

# Temperature Regulation





Quick Connect Couplings  
European Plug Profiles



Quick Connect Couplings  
International Plug Profiles



Quick Connect Couplings  
System STÄUBLI RPL



SoftFlow Material Conveying  
Quick Connect Couplings



Manifolds and Colour Coding



Screwings and Components



Hose Clips and Ferrules



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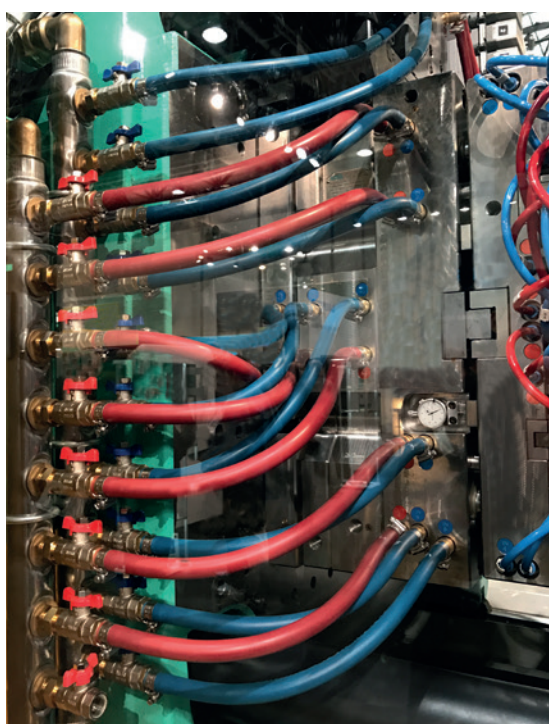
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## The Most Extensive Range of Coupling Systems and Accessories for Temperature Regulation Applications



Plastics processing companies rely on particularly robust and resistant couplings and fittings. The reason: They are used during cooling and heating of moulding units, during injection moulding or pressure casting and have to withstand extreme temperatures.

The high quality TempTec quick connect coupling systems by **LUDECKE** made of brass and stainless steel guarantee first class quality, complete reliability as well as an easy and fast operation. Particularly, we would like to point out our TempSecure® series, which offers an effective solution for unintentional disconnection under pressure.

### Advantages:

- High-class material
- Robust, safe and reliable
- Completely dense and durable
- Easy to couple
- Various sizes, connection and valve types
- Particularly safe and flexible solutions for temperature regulation applications



## Wide Selection

The **LUDECKE** product range contains a large selection of European and International plug profiles as well as the original Stäubli RPL-Series. These cover the world's most common used plug profiles.



European Plug Profiles



International Plug Profiles



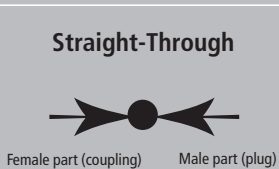
Original STÄUBLI RPL-Series

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

# Valve Designs

The **LUDECKE** quick connect couplings for temperature regulation applications are available in different valve designs.

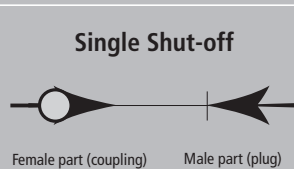
**Straight-Through**



Female part (coupling)    Male part (plug)

- No valve - neither within the coupling nor within the plug
- Maximum flow rate
- During disconnection: a leakage of the media from the coupling and plug line occurs

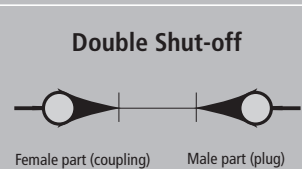
**Single Shut-off**



Female part (coupling)    Male part (plug)

- Straight-through plug
- Coupling with valve
- During disconnection: a media leakage from the plug line is possible

**Double Shut-off**



Female part (coupling)    Male part (plug)

- Valves on both sides (male/female)
- During disconnection: no leakage appears of coupling and plug, constant pressure

## Materials

**LUDECKE** only uses high-quality material for the temperature regulation products and are adapted for all applications areas.

### Brass (plain/ nickel-plated)

Most of the **LUDECKE** quick connect couplings consist of brass MS 58. It is a very sturdy material which guarantees high durability and can be excellently galvanized (nickel-plating).

### Stainless Steel

For clean-room applications or where aggressive media are used to cool down or heat up, temperature regulation quick connect couplings systems of stainless steel (1.4305) are recommended.

### Seals

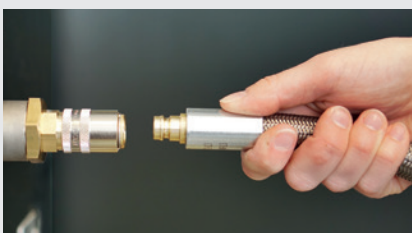
**LUDECKE** offers especially for temperature regulation applications standardized highly resistant seals of FKM. These are characterized by being heat-resistant up to 200°C\*, optimum glide properties, minimum wear, as well as a high elasticity and a high abrasion resistance which guarantees a significantly higher operation time of the couplings. Depending on the applications, special high-performance seals of FKM (Special-Hitec-FKM-O-ring), EPDM and FFKM are used. Further information can be found on the page 142.

To offer you the optimum solution (subject to application and media) we recommend a consultation with our competent sales and engineering team.

\*subject to used media

## Connecting Within Seconds

The **LUDECKE** quick connect couplings are characterized by an extra easy operation.



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



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





# Temperature Regulation Quick Connect Coupling System with Automatic Safety Locking Mechanism

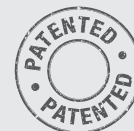
## Safety without Compromise for Temperature Regulation Applications



The patented **LUDECKE** TempSecure® temperature regulation quick connect coupling system features an automatic safety locking mechanism that offers an effective solution for unintentional disconnection and unlocking.

Thus, the coupling is especially suited for the use with aggressive media, such as temperature regulation applications with hot or cold water as well as tempered oil between - 20°C and + 200°C\*. High quality FKM-O-rings make the coupling an ideal media carrier especially with high temperature.

**Temp  
Secure®**  
by **LUDECKE**



\*subject to used media

### A plus for safety

- Patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass

### Maximum durability

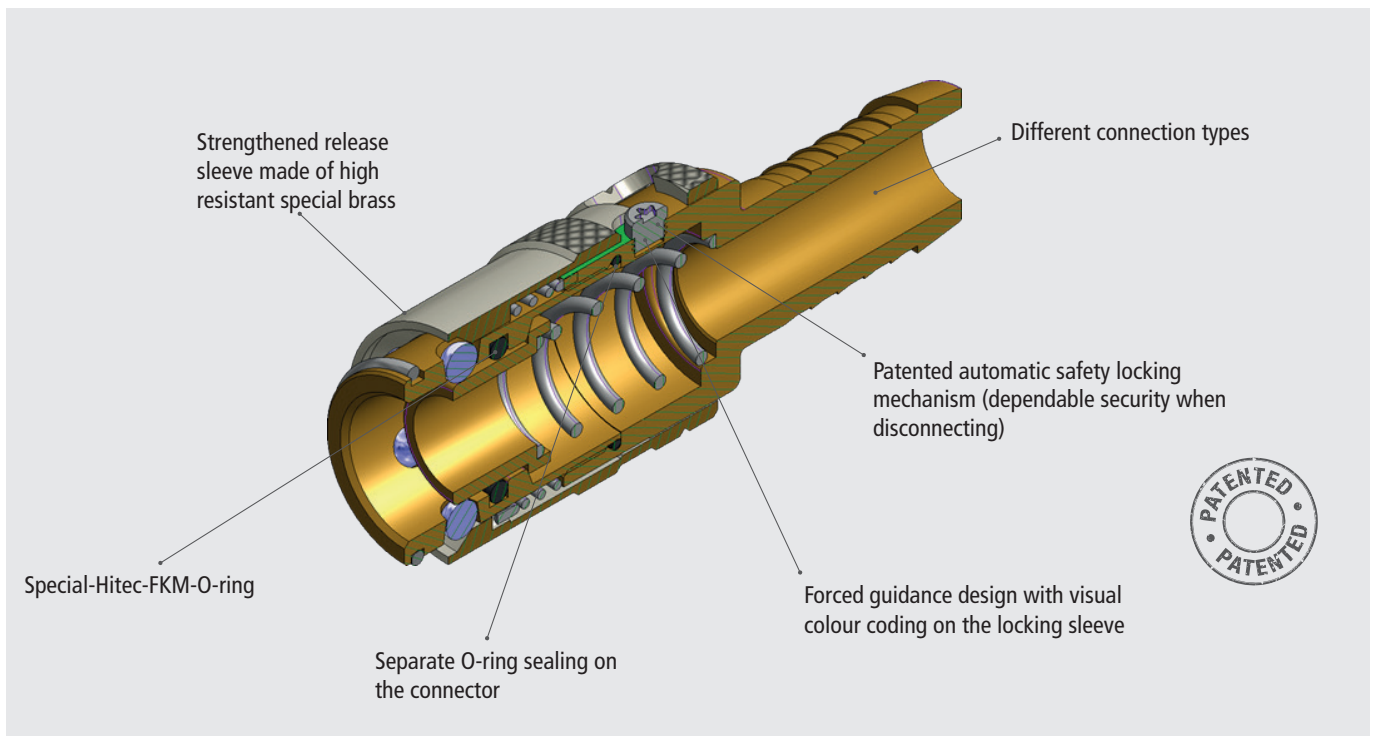
- High temperature seals (Special-Hitec-FKM-O-Ring) with resilient characteristics
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

### According to your desires

- Available for the series ESHMT DN 6 and ESHT DN 9 (European plug profile) as well as ESDMT DN 6 and ESDT DN 9 (completely compatible to international plug profile)
- **NEW!** Series ESHMT DN 6 and ESHT DN 9 also available in stainless steel
- **NEW!** Optionally available straight-through, single or double shut-off

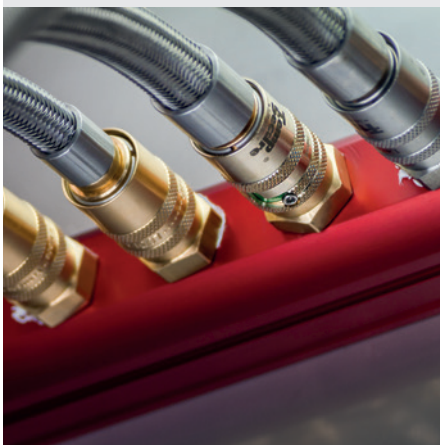


## High-Quality Materials Guarantee Best Reliability



## The Guardian Angel for the Plastics Industry

The TempSecure® safety coupling - is especially suited for high safety required applications due to high temperatures of the used media.

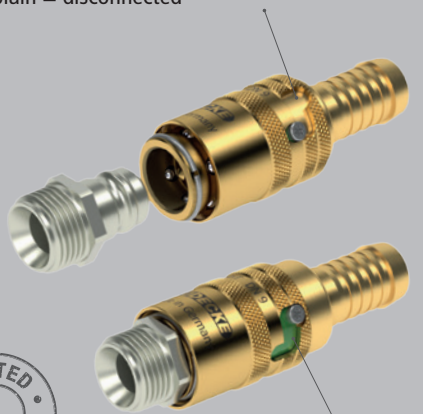






## Easy - Reliable - Quick

visual colour coding on the locking sleeve  
brass plain = disconnected



green = connected

The **LUDECKE** TempSecure® temperature regulation quick connect coupling system is characterized above all through its simple and intuitive connecting process. Even in difficult and hidden areas, this enables a safe operation.

The connection takes place via automatic locking. An additional colour coding on the locking sleeve indicates a correct and secure connection clearly and unequivocally.

The disconnecting process can be blindly executed due to the forced guidance of the locking sleeve – it requires an axial movement of turning the locking sleeve, basically a manual unlocking motion. An accidental or unintentional disconnection is practically impossible.

### 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. The coupling is now firmly connected with the plug and secured against unintentional opening.

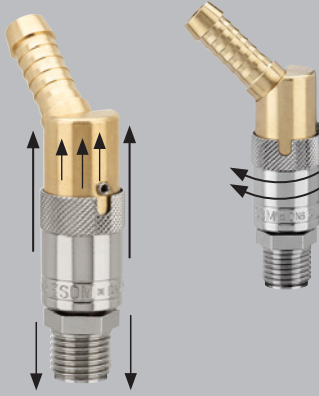
### Disconnection:



To release the plug from the safety coupling the sleeve has to be pushed manually and forcibly. Only with a conscious pulling/twisting movement, can the plug be removed from the safety coupling.

# The Unlocking Safeguard

## Safety for Man and Machine



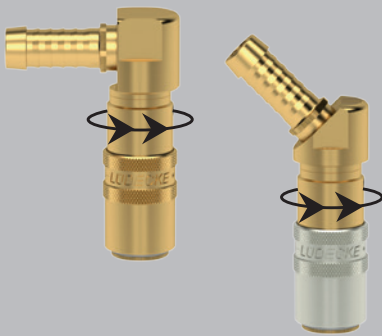
The **LUDECKE** temperature regulation product range contains alongside the TempSecure® Series, also a simplified unlocking safeguard.

- Disconnection only possible with an exact engagement of the safety pin into sleeve notch
- Prevention of fluid or pressure loss in the circulation during operation
- Prevention of human injury and harm to the environment, machine and tool
- Available for the Series ESHM, ESHME, ESH, ESHE as well as ESDM and ESD

Just add "S" on Type No. (e.g. ESHM 9 TLS)

# 360° Rotatable Connector

## Completely Flexible



The hose barb and male thread couplings from the series ESHM, ESH and ESDM are optionally available with a rotatable connector, with a high-quality ball-and-socket joint with double O-ring sealing\*.

- Swivel joint withstands the pulling and rotary motion when opening and closing the tool in the machine and prevents the fast wearing and abrasion of the O-ring inside the coupling through the permanent turning of the plug
- Leaks in the temperature regulation circuit are prevented
- Reduces the danger of bending hoses on their way to the tool

Just add "DR" on Type No. (e.g. ESHM 9 TLABDR), minimum order of 20 Pieces/ Type

\* for other coupling series on request

# The Anchoring Concept

## Safest Clamping Features with Quick-Fit Hose Stem Contour

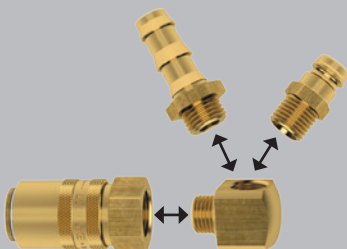


We optionally offer all couplings with quick-fit hose stem contour for the application with hoses (for systems ESDM and ESD on request).

- Safest clamping features without additional clamp assembly, provides a secure hold in combination with an absolute leak-free sealing between plug fitting and fastening hose
- No aid at all, tools or hose clamps are necessary to assemble the hose!
- Coloured rings assure an easy and clear marking of unicoloured fastening hoses to distinguish the difference between heating or cooling circulations.
- Suitable fastening hoses are available from various manufacturers and distributors
- Special models or other sizes / types on request
- Take care of max. permanent temperature of 100°C!

# The Modular System

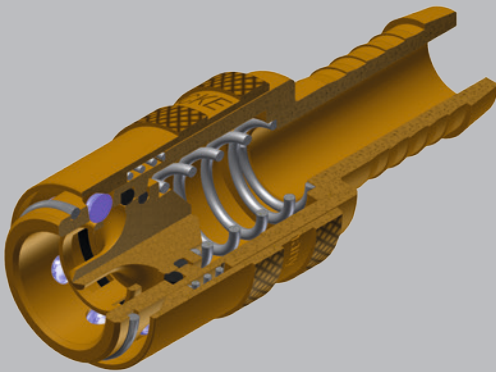
## Quick - Safe - Clean



The **LUDECKE** temperature regulation program is easily combinable according to your requirements: For a broad flexibility 45° and 90°- angle screwings are available which can be screwed to threaded couplings and hose stems.

# The New O-Ring-Generation made of FKM

## Even more Resistant and Durable



**LUDECKE** offers especially for temperature regulation applications high-performance seals made of FKM.

### Advantages

- Heat resistant up to 200°C
- High resistance against all common tempered media\*
- FKM-O-rings are generally PTFE coated, therefore significantly better gliding properties and minimum 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

### European Plug Systems:

with One-hand operation and O-ring-sealing

### International Plug Systems:

optionally with One-hand operation and O-ring-sealing

(Series ESDM / ESD)

or Two-hand operation with flat sealing

(Series ESDMF / ESDF)

Now standard in every coupling

# High-Performance Special Seals for Temperature Regulation Quick Connect Couplings

## High Resistance for Extreme Exposure

For the temperature regulation quick connect coupling series ESHM, ESH, ESHME, ESHE, ESDM and ESD as well as ESHG new high-performance special seals are alternatively offered for highly aggressive tempered fluids.

### 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)
- Steam/hot water optimized
- For easy differentiation, the coupling sleeve is marked with a green anodized aluminium ring

When ordering, simply add to the standard Type No. „HV“ (e.g. ESHM 9 TLABHV).

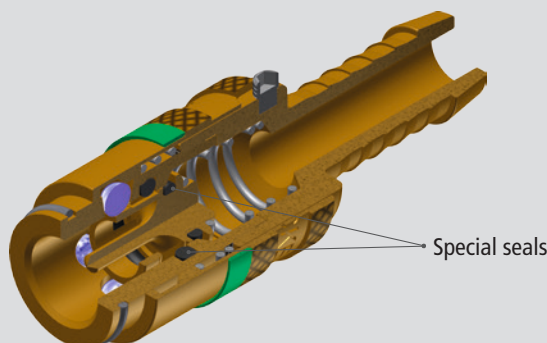
### HITEC®-EPDM-O-ring

- 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
- For easy differentiation the coupling sleeve is marked with a black anodized aluminium ring
- **Caution: This ring is not resistant to oils or grease**

When ordering, simply add to the standard Type No. „HE“ (e.g. ESHM 9 TLABHE).

