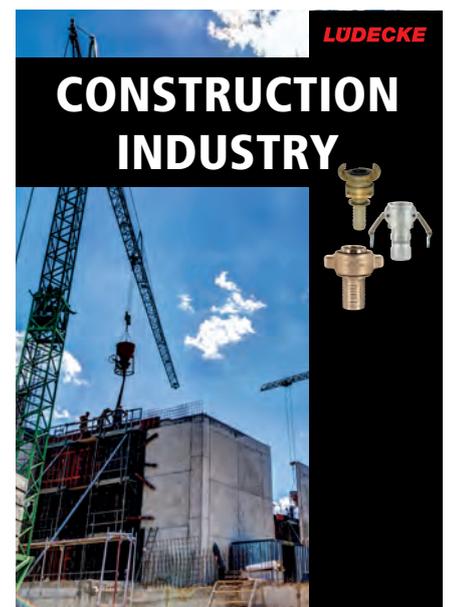
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Poster: CONSTRUCTION INDUSTRY



LUDECKE - on the road throughout Europe

Since 2009, the new **LUDECKE** show truck has been rolling over Europe's main traffic routes and has been drawing attention on itself everywhere. Designed in airbrush technique by the airbrush world champion Jürgen Fieber from Amberg, the latest generation Volvo truck has become a real feast for the eyes.

The truck is also available as a collector model in a limited edition. Furthermore it can be seen in the famous miniature train scenery of the district „Speicherstadt“ in Hamburg.



The **LUDECKE** homepage – the up-to-date program round-the-clock.

On our redesigned homepage you can find detailed information about **LUDECKE**. The complete program clearly arranged, with specific information about our production, logistics or sales team and the new detailed company video. The complete catalogue can be downloaded or used as online page catalogue. Moreover, we inform you about newly developed products, technical details, special campaigns, DIN-standards and/or product modifications.

Visit us online!

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Since 1930. Die perfekte Verbindung.

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Welcome to LUDECKE

LUDECKE production is very green technology. Since January 2012 LUDECKE has implemented a new energy management system (EMS) which optimizes energy consumption and reduces CO₂ emissions. The system is a first step towards a more sustainable production process. The system is a first step towards a more sustainable production process. The system is a first step towards a more sustainable production process.

ALBA news item

ALBA, a leading manufacturer of high-pressure couplings, has been awarded the 'Green Award' for its commitment to sustainable production. The award is a recognition of the company's efforts to reduce its carbon footprint and improve its energy efficiency.

Special award ceremony for new high-tech website

On 27 March the special ceremony took place in the company's main hall. The award was presented to the company by the local authorities. The award is a recognition of the company's efforts to improve its website and provide a better user experience.

Recent Year 2010 image

At the end of the year 2010, the company achieved a record in sales. This was due to the company's commitment to quality and customer service. The company's sales increased by 10% compared to the previous year.

From the press: The new Construction program 2011/2012

The company has announced its new construction program for 2011/2012. The program includes the construction of a new production facility and the expansion of the company's sales network. The company is committed to providing high-quality products and services to its customers.

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And again another successful exhibition: Ludecke at the MOTEX 2013

Four successful days in Stuttgart are behind us now. At the international leading event for production and assembly automation, we were able to display and demonstrate our quality products to an interested broad public in the product areas of pneumatic, temperature control, construction industry, water fittings as well as couplings of stainless steel.

Besides the informative and promising contacts, we especially appreciated the consistent positive feedback. Therefore, we would like to thank all our visitors for the interest in Ludecke. A special praise goes out once again to our committed exhibition team who made the success possible.

Our victory in the Ultramarathon-Event "ToTour"

The company's ultramarathon team has achieved a significant victory in the "ToTour" event. The team's performance was a testament to their dedication and hard work. The company is proud to support its employees in their athletic pursuits.