Minimum Order of 20 Pieces/ Type

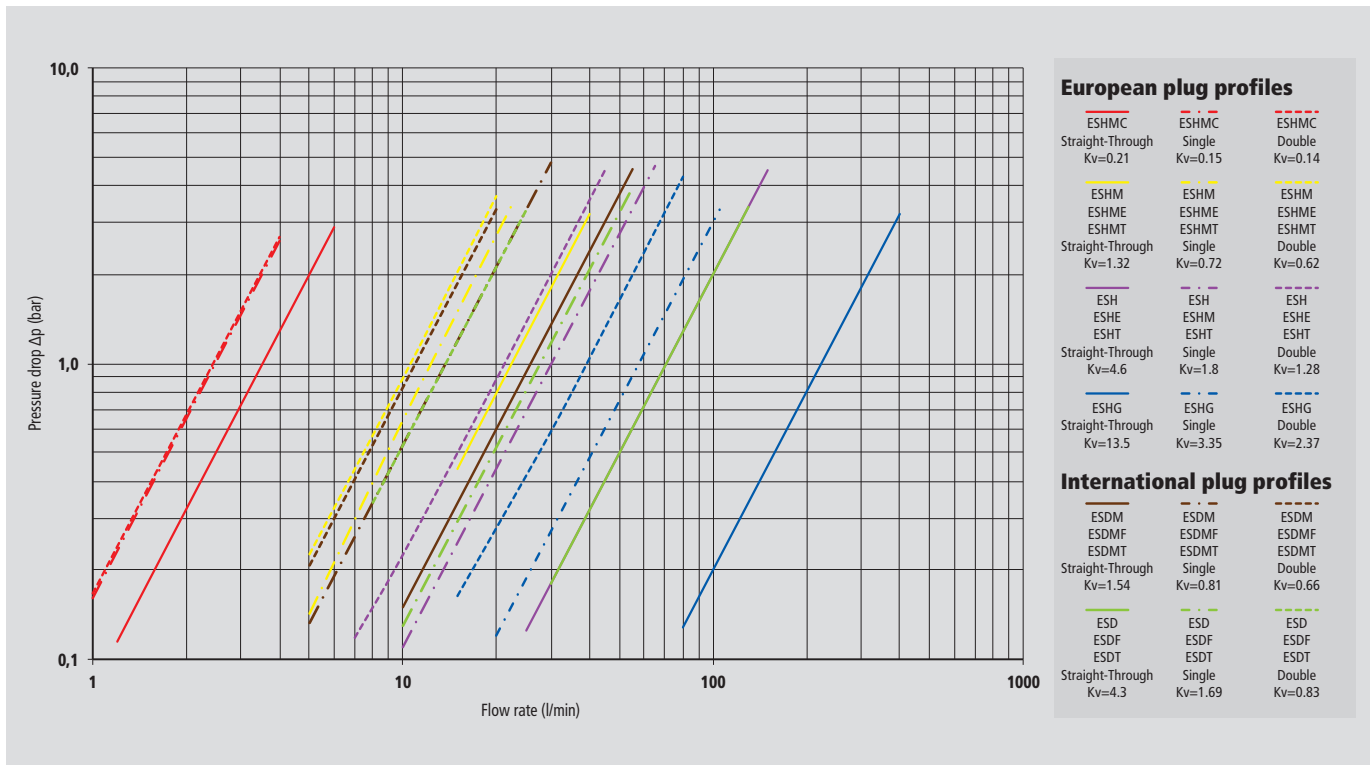
For other coupling series on request!



\*temperature resistance is subject to the suitable media

# Flow Chart

The flow rates of our different temperature regulation quick connect coupling systems are summarized in the following chart.



## Additional Information

- For permanent operation over 160°C, an exact specification for the necessary type should be determined (© page 142 for special seals)
- The **LUDECKE** temperature regulation quick connect couplings have 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 brass nickel-plated, the metric threads are brass plain
  - The sleeves of straight-through couplers are brass nickel-plated
  - Categorical colour coding system for distinction between flow and return (© page 205)
- Couplings with extended sleeves can easily be connected and disconnected with countersunk plugs in the mould
- All shut-off valve couplings are generally suitable for connection with shut-off valve plugs
- 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



# Overview of the Quick Connect Couplings with



Series **ESHMC**  
DN 2.7

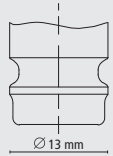
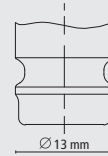
**ESHM**  
DN 6

**ESHMT**  
DN 6

**ESH**  
DN 9

**ESHT**  
DN 9

Plug profile  
(original size)



**Materials:**

**Body:** Brass MS 58 plain  
**Sleeve\*:** Brass MS 58 (plain/n-pl.)  
**Valve Body:** Brass MS 58 plain  
**Valve:** Brass MS 58 plain

**Springs, Retaining Ring:** Stainless Steel 1.4310  
**Balls:** Stainless Steel 1.3541

**Seals:** FKM (PTFE-coated)  
**Special seals for other media on request:** EPDM, FFKM

**Plug:** Brass MS 58 (plain/n-pl.)

**Max. Working Pressure:** PN 15 bar

**Temperature:** -20°C– +200°C\*\*

**Thread Types:** DIN 13

**Flow rate:** see chart p. 143

**Connection:** straight/45°/90°

**Type of Valve:** single/double/straight-through

**Operation:** One-Hand

**Page:** 146

**Body:** Brass MS 58 plain  
**Sleeve\*:** Brass MS 58 (plain/n-pl.)  
**Valve Body:** Brass MS 58 plain  
**Valve:** Brass MS 58 plain

**Springs, Retaining Ring:** Stainless Steel 1.4310  
**Balls:** Stainless Steel 1.4034

**Seals:** FKM (PTFE-coated)  
**Special seals for other media on request:** EPDM, FFKM

**Plug:** Brass MS 58 (plain/n-pl.)

**Max. Working Pressure:** PN 15 bar

**Temperature:** -20°C– +200°C\*\*

**Thread Types:** ISO 228, DIN 13

**Flow rate:** see chart p. 143

**Connection:** straight/45°/90°

**Type of Valve:** single/double/straight-through

**Operation:** One-Hand

**Page:** 148

**Body:** Brass MS 58 plain  
**Sleeve\*:** hrbsb (plain/nickel-plated)  
**Valve Body:** Brass MS 58 plain  
**Valve:** Brass MS 58 plain

**Springs, Retaining Ring:** Stainless Steel 1.4310  
**Balls:** Stainless Steel 1.4034

**Seals:** Special-Hitec-FKM-O-Ring  
**Special seals for other media on request:** EPDM, FFKM

**Plug:** Brass MS 58 (plain/n-pl.)

**Max. Working Pressure:** PN 15 bar

**Temperature:** -20°C– +200°C\*\*\*

**Thread Types:** ISO 228, DIN 13

**Flow rate:** see chart p. 143

**Connection:** straight/45°/90°

**Type of Valve:** single/double/straight-through

**Operation:** One-Hand

**Page:** 152

**Body:** Brass MS 58 plain  
**Sleeve\*:** Brass MS 58 (plain/nickel-pl.)  
**Valve Body:** Brass MS 58 plain  
**Valve:** Brass MS 58 plain

**Springs, Retaining Ring:** Stainless Steel 1.4310  
**Balls:** Stainless Steel 1.4034

**Seals:** FKM (PTFE-coated)  
**Special seals for other media on request:** EPDM, FFKM

**Plug:** Brass MS 58 (plain/n-pl.)

**Max. Working Pressure:** PN 15 bar

**Temperature:** -20°C– +200°C\*\*

**Thread Types:** ISO 228, DIN 13

**Flow rate:** see chart p. 143

**Connection:** straight/45°/90°

**Type of Valve:** single/double/straight-through

**Operation:** One-Hand

**Page:** 153

**Body:** Brass MS 58 plain  
**Sleeve\*:** hrbsb (plain/nickel-plated)  
**Valve Body:** Brass MS 58 plain  
**Valve:** Brass MS 58 plain

**Springs, Retaining Ring:** Stainless Steel 1.4310  
**Balls:** Stainless Steel 1.4034

**Seals:** Special-Hitec-FKM-O-Ring  
**Special seals for other media on request:** EPDM, FFKM

**Plug:** Brass MS 58 (plain/n-pl.)

**Max. Working Pressure:** PN 15 bar

**Temperature:** -20°C– +200°C\*\*\*

**Thread Types:** ISO 228, DIN 13

**Flow rate:** see chart p. 143

**Connection:** straight/45°/90°

**Type of Valve:** single/double/straight-through

**Operation:** One-Hand

**Page:** 157

# European Plug Profiles



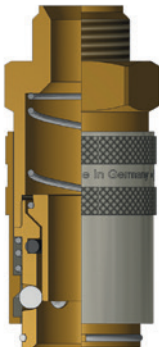
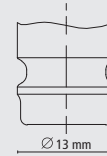
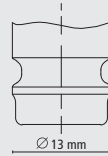
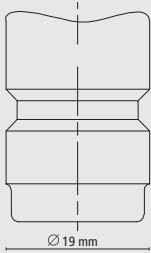
**ESHG**  
DN 13

**ESHME**  
DN 6

**ESHMTE**  
DN 6

**ESHE**  
DN 9

**ESHTe**  
DN 9



Brass MS 58 plain  
Brass MS 58 (plain/n-pl.)  
Brass MS 58 plain  
Brass MS 58 plain

Stainless Steel 1.4305  
Stainless Steel 1.4305  
Stainless Steel 1.4305  
Stainless Steel 1.4305

Stainless Steel 1.4305  
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Stainless Steel 1.4034

Stainless Steel 1.4310  
Stainless Steel 1.4034

Stainless Steel 1.4310  
Stainless Steel 1.4034

FKM (PTFE-coated)

FKM (PTFE-coated)

Special-Hitec-FKM-O-ring

FKM (PTFE-coated)

Special-Hitec-FKM-O-ring

EPDM, FFKM

EPDM, FFKM

EPDM, FFKM

EPDM, FFKM

EPDM, FFKM

Brass MS 58 (plain/n-pl.)

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

Stainless Steel 1.4305

PN 15 bar

PN 15 bar

PN 15 bar

PN 15 bar

PN 15 bar

-20°C– +200°C\*\*

-20°C– +200°C\*\*

-20°C– +200°C\*\*

-20°C– +200°C\*\*

-20°C– +200°C\*\*

ISO 228, DIN 13

ISO 228, DIN 13

ISO 228, DIN 13

ISO 228, DIN 13

ISO 228, DIN 13

see chart p. 143

see chart p. 143

see chart p. 143

see chart p. 143

see chart p. 143

straight/45°/90°

straight/45°/90°

straight/45°/90°

straight/45°/90°

straight/45°/90°

single/double/straight-through

single/double/straight-through

single/double/straight-through

single/double/straight-through

single/double/straight-through

One-Hand

One-Hand

One-Hand

One-Hand

One-Hand

158

162

164

165

167

\*coupling with valve: Brass plain, coupling without valve: Brass nickel-plated

\*\*subject to media (oil: 200°C, water: 150°C, air: 200°C)

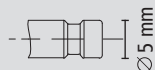
\*\*\*subject to media (oil: 200°C, water: 160°C, air: 200°C)

hrsb: high resistant special brass material

# Temperature Regulation Quick Connect Couplings

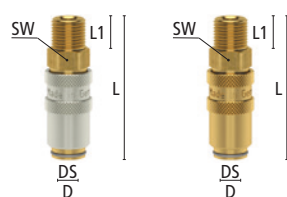
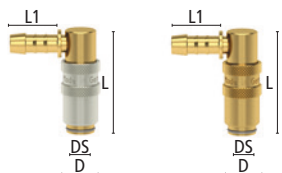
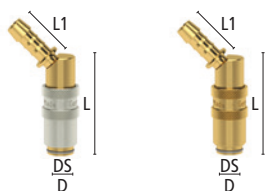
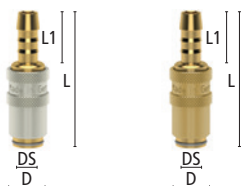
## Series ESHMC plug size 5 mm

**DN 2.7**



Plug Profile (original size)

European  
Plug Profile



- For temperature regulation applications with hot or cold water as well as tempered oil
- The series DN 2.7 is especially suitable for the connection of temperature regulation controlled lines on moulds in the plastics manufacturing industry for the production of micro-parts with very small tools
- Optional with straight-through, 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, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/nickel-plated
- Balls: Stainless steel 1.3541
- Springs, retaining ring: Stainless steel 1.4310
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	2.7	DIN 13, DIN 158	One-hand	single/double/straight-thr.	Tempered Media	Coupl. 5 / Plug 10

### Couplings with straight standard hose stem without / with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No.w/o valve	Type No. w valve
Hose i.D. 5	35	10	13.5	5	3.5	10	ESHMC 5 TL	ESHMC 5 TLAB

### Couplings with 45° standard hose stem without / with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No.w/o valve	Type No.w valve
Hose i.D. 5	41	10	13.5	5	3.5	8	ESHMC 5 TL-45	ESHMC 5 TL-45AB

### Couplings with 90° standard hose stem without / with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No.w/o valve	Type No. w valve
Hose i.D. 5	41	10	13.5	5	3.5	8	ESHMC 5 TL-90	ESHMC 5 TL-90AB

### Couplings with straight male thread without / with valve

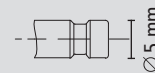
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No.w/o valve	Type No. w valve
M 5x0.5 m	31	9	10	5	5	3.5	9	ESHMC 505 A	ESHMC 505 AAB
M 8x0.75 m	33	9	10	7	5	3.5	10	ESHMC 875 A	ESHMC 875 AAB

Suitable hose clips for hose couplings, double-ear hose clips or crimping ferrules for standard hoses (© page 414 - 417)

# Temperature Regulation Quick Connect Couplings

## plug size 5 mm **Series ESHMC**

**DN2.7**



Plug Profile (original size)

### Plugs with straight standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 5	25	9	13.5	10	5	2.7	3	ESHMC 5 SL

### Plugs with straight male thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
M 5x0.5 m	18	7	5	10	5	2.7	3	ESHMC 505 NA
M 8x0.75 m	20	9	7	10	5	2.7	4	ESHMC 875 NA

### Plugs with straight male thread with valve

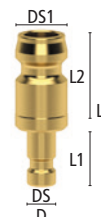
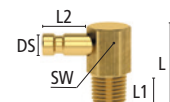
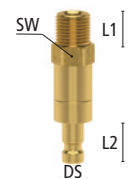
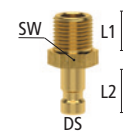
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
M 5x0.5 m	28	9	5	10	5	2.7	7	ESHMC 505 NAAB
M 8x0.75 m	30	9	7	10	5	2.7	7	ESHMC 875 NAAB

### Plugs with 90° male thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
M 5x0.5 m	15.5	9	5	10	5	2.7	9	ESHMC 505 NA-90
M 8x0.75 m	17.5	9	5	10	5	2.7	11	ESHMC 875 NA-90

### System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 2.7 - DN 2.7	22	6	10	10	5	5	2.7	3	ESHMC-ESHMC
DN 2.7 - DN 6	26.5	9	10	14	5	9	2.7	9	ESHMC-ESHM

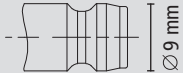




# Temperature Regulation Quick Connect Couplings

## Series ESHM plug size 9 mm

**DN6**



Plug Profile (original size)

European  
Plug Profile

Also in  
Stainless Steel  
Series ESHME  
page 308

- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, 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.

### Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO228/ DIN13/ DIN158	One-hand	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

### Couplings with hose connection

#### Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	53	17	22.5	9	5	40	ESHM 6 TL	ESHM 6 TLAB
Hose i.D. 9	53	17	22.5	9	6	45	ESHM 9 TL	ESHM 9 TLAB
Hose i.D. 9	53	17	22.5	9	6	45	ESHM 9 TL	ESHM 9 TLAB
Hose i.D. 13	55	17	25	9	6	54	ESHM 13 TL	ESHM 13 TLAB

#### Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	58.5	17	28	9	5	42	ESHM 6 T	ESHM 6 TAB
Hose i.D. 10	58.5	17	28	9	6	49	ESHM 10 T	ESHM 10 TAB

#### Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	42.5	17	25.5	9	5	58	ESHM 6 TL-45	ESHM 6 TL-45AB
Hose i.D. 9	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 connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	42.5	17	33	9	5	59	ESHM 6 T-45	ESHM 6 T-45AB
Hose i.D. 10	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 connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	42.5	17	25.5	9	5	58	ESHM 6 TL-90	ESHM 6 TL-90AB
Hose i.D. 9	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 connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	42.5	17	33	9	5	59	ESHM 6 T-90	ESHM 6 T-90AB
Hose i.D. 10	42.5	17	33	9	6	68	ESHM 10 T-90	ESHM 10 T-90AB

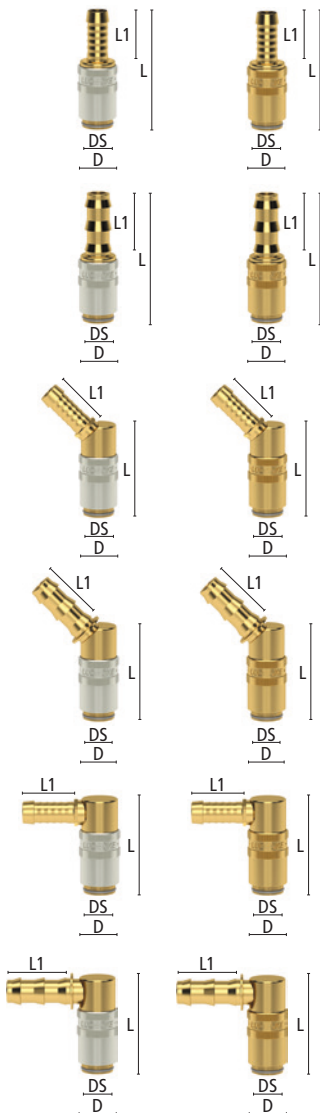
### Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 6	14	blue	50	0.3	AR-BL 6
For Hose i.D. 6	14	red	50	0.3	AR-RO 6
For Hose i.D. 6	14	yellow	50	0.3	AR-GE 6
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10

Simply put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses – (© page 414 - 417)

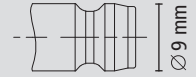
**Safety instruction:** Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!