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The quick connection

Your LUDECKE Sales Team

Our sales team, your competent contact, are here for you and can be reached by telephone from Monday to Thursday 7:30 AM to 4:30 PM and Friday from 7:30 AM to 3:30 PM. Or simply contact us by email. Naturally all information is also available online round-the-clock.

Your Competent Contact

Our sales team offers you:

- technical product advice
- product advice for special production
- application recommendations
- order acceptance
- order processing
- order tracking information

by phone, fax or e-mail.

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Perfect Service through Worldwide Swift and Reliable Execution

The Logistics

To reliably serve our customers fast and comprehensively with over 20,000 separate products, the most modern, technological sales and warehousing systems are applied. The fast delivery capacity is guaranteed by the fully automated, high-tech warehousing technology, which is directly connected to the ERP system with an integrated distribution system. This enables the capacity to double in 2012.

Exact commissioning of all orders is guaranteed through integrated weight control in the automatic packing process. Thanks to this, the quantity loss and delivery times are prevented. Immediately upon shipment of your order, we will send you a shipping label via email, including the delivery note as a PDF file and the associated tracking number for direct shipment tracking via the internet.

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Products

- High-Pressure and Thermo-Visions
- Clear Couplings
- Screening Sets, Nozzles, Hose Connections
- Water Clamps, Hose and Sockets
- Water Couplings
- Sandblast Couplings
- Industrial Couplings and Fittings
- SNOWMASTER High-Pressure Quick Couplings
- Water Fittings
- Temperature-Regulation Quick Couplings
- Quick Disconnect Couplings
- Hoses of Glass and Alloys
- MCO® Spare Parts
- Industrial Fittings

LUDECKE
MADE IN GERMANY

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Industrial Couplings and Fittings

Industrial Couplings and Fittings

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AIR MUSEUM AMBERG

Art Architecture Design Technology



Having a look at air:

Situated on Amberg's prettiest square, the historic "Klösterl" ("little convent") complex dating from the 14th century with the fitting epithet "Engelsburg" ("angel's castle") offers unique showroom space on three levels (650 square meters) dedicated to the subject air ...

Air can be experienced and comprehended.

The AIR MUSEUM shows the "airparc" (on loan from Festo AG & Co. KG, designed and constructed in 2004 by Wilhelm Koch, Oskar Lottner, Andreas Schönberger) – all grey painted large objects.

Technical exhibits

LÜDECKE pneumatic couplings with the "pneumatic pinball machine", GRAMMER AG – pneumatic, air-conditioned seats, HERDING filter systems, GRAMMER Solar – hot air collectors, Carcoon air garage, Via Sports airboard, Ralf G. Augenstein fan collection ...

Objects on loan and pictures by artists, architects and designers

E. g., Hans Hemmer / Berlin – balloon chapel and video, Res Ingold / Munich airship, Ralf Homann "On Air", Luft&Laune, Architects of Air, Dreamspace, Frank Fiercke, HARUKO, Wilhelm Koch – former Gummeum collection "Squaring of the Tube", Vesuna tower model, pneumatic bicycle, air climbing stairs, inflated artist, thick and thin air, air pressure wave, vacuum blower, Zanotta air seat ...

Apart from exhibitions there are talks, readings, guided tours and concerts. On the ground floor there are changing exhibitions on design, architecture, art, technology and everyday art.

The AIR MUSEUM was founded as a private initiative at the beginning of 2006 and is financed by donations and air helpers without any public funding.



LUFTMUSEUM

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Phone 09621 420883 . Fax 09621 33327
www.luftmuseum.de . koch@luftmuseum.de

OPENING TIMES

April – September
Tue – Fri 2 – 6 pm
Sat / Sun 11 am – 6 pm
October – March
Tue – Fri 2 – 5 pm
Sat / Sun 11 am – 5 pm **TUE – FRI 2 – 5 PM**



LÜDECKE

connecting worldwide

LÜDECKE

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