# Temperature Regulation Quick Connect Couplings

plug size 9 mm **Series ESHM**

**DN6**

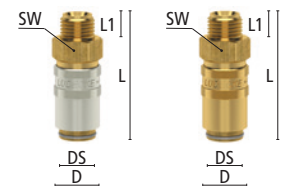


Plug Profile (original size)

## Couplings with thread connection

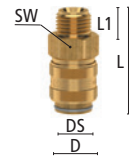
### Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	48	17	17	9	9	6	60	ESHM 14 A	ESHM 14 AAB
G 3/8 m	48	19	17	9	9	6	70	ESHM 38 A	ESHM 38 AAB
M 10x1 m	46	17	17	7	9	6	60	ESHM 101 A	ESHM 101 AAB
M 14x1.5 m	48	17	17	9	9	6	60	ESHM 1415 A	ESHM 1415 AAB
M 16x1.5 m	48	19	17	9	9	6	70	ESHM 1615 A	ESHM 1615 AAB
G 1/4 m	52	17	17	11	9	6	65	ESHM 14 AL*	ESHM 14 ALAB
G 3/8 m	52	19	17	11	9	6	75	ESHM 38 AL*	ESHM 38 ALAB
M 14x1.5 m	52	17	17	11	9	6	65	ESHM 1415 AL*	ESHM 1415 ALAB



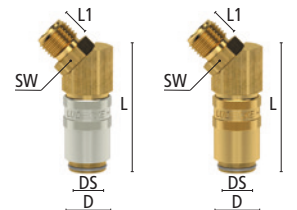
### Couplings with straight male thread (short version) with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No.
G 1/4 m	38	17	17	9	9	6	45	ESHM 14 AKAB



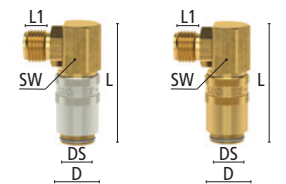
### Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	47	17	17	9	9	6	65	ESHM 14 A-45	ESHM 14 A-45AB
G 3/8 m	47	19	17	10	9	6	75	ESHM 38 A-45	ESHM 38 A-45AB
M 10x1 m	47	17	17	7	9	6	65	ESHM 101 A-45	ESHM 101 A-45AB
M 14x1.5 m	47	17	17	9	9	6	65	ESHM 1415 A-45	ESHM 1415 A-45AB
M 16x1.5 m	47	19	17	9	9	6	75	ESHM 1615 A-45	ESHM 1615 A-45AB
G 3/8 m	47	19	17	11	9	6	80	ESHM 38 AL-45*	ESHM 38 AL-45AB*



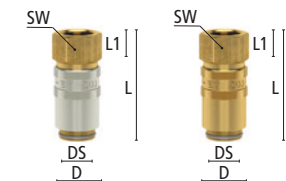
### Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	47	17	17	9	9	6	75	ESHM 14 A-90	ESHM 14 A-90AB
G 3/8 m	47	19	17	9	9	6	85	ESHM 38 A-90	ESHM 38 A-90AB
M 10x1 m	47	17	17	7	9	6	75	ESHM 101 A-90	ESHM 101 A-90AB
M 14x1.5 m	47	17	17	9	9	6	75	ESHM 1415 A-90	ESHM 1415 A-90AB
M 16x1.5 m	47	19	17	9	9	6	85	ESHM 1615 A-90	ESHM 1615 A-90AB
G 3/8 m	47	19	17	11	9	6	90	ESHM 38 AL-90*	ESHM 38 AL-90AB*



### Couplings with straight female thread without/with valve

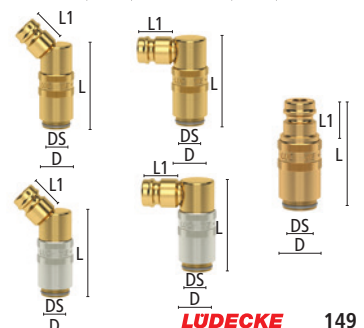
Thread connection	L	SW	D	L1	D1	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	41.5	17	17	9	9	6	50	ESHM 14 I	ESHM 14 IAB
G 3/8 f	42	21	17	9	9	6	60	ESHM 38 I	ESHM 38 IAB
M 10x1 f	41.5	17	17	9	9	6	50	ESHM 101 I	ESHM 101 IAB
M 14x1.5 f	41.5	17	17	9	9	6	50	ESHM 1415 I	ESHM 1415 IAB



### Couplings with plug DN 9 - ESH System Adapters and ESHM-ESD System Adapter

Connection	L	D	L1	DS	Passage	System	Weight	Type No. w/o valve	Type No. w valve
DN 6 - DN 9	52	17	14	9	6	straight	75	ESHMK-ESHS	ESHMK-ESHS-AB
DN 6 - DN 9	49	17	14	9	6	45°	80	ESHMK-ESHS-45	ESHMK-ESHS-45AB
DN 6 - DN 9	47	17	14	9	6	90°	80	ESHMK-ESHS-90	ESHMK-ESHS-90AB
DN 6 - DN 6	52	17	10.5	9	6	straight	70	ESHMK-ESDMS	ESHMK-ESDMS-AB
DN 6 - DN 9	52	17	15.5	9	6	straight	75	ESHMK-ESDS	ESHMK-ESDS-AB

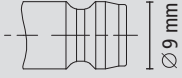
\*Version AL with longer male thread mainly used for assembly with Ermeto-screwings.



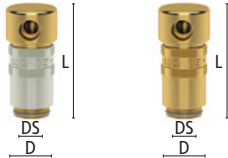
# Temperature Regulation Quick Connect Couplings

## Series ESHM plug size 9 mm

**DN6**



Plug Profile (original size)



### Diversion coupling for temperature regulation bridges with 90° tube connection without/ with valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 8/6	43	17	9	6	63	ESHM 8-U	ESHM 8-UAB

### Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 8/6	250	8	6	45	TR 250-8
Tube 8/6	500	8	6	93	TR 500-8

### Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	30	17	9	37	ESHM-B

### Plugs

#### Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	39.5	12	22.5	14	9	5	9	ESHM 6 SL
Hose i.D. 9	39.5	12	22.5	14	9	6	13	ESHM 9 SL
Hose i.D. 9	51.5	12	34.5	14	9	6	21	ESHM 9 SP**
Hose i.D. 13	39.5	16	22.5	14	9	6	17	ESHM 13 SL

#### Plugs with quick-fit hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	44	12	28	14	9	5	11	ESHM 6 S
Hose i.D. 10	44	16	28	14	9	6	18	ESHM 10 S

#### Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	24	11	7	14	9	6	10	ESHM 18 NA*
G 1/4 m	26	15	9	14	9	6	14	ESHM 14 NA*
G 3/8 m	27	17	9	14	9	6	18	ESHM 38 NA*
M 8x0.75 m	24	11	7	14	9	4.5	9	ESHM 875 NA
M 10x1 m	24	11	7	14	9	6	8	ESHM 101 NA
M 14x1.5 m	26	15	9	14	9	6	14	ESHM 1415 NA
M 16x1.5 m	26	17	9	14	9	6	18	ESHM 1615 NA

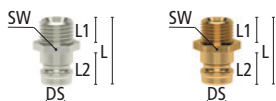
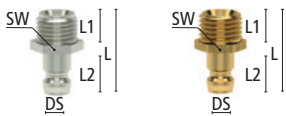
#### Plugs with straight male thread and inner hexagon without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	System	Type No.
G 1/8 m	24	11	7	14	9	6	10	SW5.19mm depth	ESHM 18 NAIB*
G 1/4 m	26	15	9	14	9	6	14	SW5.19mm depth	ESHM 14 NAIB*
M 10x1 m	24	11	7	14	9	6	8	SW5.19mm depth	ESHM 101 NAIB
M 14x1.5 m	26	15	9	14	9	6	14	SW5.19mm depth	ESHM 1415 NAIB

For easy assembly with Allen key countersunk in the tool

\*Plugs with inch thread nickel-plated for simple distinction

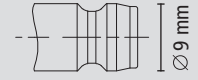
\*\*crimping ferrules



# Temperature Regulation Quick Connect Couplings

plug size 9 mm **Serie ESHM**

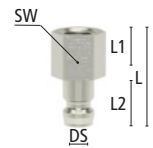
**DN6**



Plug Profile (original size)

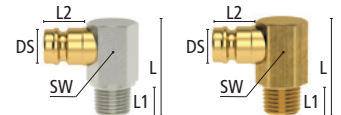
## Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 f	27	14	9	14	9	6	15	ESHM 18 NI*
G 1/4 f	27	17	9	14	9	6	19	ESHM 14 NI*
G 3/8 f	27	19	10	14	9	6	25	ESHM 38 NI*



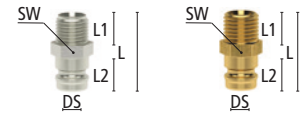
## Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/8 m	27	15	9	14	9	6	35	ESHM 18 NA-90*
R 1/4 m	29	15	11	14	9	6	40	ESHM 14 NA-90*
R 3/8 m	30	17	12	14	9	6	44	ESHM 38 NA-90*
M 8x0.75 m	27	15	9	14	9	4.5	38	ESHM 875 NA-90
M 10x1 m	27	15	9	14	9	6	38	ESHM 101 NA-90
M 14x1.5 m	29	15	11	14	9	6	40	ESHM 1415 NA-90



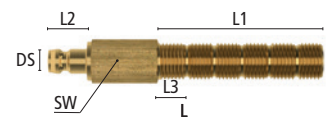
## Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	36	15	8	14	9	6	13	ESHM 18 NAAB*
G 1/4 m	29	15	12	14	9	6	14	ESHM 14 NAAB*
G 3/8 m	30	17	12	14	9	6	22	ESHM 38 NAAB*
M 14x1.5 m	29	15	12	14	9	6	15	ESHM 1415 NAAB



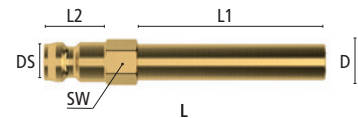
## Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/8 m	100	11	60	14	10	9	6	36	ESHM 18-60 NA
G 1/4 m	100	14	60	14	10	9	6	58	ESHM 14-60 NA
G 3/8 m	100	17	60	14	10	9	6	90	ESHM 38-60 NA
M 10x1 m	100	11	60	14	10	9	6	36	ESHM 101-60 NA
M 14x1.5 m	100	14	60	14	10	9	6	61	ESHM 1415-60 NA



## Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	9	42	14	9	5	14	ESHM 63 R
8	100	9	79	14	9	5	20	ESHM 100 R
10	63	11	42	14	9	6	20	ESHM 63 R10
10	100	11	79	14	9	6	58	ESHM 100 R10
10	120	11	99	14	9	6	49	ESHM 120 R
10	240	11	219	14	9	6	103	ESHM 240 R
10	360	11	339	14	9	6	157	ESHM 360 R
14	150	15	127	14	9	6	114	ESHM 150 R-14



## System Adapters

Connection	L	L1	L2	DS	DS1	Weight	Type No.
DN 6 - DN 6	34	14	14	9	9	14	ESHM-ESHM
DN 9 - DN 6	34	14	14	13	9	18	ESH-ESHM
Protection cap (plastic) for plug profile ESHM					☐ 100		ESHM-K

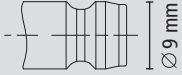


\*Plugs with inch thread nickel-plated for simple distinction

# Temperature Regulation Quick Connect Couplings

**Series ESHMT** Plug size 9 mm – High Resistant Special Brass  
with Automatic Locking Mechanism

**DN6**



Plug Profile (original size)

- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- **For temperature regulation applications with hot or cold water as well as tempered oil**
- Optionally available with straight-through, single or double shut-off valves
- Versions with additional O-ring sealing at connection port to prevent leakage with high temperature applications

### Materials

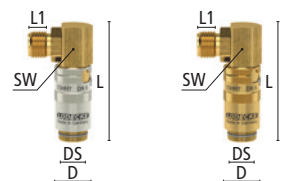
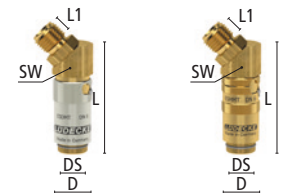
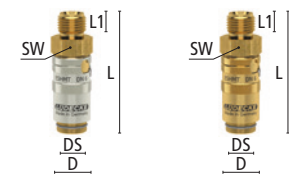
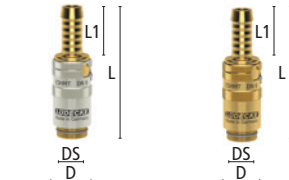
- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: Special-Hitec-FKM-O-ring

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



European  
Plug Profile

Also in  
Stainless Steel  
Series ESHME  
page 310



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C to +200°C*	6	ISO 288/ DIN13	One-hand	single/double/straight-thr.	Tempered media	5

### Couplings with hose connection

#### Couplings with straight standard hose barb without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61	18	22.5	9	6	58	ESHMT 9 TL	ESHMT 9 TLAB

#### Couplings with 45° standard hose stem without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	54	18	22.5	9	6	82	ESHMT 9 TL45	ESHMT 9 TL45AB

#### Couplings with 90° standard hose stem without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	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 connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	58	17	18	11	9	6	73	ESHMT14AL	ESHMT14ALAB
G 3/8 m	57	19	18	11	9	6	76	ESHMT38AL	ESHMT38ALAB
M 14x1.5 m	58	17	18	11	9	6	76	ESHMT1415AL	ESHMT1415ALAB

#### Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	54	17	18	11	9	6	85	ESHMT14AL45	ESHMT14AL45AB
M 14x1.5 m	54	17	18	11	9	6	87	ESHMT1415AL45	ESHMT1415AL45AB

#### Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	54	17	18	11	9	6	94	ESHMT14AL90	ESHMT14AL90AB
M 14x1.5 m	54	17	18	11	9	6	96	ESHMT1415AL90	ESHMT1415AL90AB

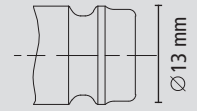
Other types / sizes on request!

# Temperature Regulation Quick Connect Couplings

Plug size 13 mm **Series ESH**

- For temperature regulation applications with hot or cold water as well as tempered oil
- Optionally available with straight-through, 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.

**DN 9**



Plug Profile (original size)

## Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034 • O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

European  
Plug Profile

Also in  
Stainless Steel  
Series ESHME  
page 311

## Couplings with hose connection

### Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61.5	22	25	13	7	72	ESH 9 TL	ESH 9 TLAB
Hose i.D. 13	61.5	22	25	13	9	81		ESH 13 TLAB
Hose i.D. 13	61.5	22	25	13	9	81	ESH 13 TL	

### Coupling with straight quick-fit hose stem without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	64.5	22	28	13	7	76	ESH 10 T	ESH 10 TAB
Hose i.D. 13	64.5	22	28	13	9	84	ESH 13 T	ESH 13 TAB

### Couplings with 45° standard hose stem without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13	7	103	ESH 9 TL-45	ESH 9 TL-45AB
Hose i.D. 13	51	22	30	13	9	109	ESH 13 TL-45	ESH 13 TL-45AB

### Coupling with 45° quick-fit hose stem without/ with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	51	22	33	13	7	108	ESH 10 T-45	ESH 10 T-45AB
Hose i.D. 13	51	22	33	13	9	111	ESH 13 T-45	ESH 13 T-45AB

### Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13	7	105	ESH 9 TL-90	ESH 9 TL-90AB
Hose i.D. 13	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 connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	51	22	33	13	7	110	ESH 10 T-90	ESH 10 T-90AB
Hose i.D. 13	51	22	33	13	9	113	ESH 13 T-90	ESH 13 T-90AB

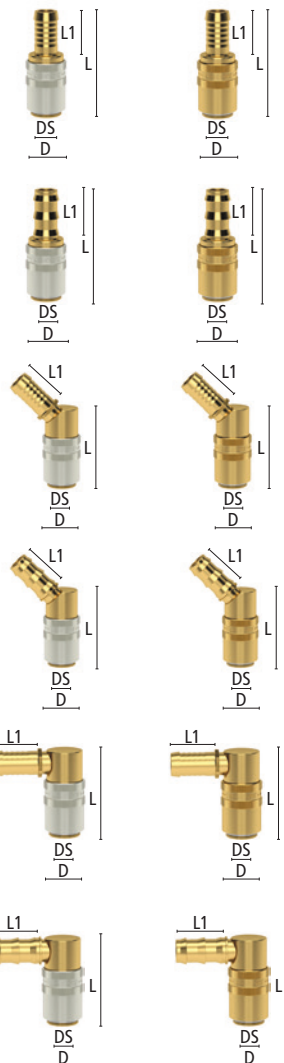
## Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10
For Hose i.D. 13	20	blue	50	0.7	AR-BL 13
For Hose i.D. 13	20	red	50	0.7	AR-RO 13
For Hose i.D. 13	20	yellow	50	0.7	AR-GE 13

Simply put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 414 - 417)

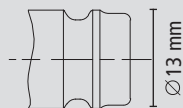
**Safety instruction:** Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!



# Temperature Regulation Quick Connect Couplings

## Series ESH plug size 13 mm

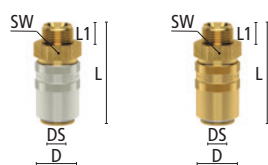
**DN9**



Plug profile (original size)

### Couplings with thread connection

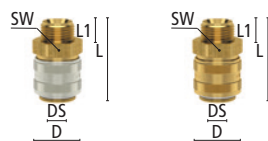
#### Couplings with straight male thread without/with valve (inner cone DIN 3863)



Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	22	22	9	13	9	90	ESH 14 A	ESH 14 AAB
M 14x1.5 m	56	22	22	11	13	9	90	ESH 1415 A	ESH 1415 AAB
G 3/8 m	52	22	22	9	13	9	94	ESH 38 A	ESH 38 AAB
M 16x1.5 m	52	22	22	9	13	9	93	ESH 1615 A	ESH 1615 AAB
G 1/2 m	53	24	22	10	13	9	95	ESH 12 A	ESH 12 AAB
G 3/8 m	56	22	22	11	13	9	105	ESH 38 AL*	ESH 38 ALAB*
G 1/2 m	57	24	22	14	13	9	110	ESH 12 AL*	ESH 12 ALAB*
M 16x1.5 m	56	22	22	13	13	9	105	ESH 1615 AL*	ESH 1615 ALAB*
M 18x1.5 m	54	22	22	11	13	9	105	ESH 1815 A	ESH 1815 AAB

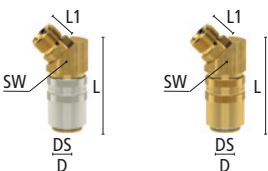
NEW!

#### Couplings with straight male thread (short version) with valve



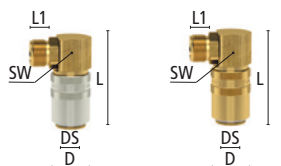
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	38	22	22	9	13	9	61	ESH 38 AK	ESH 38 AKAB

#### Couplings with 45° male thread without/with valve (inner cone DIN 3863)



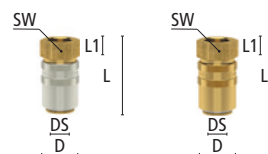
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
M 14x1.5 m	56	22	22	11	13	9	114	ESH 1415 A-45	ESH 1415 A-45AB
G 3/8 m	54	22	22	9	13	9	114	ESH 38 A-45	ESH 38 A-45AB
M 16x1.5 m	54	22	22	9	13	9	114	ESH 1615 A-45	ESH 1615 A-45AB
G 3/8 m	58	22	22	11	13	9	125	ESH 38 AL-45*	ESH 38 AL-45AB*

#### Couplings with 90° male thread without/with valve (inner cone DIN 3863)



Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
M 14x1.5 m	56	22	22	11	13	8	126	ESH 1415 A-90	ESH 1415 A-90AB
G 3/8 m	54	22	22	9	13	9	126	ESH 38 A-90	ESH 38 A-90AB
M 16x1.5 m	54	22	22	9	13	9	126	ESH 1615 A-90	ESH 1615 A-90AB
G 3/8 m	58	22	22	11	13	9	125	ESH 38 AL-90*	ESH 38 AL-90AB*

#### Couplings with straight female thread without/with valve



Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	22	9	13	9	75	ESH 14 I	ESH 14 IAB
G 3/8 f	46	22	22	9	13	9	110	ESH 38 I	ESH 38 IAB
G 1/2 f	49	24	22	12	13	9	110	ESH 12 I	ESH 12 IAB

#### Couplings with Plugs DN 6 - ESHM - System Adaptor and ESH-ESD System Adaptor



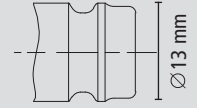
Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 9 - DN 6	51	22	14	13	6	straight	100	ESHK-ESHMS	ESHK-ESHMS-AB
DN 9 - DN 6	51	22	14	13	6	45°	100	ESHK-ESHMS-45	ESHK-ESHMS-45AB
DN 9 - DN 6	51	22	14	13	6	90°	100	ESHK-ESHMS-90	ESHK-ESHMS-90AB
DN 9 - DN 6	51	22	10.5	13	6	straight	85	ESHK-ESDMS	ESHK-ESDMS-AB
DN 9 - DN 9	51	22	15.5	13	9	straight	100	ESHK-ESDS	ESHK-ESDS-AB

\*Version AL with longer male thread mainly used for assembly with Ermeto-screwings

# Temperature Regulation Quick Connect Couplings

plug size 13 mm **Series ESH**

**DN9**



Plug Profile (original size)

## Diversion coupling for temperature regulation bridges with 90° tube connection without/ with valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 10/8	53	22	13	9	118	ESH 10-U	ESH 10-UAB

## Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 10/8	250	10	8	60	TR 250-10
Tube 10/8	500	10	8	120	TR 500-10

## Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	37	22	13	67	ESH-B

## Plugs

### Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 9	39.5	14.5	22.5	14	13	7	23	ESH 9 SL
Hose i.D. 13	39.5	16	25	14	13	9	25	ESH 13 SL
Hose i.D. 13	53	20.5	36	14	13	9	29	ESH 13 SP**

### Plugs with quick-fit hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 10	43.5	14.5	28	14	13	7	24	ESH 10 S
Hose i.D. 13	43.5	16	28	14	13	9	26	ESH 13 S

### Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	24	15	7	14	13	6	16	ESH 18 NA*
G 1/4 m	26	15	9	14	13	9	17	ESH 14 NA*
G 3/8 m	26	17	9	14	13	9	22	ESH 38 NA*
G 1/2 m	31	22	12	14	13	9	42	ESH 12 NA*
G 3/4 m	35	27	16	14	13	9	110	ESH 34 NA*
M 10x1 m	24	15	7	14	13	6.5	14	ESH 101 NA
M 14x1.5 m	26	15	9	14	13	9	16	ESH 1415 NA
M 16x1.5 m	26	17	9	14	13	9	20	ESH 1615 NA
M 18x1.5 m	26	19	9	14	13	9	25	ESH 1815 NA

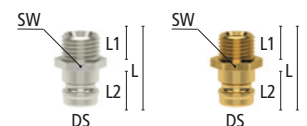
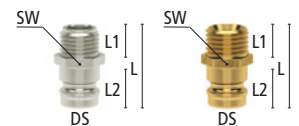
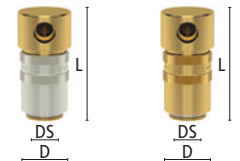
### Plugs with straight male thread with inner Hexagon without valve

Thread	L	SW	L1	L2	DS	Passage	Weight	Version	Type No.
G 1/4 m	26	15	9	14	13	9	17	SW8.17mm depth	ESH 14 NAIB*
M 14x1.5 m	26	15	9	14	13	9	16	SW8.17mm depth	ESH 1415 NAIB

For easy assembly with key countersunk in the tool

\*Plugs with inch thread nickel-plated for simple distinction

\*\*ferrule crimping



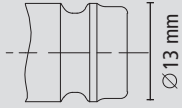
NEW!



# Temperature Regulation Quick Connect Couplings

## Series ESH plug size 13 mm

**DN9**



Plug Profile (original size)



### Plugs with straight female thread without valve

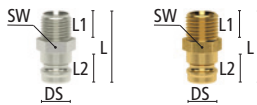
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 3/8 f	33	19	10	14	13	9	42	ESH 38 NI*
G 1/2 f	35	19	10	14	13	9	55	ESH 12 NI*

### Plugs with 90° male thread without valve (metrical thread DIN 158/ conical thread DIN 2999)



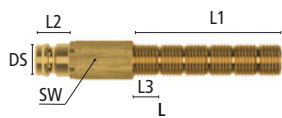
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/4 m	34	17	11	25	13	9	45	ESH 14 NA-90*
M 14x1.5 m	34	17	11	25	13	9	47	ESH 1415 NA-90
R 3/8 m	35	17	12	25	13	9	45	ESH 38 NA-90*

### Plugs with straight male thread with valve



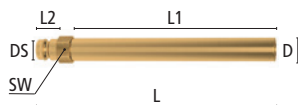
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	11	14	13	6	24	ESH 14 NAAB*
G 3/8 m	31	17	12	14	13	9	28	ESH 38 NAAB*
G 1/2 m	31	22	12	14	13	9	48	ESH 12 NAAB*
M 14x1.5 m	30	15	11	14	13	6	26	ESH 1415 NAAB
M 16x1.5 m	31	17	12	14	13	9	28	ESH 1615 NAAB
M 18x1.5 m	30	19	12	14	13	9	30	ESH 1815 NAAB

### Plugs with straight male long thread without valve (for length cutting as needed)



Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/4 m	100	14	60	14	10	13	9	60	ESH 14-60 NA
G 1/4 m	57	15	34	14	16	13	9	38	ESH 14 NAL18
G 1/4 m	110	15	87	14	16	13	9	75	ESH 14 NAL71
G 3/8 m	100	17	60	14	10	13	9	91	ESH 38-60 NA
M 14x1.5 m	100	14	60	14	10	13	9	55	ESH 1415-60 NA
M 16x1.5 m	100	17	60	14	10	13	9	93	ESH 1615-60 NA

### Plug Tubes for countersunk mould threads



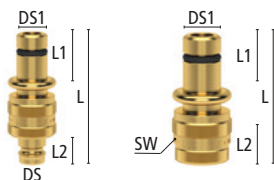
D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	14	13	9	114	ESH 150 R
14	300	15	277	14	13	9	210	ESH 300 R
10	150	11	127	14	13	6	65	ESH 150 R-10



### Plug System - Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 9-DN 6	34	14	14	14	9	13	6	18	ESH-ESHM
DN 9-DN 9	34	14	14	14	13	13	9	24	ESH-ESH

### Plugs with counterpart system "ARBURG" – System Adapters



System	Thread	L	SW	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 5 ESH-Arburg	-	64	-	22	14	13	14.8	9	77	ESH-ARB
Arburg	G 1/4 f	50	21	22	14	-	14.8	9	85	ARB 14 NI
Arburg	G 3/8 f	50	21	22	14	-	14.8	9	84	ARB 38 NI

Protection cap (plastic) for plug profile ESH 100 ESH-K

\*Plugs with inch thread nickel-plated for simple distinction

# Temperature Regulation Quick Connect Couplings

plug size 13 mm – High Resistant Special Brass **Series ESHT**

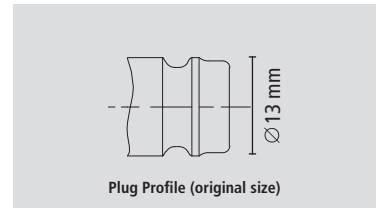
with Automatic Locking Mechanism

**DN9**

- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of high resistant special brass
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optionally available with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

## Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- O-rings: Special-Hitec-FKM-O-ring
- Balls: Stainless steel 1.4034



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



European  
Plug Profile

Also in  
Stainless Steel  
Series ESHT  
page 313

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	5

## Couplings with hose connection

### Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	63	23.5	25	13	9	81	ESHT 13 TL	ESHT 13 TLAB

### Couplings with 45° standard hose stem without/with valve

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55	22	23.5	25	13	9	138	ESHT 13 TL45	ESHT 13 TL45AB

### Couplings with 90° standard hose stem without/with valve

Hose connection	L	SW	D	L1	D	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55	22	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 connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55	22	23.5	12.5	13	9	94	ESHT38AL	ESHT38ALAB
M 16x1.5 m	55	22	23.5	12.5	13	9	93	ESHT1615AL	ESHT1615ALAB

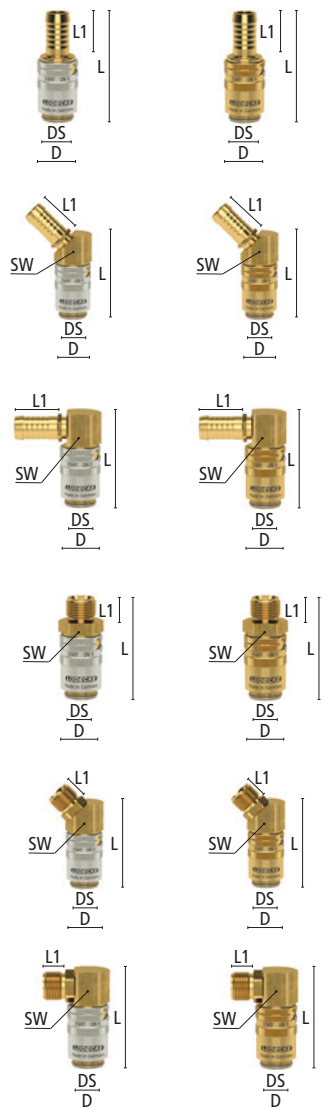
### Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55	22	23.5	12.5	13	9	134	ESHT38AL45	ESHT38AL45AB
M 16x1.5 m	55	22	23.5	12	13	9	132	ESHT1615AL45	ESHT1615AL45AB

### Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55	22	23.5	12.5	13	9	134	ESHT38AL90	ESHT38AL90AB
M 16x1.5 m	55	22	23.5	12	13	9	132	ESHT1615AL90	ESHT1615AL90AB

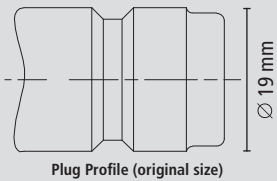
Other types / sizes on request!



# Temperature Regulation Quick Connect Couplings

## Series ESHG plug size 19 mm

**DN 13**



European  
Plug Profile

- For temperature regulation applications with hot or cold water as well as tempered oil.
- Optional with straight-through, 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.

### Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- O-rings: FKM (PTFE-coated)
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	13	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 1 / Plug 5

### Couplings with hose connection

#### Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	83	31	25	19	9	200	ESHG 13 TL	ESHG 13 TLAB
Hose i.D. 19	92	31	34	19	13	222	ESHG 19 TL	ESHG 19 TLAB

#### Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 16	96	31	38	19	13	222	ESHG 16 T	ESHG 16 TAB
Hose i.D. 19	96	31	38	19	13	240	ESHG 19 T	ESHG 19 TAB

#### Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 16	82	31	38	19	13	320	ESHG 16 T-45	ESHG 16 T-45AB

#### Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 16	82	31	38	19	13	320	ESHG 16 T-90	ESHG 16 T-90AB

#### Couplings with straight hose stem – short version without one-hand principle and without valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 19	71	31	34	19	13	170	ESHG 19 TLK	ESHG 19 TL-90AB

#### Couplings with straight quick fit hose stem – short version without one-hand principle and without valve

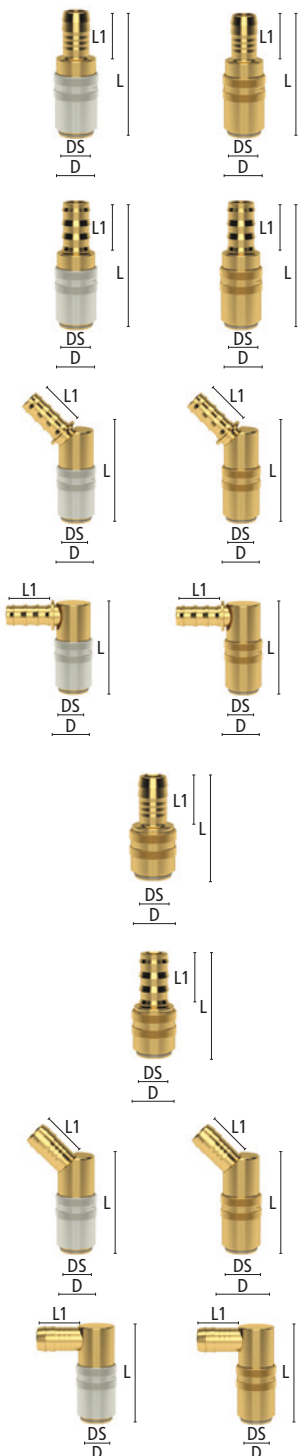
Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve
Hose i.D. 16	75	31	38	19	13	163	ESHG 16 TK
Hose i.D. 19	75	31	38	19	13	180	ESHG 19 TK

#### Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 19	78	31	36	19	13	305	ESHG 19 TL-45	ESHG 19 TL-45AB

#### Couplings with 90° standard hose stem without/with valve

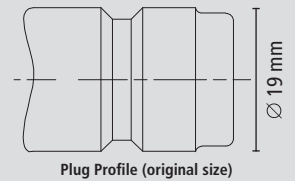
Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 19	78	31	34	19	13	310	ESHG 19 TL-90	ESHG 19 TL-90AB



# Temperature Regulation Quick Connect Couplings

## plug size 19 mm **Series ESHG**

**DN 13**



### Couplings with thread connection

#### Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/2 m	74	30	31	12	19	13	228	ESHG 12 A	ESHG 12 AAB
M 24x1.5 m	78	30	31	16	19	13	250	ESHG 2415 A	ESHG 2415 AAB
G 3/4 m	78	30	31	16	19	13	250	ESHG 34 A	ESHG 34 AAB

#### Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
M 24x1.5 m	80	30	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 connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
M 24x1.5 m	80	30	31	18	19	13	338	ESHG 2415 A-90	ESHG 2415 A-90AB

#### Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/4 m	78	33	31	16	19	13	270	ESHG 34 I	ESHG 34 IAB

#### Diversion coupling for temperature regulation bridges with 90° tube connection without/ with valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 14/12	80	31	19	12	350	ESHG 14-U	ESHG 14-UAB

#### Tube (chamfered) for diversion couplings (temperature regulation tube) hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 14/12	500	14	12	170	TR 500-14

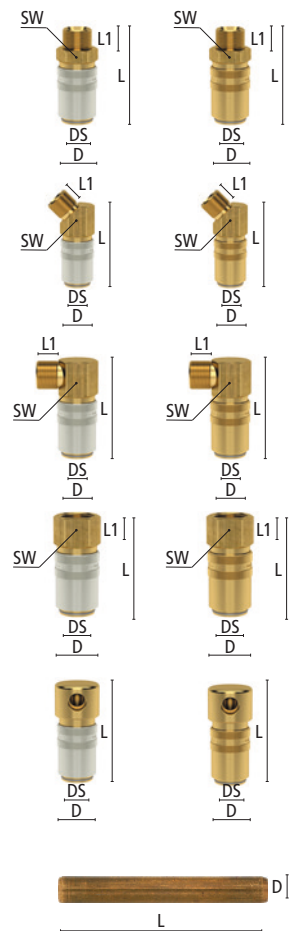
#### Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Color	Weight	Type No.
For Hose i.D. 16	25	blue	10	AR-BL 16
For Hose i.D. 16	25	red	10	AR-RO 16
For Hose i.D. 16	25	yellow	10	AR-GE 16

Simply put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 414 - 417)

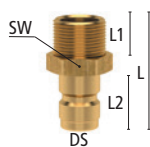
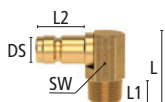
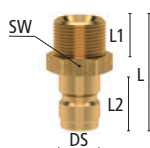
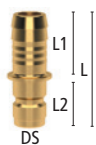
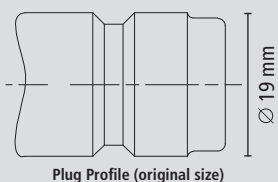
**Safety instruction:** Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!



# Temperature Regulation Quick Connect Couplings

## Series ESHG plug size 19 mm

### DN 13



#### Plugs

##### Plugs with standard hose stem without valve

Hose connection	L	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 13	54	25	27	19	9	52	ESHG 13 SL
Hose i.D. 19	63	34	27	19	13	81	ESHG 19 SL

##### Plugs with quick-fit hose stem without valve

Hose connection	L	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 16	67	38	27	19	13	63	ESHG 16 S
Hose i.D. 19	67	38	27	19	13	93	ESHG 19 S

##### Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/2 m	47	22	12	27	19	13	64	ESHG 12 NA*
G 3/4 m	51	27	16	27	19	13	107	ESHG 34 NA*
M 24x1.5 m	51	27	16	27	19	13	97	ESHG 2415 NA

##### Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

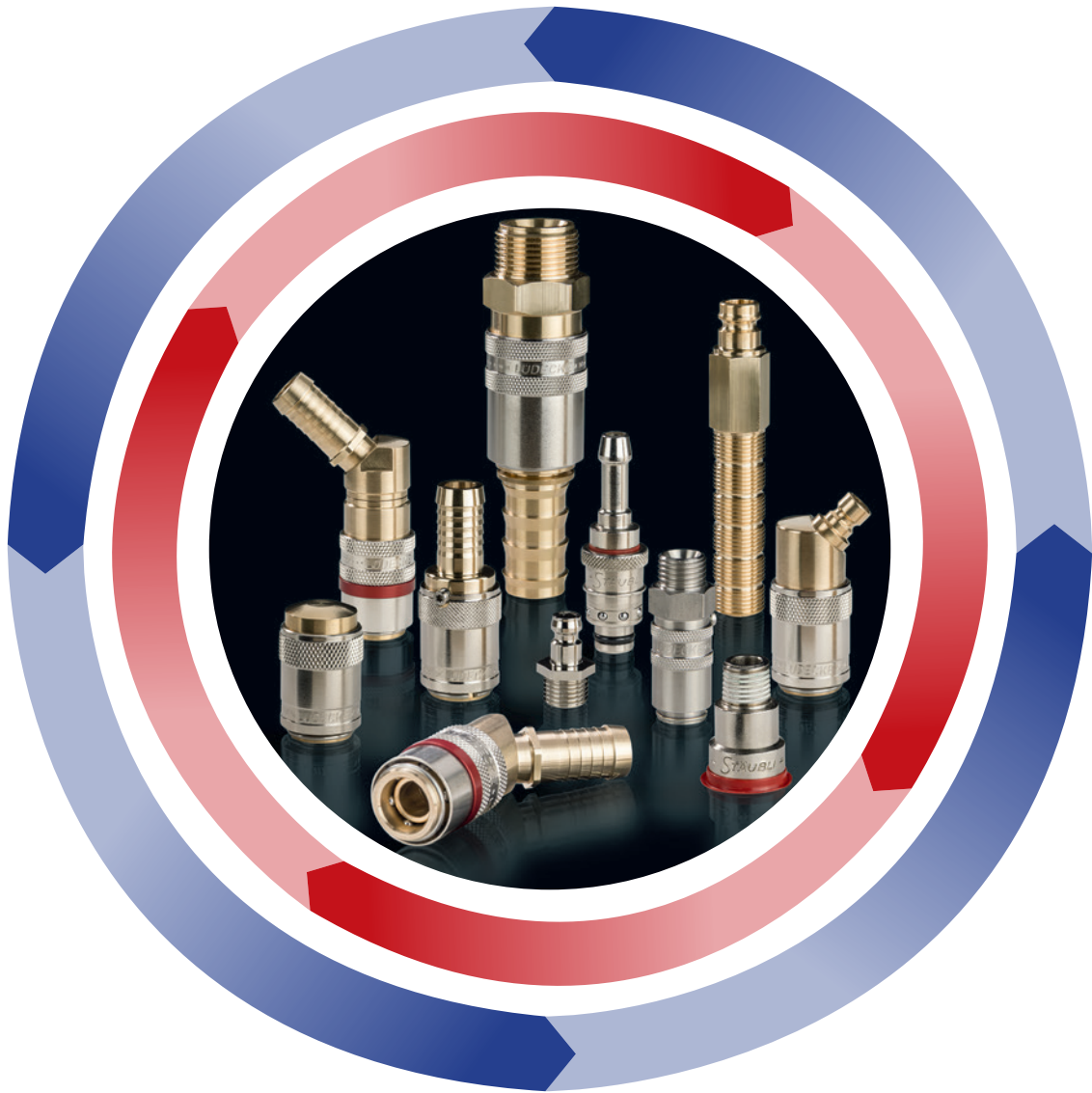
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/2 m	47	24	16	27	19	13	100	ESHG 12 NA-90*
M 24x1.5 m	47	24	16	27	19	13	105	ESHG 2415 NA-90

##### Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/2 m	47	22	12	27	19	13	84	ESHG 12 NAAB*
G 3/4 m	51	27	16	27	19	13	90	ESHG 34 NAAB*
M 24x1.5 m	51	27	16	27	19	13	86	ESHG 2415 NAAB

Protection cap (plastic) for plug profile ESHG  100 ESHG-K

\*Plugs with inch thread nickel-plated for simple distinction



# Temperature Regulation Quick Connect Couplings

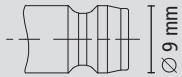
## Series ESHME plug size 9 mm - Stainless Steel 1.4305

**DN 6**

- For temperature regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optional with straight-through, 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)



Plug Profile (original size)

### European Plug Profile



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 1 / Plug 5

### Couplings with hose connection

#### Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	53	17	22.5	9	6	45	ESHME 9 TL	ESHME 9 TLAB

#### Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	42.5	17	25.5	9	6	62	ESHME 9 TL-45	ESHME 9 TL-45AB

#### Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	42.5	17	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 connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	48	17	17	9	9	6	60	ESHME 14 A	ESHME 14 AAB
M 14x1.5 m	48	17	17	9	9	6	60	ESHME 1415 A	ESHME 1415 AAB

#### Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	47	16	17	9	9	6	65	ESHME 14 A-45	ESHME 14 A-45AB
M 14x1.5 m	47	16	17	9	9	6	65	ESHME 1415 A-45	ESHME1415A-45AB

#### Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	47	16	17	9	9	6	75	ESHME 14 A-90	ESHME 14 A-90AB
M 14x1.5 m	47	16	17	9	9	6	75	ESHME 1415 A-90	ESHME1415A-90AB

Safe connection of individual coupling parts due to special glue and additional FKM-O-ring sealing.

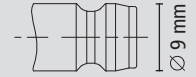
### Other types / sizes on request!

Suitable hose clips (☺ page 416), double-ear hose clips (☺ page 414) or crimping ferrules for standard hoses (☺ page 418)

# Temperature Regulation Quick Connect Couplings

plug size 9 mm - Stainless Steel 1.4305 **Series ESHME**

**DN6**



Plug Profile (original size)

## Plugs

### Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 9	39.5	12	22.5	14	9	6	13	ESHME 9 SL



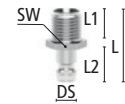
### Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	24	11	7	14	9	6	10	ESHME 18 NA
G 1/4 m	26	15	9	14	9	6	14	ESHME 14 NA
G 3/8 m	27	17	9	14	9	6	18	ESHME 38 NA
M 8x0.75 m	24	11	7	14	9	4.5	9	ESHME 875 NA
M 10x1 m	24	11	7	14	9	6	8	ESHME 101 NA
M 14x1.5 m	26	15	9	14	9	6	14	ESHME 1415 NA
M 16x1.5 m	26	17	9	14	9	6	18	ESHME 1615 NA



### Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	29	15	12	14	9	6	14	ESHME 14 NAAB
G 3/8 m	30	17	12	14	9	6	22	ESHME 38 NAAB
M 14x1.5 m	29	15	12	14	9	6	15	ESHME 1415 NAAB



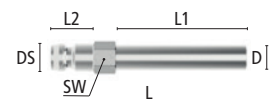
### Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 - DN 6	34	12	14	14	9	9	6	15	ESHME-ESHME
DN 6 - DN 9	34	14	14	14	9	13	6	19	ESHME-ESHE



### Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	9	42	14	9	6	14	ESHME 63 R
8	100	9	79	14	9	6	20	ESHME 100 R
10	120	11	99	14	9	6	49	ESHME 120 R

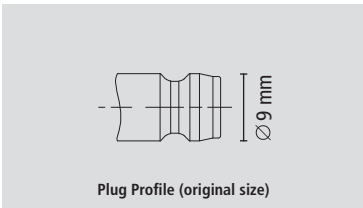




# Temperature Regulation Quick Connect Couplings

## Series ESHMTE plug size 9 mm – Stainless Steel with Automatic Locking Mechanism

**DN6**



European Plug Profile



- Forced guidance design with visual colour coding at the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of stainless steel
- For temperature regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optional with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

**Materials**

- Body, sleeve, valve body, valve, plug: stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Special-Hitec-FKM-O-ring

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5

**Couplings with hose connection**

**Couplings with straight standard hose stem without/with valve**

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61	18	22.5	9	6	54	ESHMTE 9 TL	ESHMTE 9 TLAB

**Couplings with 45° standard hose stem without/with valve**

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	54	18	22.5	9	6	79	ESHMTE 9 TL45	ESHMTE 9 TL45AB

**Couplings with 90° standard hose stem without/with valve**

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	56	18	22.5	9	6	88	ESHMTE 9 TL90	ESHMTE 9 TL90AB

**Couplings with male threads**

**Couplings with straight male thread without/with valve (inner cone DIN 3863)**

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	56.5	17	18	11	9	6	67	ESHMTE14AL	ESHMTE14ALAB
M 14x1.5 m	56.5	17	18	11	9	6	68	ESHMTE1415AL	ESHMTE1415ALAB

**Couplings with 45° male thread without/with valve (inner cone DIN 3863)**

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	17	18	11	9	6	83	ESHMTE14AL45	ESHMTE14AL45AB
M 14x1.5 m	52	17	18	11	9	6	84	ESHMTE1415AL45	ESHMTE1415AL45AB

**Couplings with 90° male thread without/with valve (inner cone DIN 3863)**

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	56	17	18	11	9	6	92	ESHMTE14AL90	ESHMTE14AL90AB
M 14x1.5 m	56	17	18	11	9	6	93	ESHMTE1415AL90	ESHMTE1415AL90AB

other types / sizes on request!

# Temperature Regulation Quick Connect Couplings

## plug size 13 mm – Stainless Steel 1.4305 **Series ESHE**

- For temperature regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optional with straight-through, 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 ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 1 / Plug 5

### Couplings with hose connection

#### Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	61.5	22	25	13	9	81	ESHE 13 TL	ESHE 13 TLAB

#### Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	51	22	30	13	9	109	ESHE 13 TL-45	ESHE 13 TL-45AB

#### Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	51	22	30	13	9	111	ESHE 13 TL-90	ESHE 13 TL-90AB

### Couplings with thread connection

#### Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	52	22	22	9	13	9	94	ESHE 38 A	ESHE 38 AAB
M 16x1.5 m	52	22	22	9	13	9	93	ESHE 1615 A	ESHE 1615 AAB

#### Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	19	22	9	13	9	114	ESHE 38 A-45	ESHE 38 A-45AB
M 16x1.5 m	54	19	22	9	13	9	114	ESHE 1615 A-45	ESHE 1615 A-45AB

#### Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	19	22	9	13	9	126	ESHE 38 A-90	ESHE 38 A-90AB
M 16x1.5 m	54	19	22	9	13	9	126	ESHE 1615 A-90	ESHE 1615 A-90AB

#### Couplings with straight female thread without/ with valve

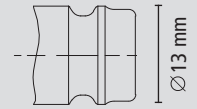
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	22	9	13	9	102	ESHE 14 I	ESHE 14 IAB
G 3/8 f	46	22	22	9	13	9	104	ESHE 38 I	ESHE 38 IAB

Safe connection of individual coupling parts due to special glue and additional FKM-O-ring sealing.

Other types / sizes on request!

Suitable hose clips (☺ page 416), double-ear hose clips (☺ page 414) or crimping ferrules for standard hoses (☺ page 418)

**DN9**



Plug Profile (original size)

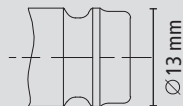
**European  
Plug Profile**



# Temperature Regulation Quick Connect Couplings

## Series ESHE plug size 13 mm – Stainless Steel 1.4305

**DN9**



Plug Profile (original size)



### Plugs

#### Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 13	39.5	16	25	14	13	9	25	ESHE 13 SL

#### Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	26	15	9	14	13	9	17	ESHE 14 NA
G 3/8 m	26	17	9	14	13	9	22	ESHE 38 NA
G 1/2 m	31	22	12	14	13	9	22	ESHE 12 NA
M 14x1.5 m	26	15	9	14	13	9	16	ESHE 1415 NA
M 16x1.5 m	26	17	9	14	13	9	20	ESHE 1615 NA



#### Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	11	14	13	9	21	ESHE 14 NAAB
G 3/8 m	29	17	12	14	13	9	23.5	ESHE 38 NAAB
M 16x1.5 m	29	17	12	14	13	9	23	ESHE 1615 NAAB



#### Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 9	34	14	14	14	9	13	6	19	ESHME-ESHE
DN 9 – DN 9	34	14	14	14	13	13	9	25	ESHE-ESHE



#### Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	14	13	9	109	ESHE 150 R



# Temperature Regulation Quick Connect Couplings

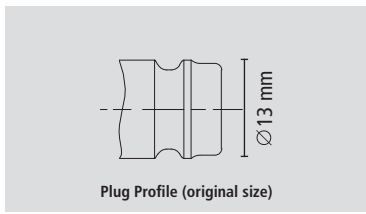
plug size 13 mm – Stainless Steel with Automatic Locking Mechanism **Series ESHTe**

- Forced guidance design with visual colour coding at the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of stainless steel
- For Temperature Regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optional with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

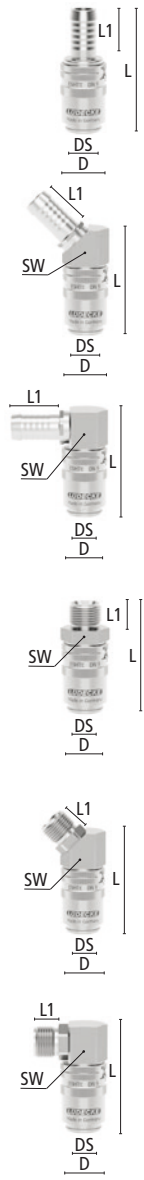
**Materials**

- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-Rings: Special-Hitec-FKM-O-ring

**DN9**



European Plug Profile



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5

**Couplings with hose connection**

**Couplings with straight standard hose stem without/with valve**

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	63	23.5	25	13	9	77	ESHTe 13 TL	ESHTe 13 TLAB

**Couplings with 45° standard hose stem without/with valve**

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55.5	22	23.5	25	13	9	134	ESHTe 13 TL45	ESHTe 13 TL45AB

**Couplings with 90° standard hose stem without/with valve**

Hose connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	55.5	22	23.5	25	13	9	134	ESHTe 13 TL90	ESHTe 13 TL90AB

**Couplings with male thread**

**Couplings with straight male thread without/with valve (inner cone DIN 3863)**

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	56	22	23.5	12.5	13	9	95	ESHTe38AL	ESHTe38ALAB
M 16x1.5 m	56	22	23.5	12.5	13	9	94	ESHTe1615AL	ESHTe1615ALAB

**Couplings with 45° male thread without/with valve (inner cone DIN 3863)**

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55.5	22	23.5	12.5	13	9	131	ESHTe38AL45	ESHTe38AL45AB
M 16x1.5 m	55.5	22	23.5	12.5	13	9	129	ESHTe1615AL45	ESHTe1615AL45AB

**Couplings with 90° male thread without/with valve (inner cone DIN 3863)**

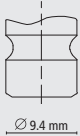
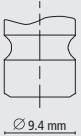
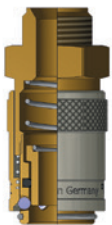

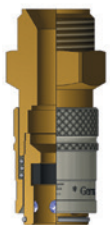


Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55.5	22	23.5	12.5	13	9	131	ESHTe38AL90	ESHTe38AL90AB
M 16x1.5 m	55.5	22	23.5	12.5	13	9	129	ESHTe1615AL90	ESHTe1615AL90AB

Other sizes on request

\*depends on media (Oil: 200°C, Water: 160°C, Air: 200°C)

# Overview of the Quick Connect Couplings with

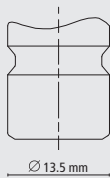


Series	ESDM DN 6	ESDMT DN 6	ESDMF DN 6
Plug profile (original size)			
			
			
<b>Materials:</b>			
<b>Body:</b>	Brass MS 58 plain	Brass MS 58 plain	Brass MS 58 plain
<b>Sleeve*:</b>	Brass MS 58 (plain/nickel-pl.)	hrsb (plain/nickel-plated)	Brass MS 58 (plain/ nickel-plated)
<b>Valve Body:</b>	Brass MS 58 plain	Brass MS 58 plain	Brass MS 58 plain
<b>Valve:</b>	Brass MS 58 plain	Brass MS 58 plain	Brass MS 58 plain
<b>Springs, Retaining Ring:</b>	Stainless steel 1.4310	Stainless steel 1.4310	Stainless steel 1.4310
<b>Balls:</b>	Stainless steel 1.4034	Stainless steel 1.4034	Stainless steel 1.4034
<b>Seals:</b>	Spezial-Hitec-FKM-O-Ring	Special-Hitec-FKM-O-ring	FKM (flat sealing)
<b>Special seals for other media on request:</b>	EPDM, FFKM	EPDM, FFKM	
<b>Plug:</b>	Brass MS 58 (plain/nickel-pl.)	Brass MS 58 (plain/nickel-pl.)	Brass MS 58 (plain/nickel-pl.)
<b>Max. Working Pressure:</b>	PN 15 bar	PN 15 bar	PN 15 bar
<b>Temperature:</b>	-20°C– +200°C**	-20°C– +200°C***	-20°C– +200°C**
<b>Thread Types:</b>	ISO 228, DIN 13	ISO 228, DIN 13	ISO 228, DIN 13
<b>Flow rate:</b>	see chart p. 143	see chart p. 143	see chart p. 143
<b>Connection:</b>	straight/45°/90°	straight/45°/90°	straight/45°/90°
<b>Type of Valve:</b>	single/double/straight-through	single/double/straight-through	single/double/straight-through
<b>Operation:</b>	One-hand	One-hand	Two-hands
<b>Page:</b>	170	174	175

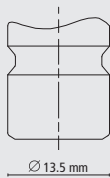
# International Plug Profiles



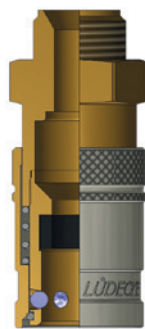
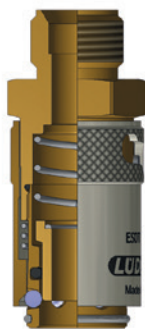
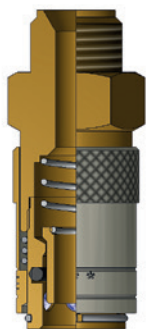
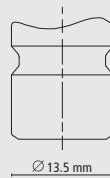
**ESD**  
DN 9



**ESDT**  
DN 9



**ESDF**  
DN 9



Brass MS 58 plain  
Brass MS 58 (plain/nickel-plated)  
Brass MS 58 plain  
Brass MS 58 plain

Stainless steel 1.4310  
Stainless steel 1.4034

Special-Hitec-FKM-O-ring

EPDM, FFKM

Brass MS 58 (plain/nickel-pl.)

PN 15 bar

-20°C– +200°C\*\*

ISO 228, DIN 13

see chart p. 143

straight/45°/90°

single/double/straight-through

One-hand

179

Brass MS 58 plain  
hrsb (plain/nickel-plated)  
Brass MS 58 plain  
Brass MS 58 plain

Stainless steel 1.4310  
Stainless steel 1.4034

Special-Hitec-FKM-O-ring

EPDM, FFKM

Brass MS 58 (plain/nickel-pl.)

PN 15 bar

-20°C– +200°C\*\*\*

ISO 228, DIN 13

see chart p. 143

straight/45°/90°

single/double/straight-through

Two-hands

183

Brass MS 58 plain  
Brass MS 58 (plain/nickel-plated)  
Brass MS 58 plain  
Brass MS 58 plain

Stainless steel 1.4310  
Stainless steel 1.4034

FKM (flat sealing)

Brass MS 58 (plain/nickel-pl.)

PN 15 bar

-20°C– +200°C\*\*

ISO 228, DIN 13

see chart p. 143

straight/45°/90°

single/double/straight-through

Two-hands

184

\*coupling with valve: Brass MS plain, coupling without valve: Brass MS nickel-plated

\*\*subject to media (oil: 200°C, water: 150°C, air: 200°C)

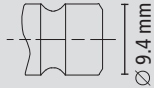
\*\*\*subject to media (oil: 200°C, water: 160°C, air: 200°C)

hrsb: High Resistant Special Brass

# Temperature Regulation Quick Connect Couplings

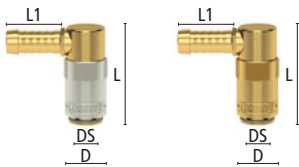
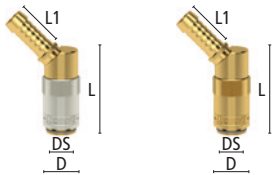
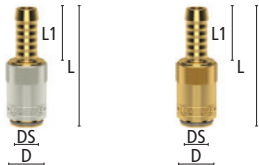
## Series ESDM plug size 9.4 mm

**DN6**



Plug Profile (original size)

**International Plug Profile**



- Couplings with O-ring-Sealing and one-hand operation
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off
- 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.

### Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

### Couplings with hose connection

#### Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	51	17	22.5	9.4	5	40	ESDM 6 TL	ESDM 6 TLAB
Hose i.D. 9	51	17	22.5	9.4	6	45	ESDM 9 TL	
Hose i.D. 9	51	17	22.5	9.4	6	45		ESDM 9 TLAB
Hose i.D. 13	53	17	25	9.4	6	54	ESDM 13 TL	ESDM 13 TLAB

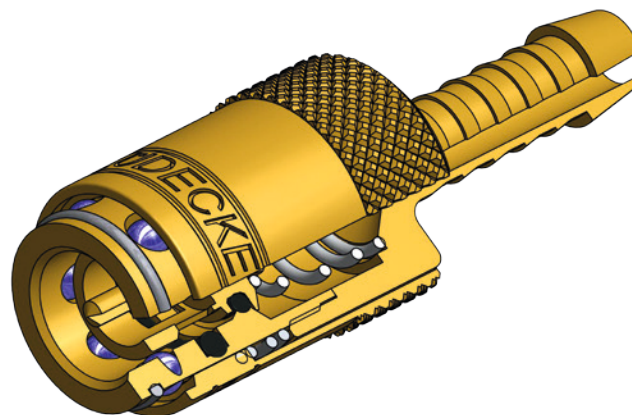
#### Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	17	25.5	9.4	5	58	ESDM 6 TL-45	ESDM 6 TL-45AB
Hose i.D. 9	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 connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	17	25.5	9.4	5	58	ESDM 6 TL-90	ESDM 6 TL-90AB
Hose i.D. 9	40.5	17	25.5	9.4	6	62	ESDM 9 TL-90	ESDM 9 TL-90AB

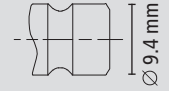
Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses – (© page 414 - 417)



# Temperature Regulation Quick Connect Couplings

## plug size 9.4 mm **Series ESDM**

**DN6**



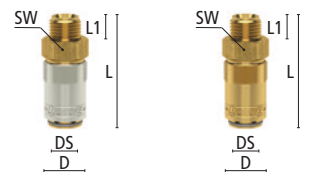
Plug Profile (original size)

### Couplings with thread connection

#### Couplings with straight male thread without/with valve (inner cone DIN 3863)

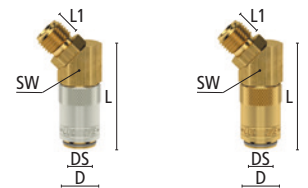
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	46	17	17	9	9.4	6	60	ESDM 14 A	ESDM 14 AAB
G 3/8 m	46	19	17	9	9.4	6	70	ESDM 38 A	ESDM 38 AAB
M 10x1 m	44	17	17	7	9.4	6	60	ESDM 101 A	ESDM 101 AAB
M 14x1.5 m	46	17	17	9	9.4	6	60	ESDM 1415 A	ESDM 1415 AAB
M 16x1.5 m	46	19	17	9	9.4	6	70	ESDM 1615 A	ESDM 1615 AAB
G 1/4 m	50	17	17	13	9.4	6	61	ESDM 14 AL	ESDM 14 ALAB
G 3/8 m	50	19	17	13	9.4	6	75	ESDM 38 AL	ESDM 38 ALAB
M 14x1.5 m	50	17	17	13	9.4	6	65	ESDM 1415 AL	ESDM 1415 ALAB

Version AL with longer male thread mainly used for assembly with Ermeto screwings.



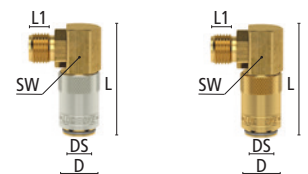
#### Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	65	ESDM 14 A-45	ESDM 14 A-45AB
G 3/8 m	45	19	17	9	9.4	6	75	ESDM 38 A-45	ESDM 38 A-45AB
M 10x1 m	45	17	17	7	9.4	6	65	ESDM 101 A-45	ESDM 101 A-45AB
M 14x1.5 m	45	17	17	9	9.4	6	65	ESDM 1415 A-45	ESDM 1415 A-45AB
M 16x1.5 m	45	19	17	9	9.4	6	75	ESDM 1615 A-45	ESDM 1615 A-45AB



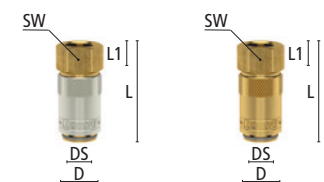
#### Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	75	ESDM 14 A-90	ESDM 14 A-90AB
G 3/8 m	45	19	17	9	9.4	6	85	ESDM 38 A-90	ESDM 38 A-90AB
M 10x1 m	45	17	17	7	9.4	6	75	ESDM 101 A-90	ESDM 101 A-90AB
M 14x1.5 m	45	17	17	9	9.4	6	75	ESDM 1415 A-90	ESDM 1415 A-90AB
M 16x1.5 m	45	19	17	9	9.4	6	85	ESDM 1615 A-90	ESDM 1615 A-90AB



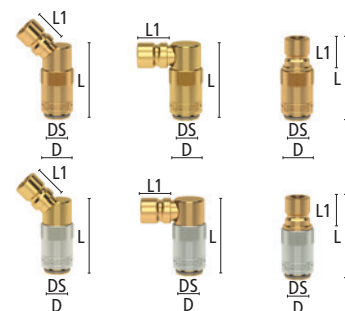
#### Couplings with straight female thread without/with valve

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	40	17	17	9	9.4	6	50	ESDM 14 I	ESDM 14 IAB
G 3/8 f	40	21	17	9	9.4	6	54	ESDM 38 I	ESDM 38 IAB
M 10x1 f	40	17	17	9	9.4	6	50	ESDM 101 I	ESDM 101 IAB
M 14x1.5 f	40	17	17	9	9.4	6	50	ESDM 1415 I	ESDM 1415 IAB



#### Couplings with plug DN 9 - ESDM and ESDM-ESHM System Adapters

Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 6 - DN 9	50.5	17	15.5	9.4	6	straight	75	ESDMK-ESDS	ESDMK-ESDS-AB
DN 6 - DN 9	45	17	15.5	9.4	6	45°	80	ESDMK-ESDS-45	ESDMK-ESDS-45 AB
DN 6 - DN 9	45	17	15.5	9.4	6	90°	80	ESDMK-ESDS-90	ESDMK-ESDS-90 AB
DN 6 - DN 6	50	17	14	9.4	6	straight	70	ESDMK-ESHMS	ESDMK-ESHMS-AB
DN 6 - DN 9	50	17	14	9.4	6	straight	75	ESDMK-ESHS	ESDMK-ESHS-AB

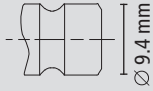




# Temperature Regulation Quick Connect Couplings

## Series ESDM plug size 9.4 mm

### DN6



Plug Profile (original size)



#### Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 8/6	41	17	9.4	6	63	ESDM 8-U	ESDM 8-UAB



#### Tube (chamfered) for diversion couplings (temperature regulation tube). hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 8/6	250	8	6	45	TR 250-8
Tube 8/6	500	8	6	93	TR 500-8



#### Plain End Coupling

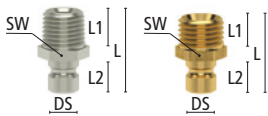
Connection	L	D	DS	Weight	Type No.
closed	30	17	9.4	37	ESDM-B

#### Plugs



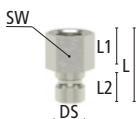
#### Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	39.5	12	22.5	10.5	9.4	5	9	ESDM 6 SL
Hose i.D. 9	39.5	12	22.5	10.5	9.4	6	13	ESDM 9 SL
Hose i.D. 13	39.5	15	22.5	10.5	9.4	6	17	ESDM 13 SL



#### Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	22	11	8	10.5	9.4	6	10	ESDM 18 NA*
R 1/8 m	25	11	11	10.5	9.4	6	12	ESDM 18 NAR*
G 1/4 m	23	14	9	10.5	9.4	6	14	ESDM 14 NA*
R 1/4 m	26	14	12	10.5	9.4	6	16	ESDM 14 NAR*
G 3/8 m	23.5	17	9	10.5	9.4	6	18	ESDM 38 NA*
M 8x0.75 m	20.5	11	7	10.5	9.4	4.5	9	ESDM 875 NA
M 10x1 m	22	11	7	10.5	9.4	6	8	ESDM 101 NA
M 14x1.5 m	23	14	9	10.5	9.4	6	10	ESDM 1415 NA
M 16x1.5 m	23	17	9	10.5	9.4	6	18	ESDM 1615 NA



#### Plugs with straight female thread without valve

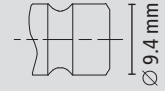
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 f	22	14	9	10.5	9.4	6	15	ESDM 18 NI*
G 1/4 f	23	17	9	10.5	9.4	6	19	ESDM 14 NI*
G 3/8 f	23	19	10	10.5	9.4	6	25	ESDM 38 NI*

\*Plugs with inch thread nickel-plated for simple distinction

# Temperature Regulation Quick Connect Couplings

plug size 9.4 mm **Serie ESDM**

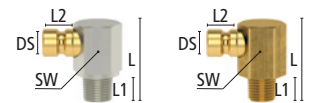
**DN6**



Plug Profile (original size)

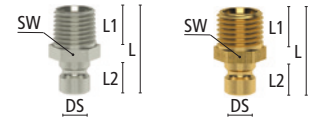
## Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/8 m	27	15	9	10.5	9.4	6	35	ESDM 18 NA-90*
R 1/4 m	29	15	11	10.5	9.4	6	35	ESDM 14 NA-90*
R 3/8 m	30	17	12	10.5	9.4	6	35	ESDM 38 NA-90*
M 8x0.75 m	27	15	9	10.5	9.4	4.5	38	ESDM 875 NA-90
M 10x1 m	27	15	9	10.5	9.4	6	38	ESDM 101 NA-90
M 14x1.5 m	29	15	11	10.5	9.4	6	40	ESDM 1415 NA-90



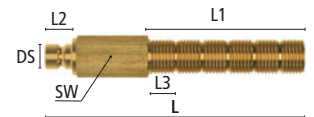
## Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	25.5	14	11	10.5	9.4	6	14	ESDM 14 NAAB*
R 1/4 m	28.5	14	14	10.5	9.4	6	18	ESDM 14 NARAB*
G 3/8 m	26.5	17	11	10.5	9.4	6	22	ESDM 38 NAAB*
M 14x1.5 m	25.5	15	11	10.5	9.4	6	15	ESDM 1415 NAAB



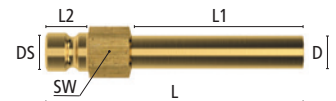
## Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/8 a	100	11	60	10.5	10	9.4	6	36	ESDM 18-60 NA
G 1/4 a	100	14	60	10.5	10	9.4	6	58	ESDM 14-60 NA
G 3/8 a	100	17	60	10.5	10	9.4	6	90	ESDM 38-60 NA
M 10x1 a	100	11	60	10.5	10	9.4	6	36	ESDM 101-60 NA
M 14x1.5 a	100	14	60	10.5	10	9.4	6	61	ESDM 1415-60 NA



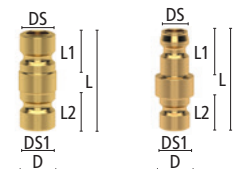
## Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	11	42	10.5	9.4	6	14	ESDM 68 R
8	100	11	79	10.5	9.4	6	20	ESDM 100 R
10	63	11	42	10.5	9.4	6	20	ESDM 63 R10
10	100	11	79	10.5	9.4	6	38	ESDM 100 R10
10	120	11	102	10.5	9.4	6	49	ESDM 120 R



## Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 6	27	10	10.5	10.5	9.4	9.4	6	14	ESDM-ESDM
DN 9 – DN 6	31	14	15.5	10.5	9.4	13.5	6	18	ESD-ESDM
DN 6 – DN 6	31	12	10.5	14	9	9.4	6	14	ESDM-ESHM
DN 6 – DN 9	31	14	10.5	14	13	9.4	6	18	ESDM-ESH
Protection cap (plastic) for plug profile ESDM							100		ESDM-K

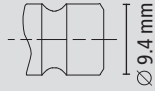


\*Plugs with inch thread nickel-plated for simple distinction

# Temperature Regulation Quick Connect Couplings

**Series ESDMT** plug size 9.4 mm – High Resistant Special Brass  
with Automatic Locking Mechanism

**DN6**



Plug Profile (original size)

- Forced guidance design with visual colour coding at the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of high resistant special brass
- **For Temperature Regulation applications with hot or cold water as well as tempered oil**
- Optionally available with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

**Materials**

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- O-Rings: Special-Hitec-FKM-O-ring
- Balls: Stainless steel 1.4034



International Plug Profile

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5

**Couplings with hose connection**

**Couplings with straight standard hose stem without/with valve**

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	60	18	22.5	9.4	6	55	ESDMT 9 TL	ESDMT 9 TLAB

**Couplings with 45° standard hose stem without/with valve**

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	18	22.5	9.4	6	78	ESDMT 9 TL45	ESDMT 9 TL45AB

**Coupling with 90° standard hose stem without/with valve**

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	55	18	22.5	9.4	6	87	ESDMT 9 TL90	ESDMT 9 TL90AB

**Coupling with male thread**

**Coupling with straight male thread without/with valve (inner cone DIN 3863)**

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	55.5	17	18	11	9.4	6	69	ESDMT14AL	ESDMT14ALAB
M 14x1.5 m	55.5	17	18	11	9.4	6	70	ESDMT1415AL	ESDMT1415ALAB

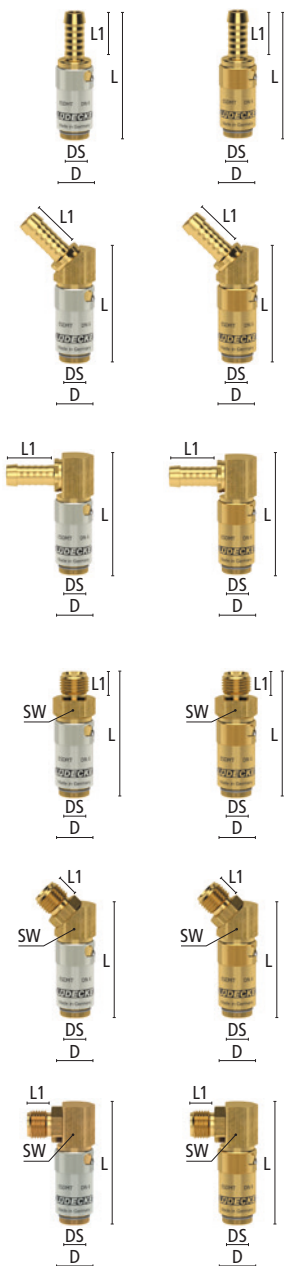
**Coupling with 45° male thread without with valve (inner cone DIN 3863)**

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	51	17	18	11	9.4	6	81	ESDMT14AL45	ESDMT14AL45AB
M 14x1.5 m	51	17	18	11	9.4	6	82	ESDMT1415AL45	ESDMT1415AL45AB

**Coupling with 90° male thread without/with valve (inner cone DIN 3863)**

Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	55	17	18	11	9.4	6	90	ESDMT14AL90	ESDMT14AL90AB
M 14x1.5 m	55	17	18	11	9.4	6	91	ESDMT1415AL90	ESDMT1415AL90AB

other sizes on request



# Temperature Regulation Quick Connect Couplings

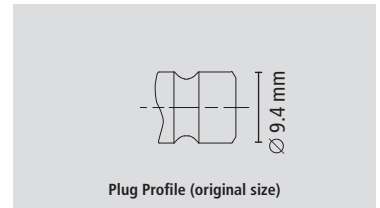
plug size 9.4 mm **Series ESDMF**

**DN6**

- Couplings flat-sealing with two-hand operation
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses (quick-fit profile for quick-fit hoses on request)

## Materials

- Body, valve body, valve, plug: MS 58 brass plain
- Sleeve: Brass MS 58 plain/ nickel-plated
- Springs, retaining rings: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	6	ISO 228 / DIN 13	Two-hands	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

## Couplings with hose connection

### Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	51	17	22.5	9.4	5	40	ESDMF 6 TL	ESDMF 6 TLAB
Hose i.D. 9	51	17	22.5	9.4	6	45	ESDMF 9 TL	ESDMF 9 TLAB
Hose i.D. 13	53	17	25	9.4	6	54	ESDMF 13 TL	ESDMF 13 TLAB

### Couplings with 45° standard hose stem without/with valve

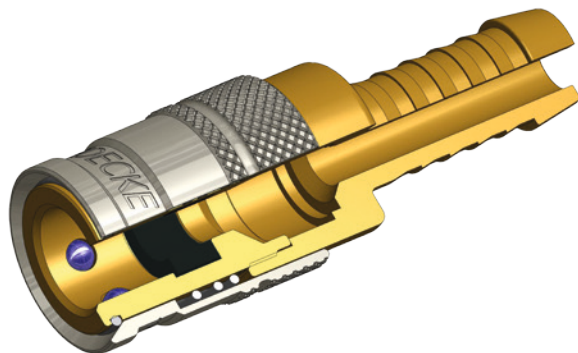
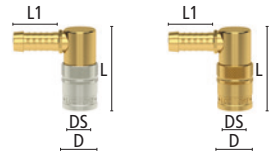
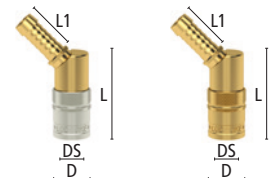
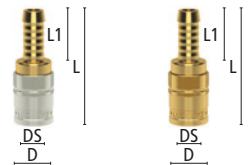
Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	17	25.5	9.4	5	58	ESDMF 6 TL-45	ESDMF 6 TL-45AB
Hose i.D. 9	40.5	17	25.5	9.4	6	62	ESDMF 9 TL-45	ESDMF 9 TL-45AB

### Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	40.5	17	25.5	9.4	5	58	ESDMF 6 TL-90	ESDMF 6 TL-90AB
Hose i.D. 9	40.5	17	25.5	9.4	6	62	ESDMF 9 TL-90	ESDMF 9 TL-90AB

Suitable hose clips, double-ear clips or crimping ferrules for standard hoses (©page 414 - 417 )

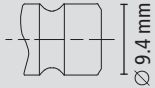
## International Plug Profile



# Temperature Regulation Quick Connect Couplings

## Series ESDMF plug size 9.4 mm

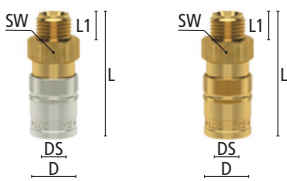
### DN 6



Plug Profile (original size)

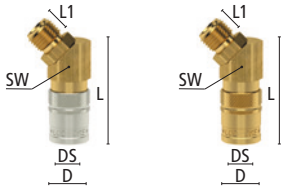
#### Couplings with thread connection

##### Couplings with straight male thread without/with valve (inner cone DIN 3863)



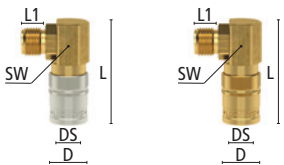
Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	46	17	17	13	9.4	6	60	ESDMF 14 A	ESDMF 14 AAB
G 3/8 m	46	19	17	13	9.4	6	70	ESDMF 38 A	ESDMF 38 AAB
M 10x1 m	44	17	17	7	9.4	6	60	ESDMF 101 A	ESDMF 101 AAB
M 14x1.5 m	46	17	17	13	9.4	6	60	ESDMF 1415 A	ESDMF 1415 AAB
M 16x1.5 m	46	19	17	13	9.4	6	70	ESDMF 1615 A	ESDMF 1615 AAB

##### Couplings with 45° male thread without/with valve (inner cone DIN 3863)



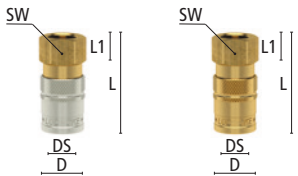
Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	65	ESDMF 14 A-45	ESDMF 14 A-45AB
G 3/8 m	45	19	17	9	9.4	6	75	ESDMF 38 A-45	ESDMF 38 A-45AB
M 10x1 m	45	17	17	7	9.4	6	65	ESDMF 101 A-45	ESDMF 101 A-45AB
M 14x1.5 m	45	17	17	9	9.4	6	65	ESDMF 1415 A-45	ESDMF 1415 A-45AB
M 16x1.5 m	45	19	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)



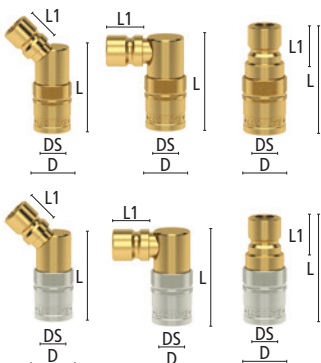
Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	75	ESDMF 14 A-90	ESDMF 14 A-90AB
G 3/8 m	45	19	17	9	9.4	6	85	ESDMF 38 A-90	ESDMF 38 A-90AB
M 10x1 m	45	17	17	7	9.4	6	75	ESDMF 101 A-90	ESDMF 101 A-90AB
M 14x1.5 m	45	17	17	9	9.4	6	75	ESDMF 1415 A-90	ESDMF 1415 A-90AB
M 16x1.5 m	45	19	17	9	9.4	6	85	ESDMF 1615 A-90	ESDMF 1615 A-90AB

##### Couplings with straight female thread without/with valve



Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	40	17	17	9	9.4	6	50	ESDMF 14 I	ESDMF 14 IAB
G 3/8 f	40	21	17	9	9.4	6	54	ESDMF 38 I	ESDMF 38 IAB
M 10x1 f	40	17	17	9	9.4	6	50	ESDMF 101 I	ESDMF 101 IAB
M 14x1.5 f	40	17	17	9	9.4	6	50	ESDMF 1415 I	ESDMF 1415 IAB

##### Couplings with plug nipple DN 6 - ESDMF and ESDMF-ESHM-System Adapters

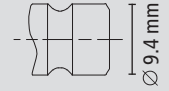


Connection	L	D	L1	DS	Passage	Ausf.	Weight	Type No. w/o valve	Type No. w valve
DN 6 - DN 9	50.5	17	15.5	9.4	6	straight	75	ESDMFK-ESDS	ESDMFK-ESDS-AB
DN 6 - DN 9	45	17	15.5	9.4	6	45°	80	ESDMFK-ESDS-45	ESDMFK-ESDS-45AB
DN 6 - DN 9	45	17	15.5	9.4	6	90°	80	ESDMFK-ESDS-90	ESDMFK-ESDS-90AB
DN 6 - DN 6	50	17	14	9.4	6	straight	70	ESDMFK-ESHMS	ESDMFK-ESHMS-AB
DN 6 - DN 9	50	17	14	9.4	6	straight	75	ESDMFK-ESHS	ESDMFK-ESHS-AB

# Temperature Regulation Quick Connect Couplings

plug size 9.4 mm **Serie ESDMF**

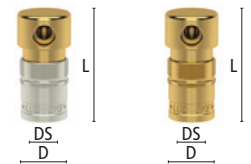
**DN6**



Plug Profile (original size)

## Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 6/8	42	17	9.4	6	63	ESDMF 8-U	ESDMF 8-UAB



## Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 8/6	250	8	6	45	TR 250-8
Tube 8/6	500	8	6	93	TR 500-8



## Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	30	17	9.4	37	ESDMF-B



## Plugs

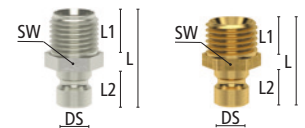
### Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	39.5	12	22.5	10.5	9.4	5	9	ESDM 6 SL
Hose i.D. 9	39.5	12	22.5	10.5	9.4	6	13	ESDM 9 SL
Hose i.D. 13	39.5	15	22.5	10.5	9.4	6	17	ESDM 13 SL



### Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	22	11	8	10.5	9.4	6	10	ESDM 18 NA*
R 1/8 m	25	11	11	10.5	9.4	6	12	ESDM 18 NAR*
G 1/4 m	23	14	9	10.5	9.4	6	14	ESDM 14 NA*
R 1/4 m	26	14	12	10.5	9.4	6	16	ESDM 14 NAR*
G 3/8 m	23.5	17	9	10.5	9.4	6	18	ESDM 38 NA*
M 8x0.75 m	20.5	11	7	10.5	9.4	4.5	9	ESDM 875 NA
M 10x1 m	22	11	7	10.5	9.4	6	8	ESDM 101 NA
M 14x1.5 m	23	14	9	10.5	9.4	6	10	ESDM 1415 NA
M 16x1.5 m	23	17	9	10.5	9.4	6	18	ESDM 1615 NA



### Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 f	22	14	9	10.5	9.4	6	15	ESDM 18 NI*
G 1/4 f	23	17	9	10.5	9.4	6	19	ESDM 14 NI*
G 3/8 f	23	19	10	10.5	9.4	6	25	ESDM 38 NI*

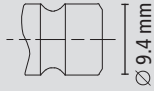


\*Plugs with inch thread nickel-plated for simple distinction

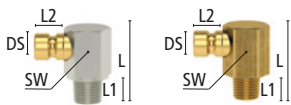
# Temperature Regulation Quick Connect Couplings

## Serie ESDMF plug size 9.4 mm

### DN6

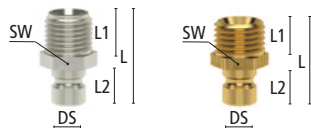


Plug Profile (original size)



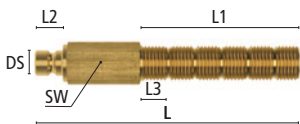
#### Plugs with 90° male thread without valve (metrical thread DIN 158/conical thread DIN 2999)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/8 m	27	15	9	10.5	9.4	6	35	ESDM 18 NA-90*
R 1/4 m	29	15	11	10.5	9.4	6	35	ESDM 14 NA-90*
R 3/8 m	30	17	12	10.5	9.4	6	35	ESDM 38 NA-90*
M 8x0.75 m	27	15	9	10.5	9.4	4.5	38	ESDM 875 NA-90
M 10x1 m	27	15	9	10.5	9.4	6	38	ESDM 101 NA-90
M 14x1.5 m	29	15	11	10.5	9.4	6	40	ESDM 1415 NA-90



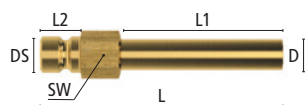
#### Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	25.5	14	11	10.5	9.4	6	14	ESDM 14 NAAB*
R 1/4 m	28.5	14	14	10.5	9.4	6	18	ESDM 14 NARAB*
G 3/8 m	26.5	17	11	10.5	9.4	6	22	ESDM 38 NAAB*
M 14x1.5 m	25.5	15	11	10.5	9.4	6	15	ESDM 1415 NAAB



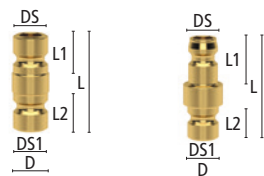
#### Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/8 m	100	11	60	10.5	9	9.4	6	36	ESDM 18-60 NA
G 1/4 m	100	14	60	10.5	9	9.4	6	58	ESDM 14-60 NA
G 3/8 m	100	17	60	10.5	9	9.4	6	90	ESDM 38-60 NA
M 10x1 m	100	11	60	10.5	9	9.4	6	36	ESDM 101-60 NA
M 14x1.5 m	100	14	60	10.5	9	9.4	6	61	ESDM 1415-60 NA



#### Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	11	42	10.5	9.4	6	14	ESDM 68 R
8	100	11	79	10.5	9.4	6	20	ESDM 100 R
10	63	11	42	10.5	9.4	6	20	ESDM 63 R10
10	100	11	79	10.5	9.4	6	38	ESDM 100 R10
10	120	11	102	10.5	9.4	6	49	ESDM 120 R



#### Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 6	27	10	10.5	10.5	9.4	9.4	6	14	ESDM-ESDM
DN 9 – DN 6	31	14	15.5	10.5	9.4	13.5	6	18	ESD-ESDM
DN 6 – DN 6	31	12	10.5	14	9	9.4	6	14	ESDM-ESHM
DN 6 – DN 9	31	14	10.5	14	13	9.4	6	18	ESDM-ESH
Protection cap (plastic) for plug profile ESDM								100	ESDM-K

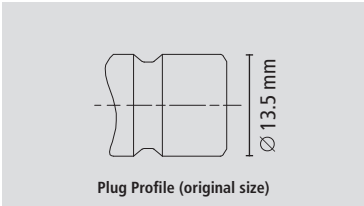
\*Plugs with inch thread nickel-plated for simple distinction

# Temperature Regulation Quick Connect Couplings

plug size 13.5 mm **Serie ESD**

- Couplings with O-ring-sealing and one-hand operation
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off
- 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.

**DN 9**



**International Plug Profile**

## Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-pl.
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	One-hand	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

## Couplings with hose connection

### Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61.5	22	25	13.5	7	72	ESD 9 TL	ESD 9 TLAB
Hose i.D. 13	61.5	22	25	13.5	9	81	ESD 13 TL	
Hose i.D. 13	61.5	22	25	13.5	9	81		ESD 13 TLAB

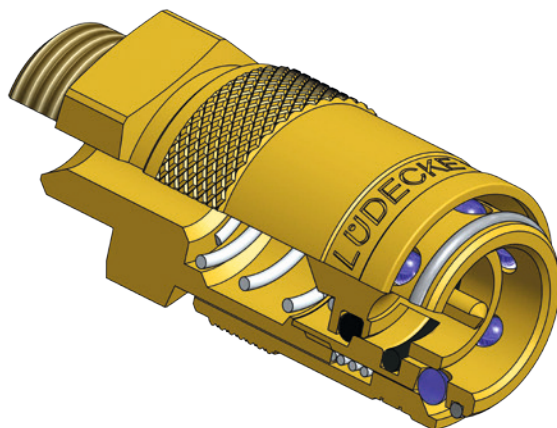
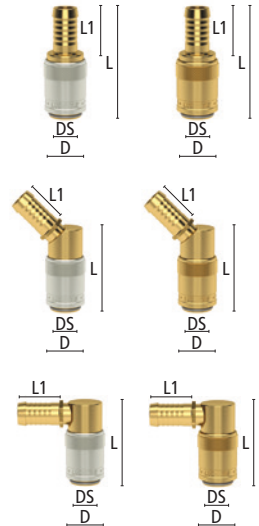
### Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13.5	7	103	ESD 9 TL-45	ESD 9 TL-45AB
Hose i.D. 13	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 connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13.5	7	105	ESD 9 TL-90	ESD 9 TL-90AB
Hose i.D. 13	51	22	30	13.5	9	111	ESD 13 TL-90	ESD 13 TL-90AB

Suitable hose clips, double-ear clips or crimping ferrules for standard hoses (©page 414 - 417)

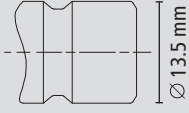




# Temperature Regulation Quick Connect Couplings

## Series ESD plug size 13.5 mm

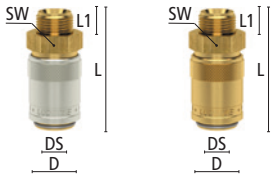
### DN 9



Plug Profile (original size)

#### Couplings with thread connection

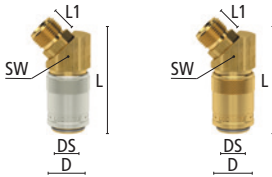
##### Couplings with straight male thread without/with valve (inner cone DIN 3863)



Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	22	22	9	13.5	9	90	ESD 14 A	ESD 14 AAB
G 3/8 m	52	22	22	9	13.5	9	94	ESD 38 A	ESD 38 AAB
M 16x1.5 m	52	22	22	9	13.5	9	93	ESD 1615 A	ESD 1615 AAB
G 1/2 m	53	24	22	10	13.5	9	95	ESD 12 A	ESD 12 AAB
G 3/8 m	52	22	22	11	13.5	9	94	ESD 38 AL	ESD 38 ALAB
M 16x1.5 m	52	22	22	11	13.5	9	105	ESD 1615 AL	ESD 1615 ALAB
G 1/2 m	54.5	24	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 connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	22	9	13.5	9	114	ESD 38 A-45	ESD 38 A-45AB
M 16x1.5 m	54	22	22	9	13.5	9	114	ESD 1615 A-45	ESD 1615 A-45AB
G 3/8 m	54	22	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.

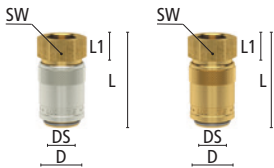
##### Couplings with 90° male thread without/with valve (inner cone DIN 3863)



Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	22	9	13.5	9	126	ESD 38 A-90	ESD 38 A-90AB
M 16x1.5 m	54	22	22	9	13.5	9	126	ESD 1615 A-90	ESD 1615 A-90AB
G 3/8 m	54	22	22	11	13.5	9	125	ESD 38 AL-90	ESD 38 AL-90AB

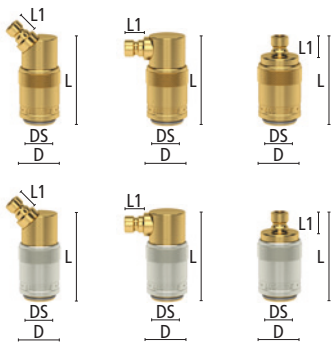
Version AL with longer male thread mainly used for assembly with Ermeto-screwings.

##### Couplings with straight female thread without/with valve



Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	22	9	13.5	9	75	ESD 14 I	ESD 14 IAB
G 3/8 f	46	22	22	9	13.5	9	84	ESD 38 I	ESD 38 IAB
G 1/2 f	49	24	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

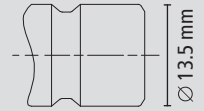


Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 9 - DN 6	48	22	10.5	13.5	6	straight	85	ESDK-ESDMS	ESDK-ESDMS-AB
DN 9 - DN 6	54	22	10.5	13.5	6	45°	100	ESDK-ESDMS-45	ESDK-ESDMS-45AB
DN 9 - DN 6	54	22	10.5	13.5	6	90°	100	ESDK-ESDMS-90	ESDK-ESDMS-90AB
DN 9 - DN 6	51	22	14	13.5	6	straight	85	ESDK-ESHMS	ESDK-ESHMS-AB
DN 9 - DN 9	51	22	14	13.5	9	straight	100	ESDK-ESHS	ESDK-ESHS-AB

# Temperature Regulation Quick Connect Couplings

plug size 13.5 mm **Series ESD**

**DN9**



Plug Profile (original size)

## Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 10/8	53	17	13.4	8	118	ESD 10-U	ESD 10-UAB

## Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 10/8	250	10	8	60	TR 250-10
Tube 10/8	500	10	8	120	TR 500-10

## Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	37	22	13.5	67	ESD-B

## Plugs

### Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	41	14.5	22.5	15.5	13.5	5	20	ESD 6 SL
Hose i.D. 9	41	14.5	22.5	15.5	13.5	7	23	ESD 9 SL
Hose i.D. 13	43.5	16	25	15.5	13.5	9	25	ESD 13 SL

### Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	27	15	7	15.5	13.5	6	16	ESD 18 NA*
G 1/4 m	29	15	9	15.5	13.5	9	17	ESD 14 NA*
R 1/4 m	32	15	12	15.5	13.5	9	21	ESD 14 NAR*
G 3/8 m	29	17	9	15.5	13.5	9	22	ESD 38 NA*
R 3/8 m	32	17	12	15.5	13.5	9	26	ESD 38 NAR*
G 1/2 m	32	22	12	15.5	13.5	9	42	ESD 12 NA*
G 3/4 m	36.5	27	16	15.5	13.5	9	77	ESD 34 NA*
M 10x1 m	27	15	7	15.5	13.5	6.5	14	ESD 101 NA
M 14x1.5 m	29	15	9	15.5	13.5	9	16	ESD 1415 NA
M 16x1.5 m	29	17	9	15.5	13.5	9	20	ESD 1615 NA

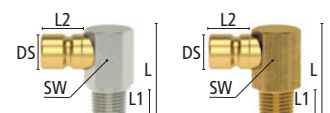
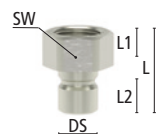
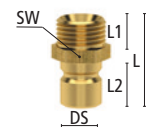
### Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 f	27	17	9	15.5	13.5	9	21	ESD 14 NI*
G 3/8 f	27.5	22	10	15.5	13.5	9	32	ESD 38 NI*
G 1/2 f	29.5	24	12	15.5	13.5	9	55	ESD 12 NI*

### Plugs with 90° male thread without valve (metrical thread DIN 158 / conical thread DIN 2999)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/4 m	35.5	17	11	15.5	13.5	9	45	ESD 14 NA-90*
M 14x1.5 m	35.5	17	11	15.5	13.5	9	47	ESD 1415 NA-90
R 3/8 m	35.5	17	12	15.5	13.5	9	45	ESD 38 NA-90*

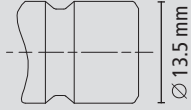
\*Plugs with inch thread nickel-plated for simple distinctions



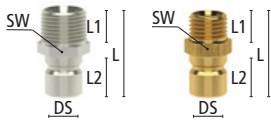
# Temperature Regulation Quick Connect Couplings

**Series ESD** plug size 13.5 mm

**DN9**

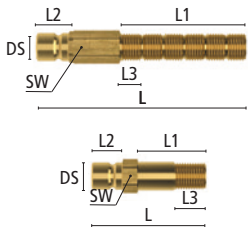


Plug Profile (original size)



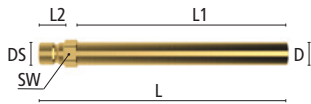
## Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	9.5	15.5	13.5	6	24	ESD 14 NAAB*
G 3/8 m	31	17	10.5	15.5	13.5	9	28	ESD 38 NAAB*
R 3/8 m	34	17	13.5	15.5	13.5	9	32	ESD 38 NARAB*
M 14x1.5 m	30	15	9.5	15.5	13.5	6	26	ESD 1415 NAAB
M 16x1.5 m	31	17	10.5	15.5	13.5	9	28	ESD 1615 NAAB



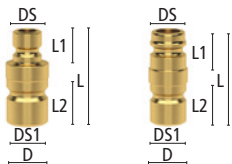
## Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/4 m	100	14	60	15.5	10	13.5	9	60	ESD 14-60 NA
G 1/4 m	57	15	34	15.5	16	13.5	9	38	ESD 14 NAL18
G 1/4 m	110	15	87	15.5	16	13.5	9	75	ESD 14 NAL71
G 3/8 m	100	17	60	15.5	10	13.5	9	91	ESD 38-60 NA
M 14x1.5 m	100	14	60	15.5	10	13.5	9	55	ESD 1415-60 NA
M 16x1.5 m	100	17	60	15.5	10	13.5	9	93	ESD 1615-60 NA



## Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	15.5	13.5	9	114	ESD 150 R



## Plug System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 9 - DN 6	31	14	15.5	10.5	13.5	9.4	6	18	ESD-ESDM
DN 9 - DN 9	34	14	15.5	15.5	13.5	13.5	9	24	ESD-ESD
DN 9 - DN 9	34	14	15.5	14	13.5	13	9	24	ESD-ESH

Protection cap (plastic) for plug profile ESD 100 **ESD-K**

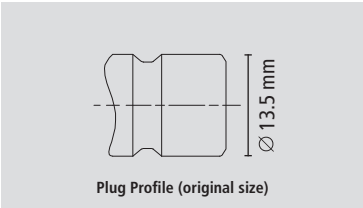
\*Plugs with inch thread nickel-plated for simple distinction

# Temperature Regulation Quick Connect Couplings

plug size 13.5 mm – High Resistant Special Brass **Series ESDT**  
with Automatic Locking Mechanism

- Forced guidance design with visual colour coding at the locking sleeve
- Combined pressure-torsion spring and very robust locking sleeve made of high resistance special brass
- **For temperature regulation applications with hot or cold water as well as tempered oil**
- Optionally available with straight-through, single or double shut-off
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

**DN 9**



**Materials**

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-Rings: Special-Hitec-FKM-O-ring

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	9	ISO 288/ DIN 13	One-hand	single/double/straight-thr.	Tempered media	5



International Plug Profile



**Couplings with hose connection**

**Couplings with straight standard hose stem without/with valve**

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	64.5	24	25	13.5	9	94	ESDT 13 TL	ESDT 13 TLAB

**Couplings with 45° standard hose stem without/with valve**

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	57	24	25	13.5	9	147	ESDT 13 TL45	ESDT 13 TL45AB

**Couplings with 90° standard hose stem without/with valve**

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 13	57	24	25	13.5	9	149	ESDT 13 TL90	ESDT 13 TL90AB

**Couplings with male threads**

**Couplings with straight male thread without/with valve (inner cone DIN 3863)**

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	57.5	22	24	12.5	13.5	9	108	ESDT38AL	ESDT38ALAB
M 16x1.5 m	57.5	22	24	12.5	13.5	9	107	ESDT1615AL	ESDT1615ALAB

**Couplings with 45° male thread without/with valve (inner cone DIN 3863)**

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	57	22	24	12.5	13.5	9	144	ESDT38AL45	ESDT38AL45AB
M 16x1.5 m	57	22	24	12.5	13.5	9	140	ESDT1615AL45	ESDT1615AL45AB

**Couplings with 90° male thread without/with valve (inner cone DIN 3863)**

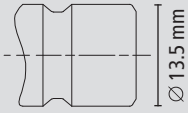
Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	57	22	24	12.5	13.5	9	146	ESDT38AL90	ESDT38AL90AB
M 16x1.5 m	57	22	24	12.5	13.5	9	143	ESDT1615AL90	ESDT1615AL90AB

Other types / sizes on request!

# Temperature Regulation Quick Connect Couplings

## Series ESDF plug size 13.5 mm

**DN9**



Plug Profile (original size)

- Couplings with flat-sealing with two-hand operation
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off
- Hose couplings available with standard stem profile for standard hoses (quick-fit profile for quick-fit hoses on request).

### Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: Brass MS 58 plain/ nickel-pl.
- Spring, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM (PTFE-coated)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C	9	ISO 228 / DIN 13	Two-hands	single/double/straight-thr.	Tempered media	Coupl. 5 / Plug 10

### Couplings with hose connection

#### Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	61.5	22	25	13.5	7	72	ESDF 9 TL	ESDF 9 TLAB
Hose i.D. 13	61.5	22	25	13.5	9	81	ESDF 13 TL	ESDF 13 TLAB

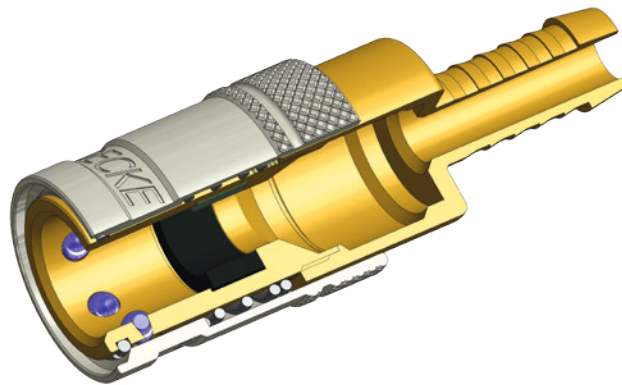
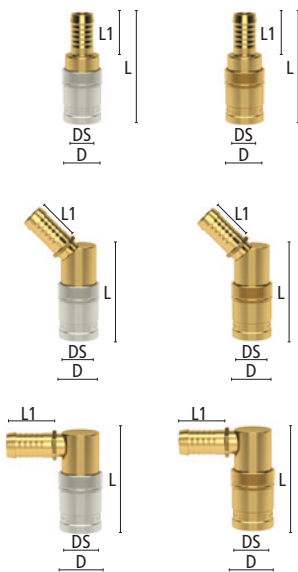
#### Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13.5	7	103	ESDF 9 TL-45	ESDF 9 TL-45AB
Hose i.D. 13	51	22	30	13.5	9	109	ESDF 13 TL-45	ESDF 13 TL-45AB

#### Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	51	22	30	13.5	7	105	ESDF 9 TL-90	ESDF 9 TL-90AB
Hose i.D. 13	51	22	30	13.5	9	111	ESDF 13 TL-90	ESDF 13 TL-90AB

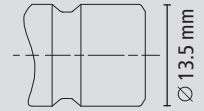
Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses (© page 414 - 417)



# Temperature Regulation Quick Connect Couplings

plug size 13.5 mm **Series ESDF**

**DN9**



Plug Profile (original size)

## Couplings with thread connection

### Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	52	22	22	9	13.5	9	90	ESDF 14 A	ESDF 14 AAB
G 3/8 m	52	22	22	11	13.5	9	94	ESDF 38 A	ESDF 38 AAB
G 1/2 m	53	24	22	12	13.5	9	95	ESDF 12 A	ESDF 12 AAB
M 16x1.5 m	52	22	22	11	13.5	9	93	ESDF 1615 A	ESDF 1615 AAB

### Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	22	11	13.5	9	114	ESDF 38 A-45	ESDF 38 A-45AB
M 16x1.5 m	54	22	22	11	13.5	9	114	ESDF 1615 A-45	ESDF 1615 A-45AB

### Couplings with 90° male thread without/with valve (inner cone DIN 3863)

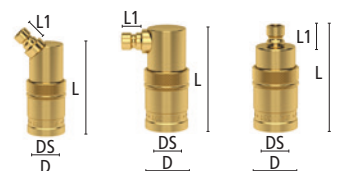
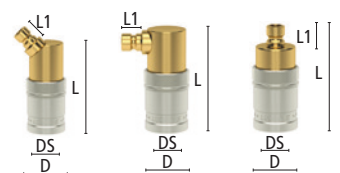
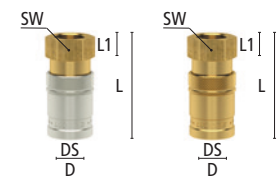
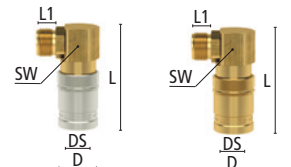
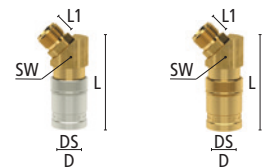
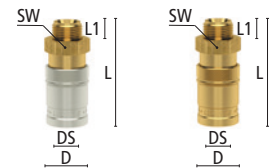
Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	54	22	22	11	13.5	9	126	ESDF 38 A-90	ESDF 38 A-90AB
M 16x1.5 m	54	22	22	11	13.5	9	126	ESDF 1615 A-90	ESDF 1615 A-90AB

### Couplings with straight female thread without/with valve

Thread connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	44.5	17	22	9	13.5	9	75	ESDF 14 I	ESDF 14 IAB
G 3/8 f	46	22	22	9	13.5	9	84	ESDF 38 I	ESDF 38 IAB
G 1/2 f	49	24	22	12	13.5	9	110	ESDF 12 I	ESDF 12 IAB

### Couplings with plug DN 6 - ESHM - Sytem Adaptor and ESH-ESDF System Adaptor

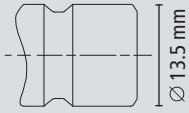
Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 9 - DN 6	48	22	10.5	13.5	6	straight	85	ESDFK-ESDMS	ESDFK-ESDMS-AB
DN 9 - DN 6	54	22	10.5	13.5	6	45°	100	ESDFK-ESDMS-45	ESDFK-ESDMS-45AB
DN 9 - DN 6	54	22	10.5	13.5	6	90°	100	ESDFK-ESDMS-90	ESDFK-ESDMS-90AB
DN 9 - DN 6	51	22	14	13.5	6	straight	85	ESDFK-ESHMS	ESDFK-ESHMS-AB
DN 9 - DN 9	51	22	14	13.5	9	straight	100	ESDFK-ESHS	ESDFK-ESHS-AB



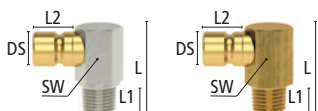
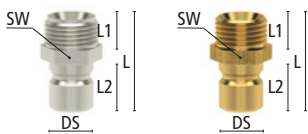
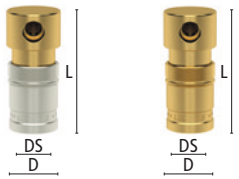
# Temperature Regulation Quick Connect Couplings

## Series ESDF plug size 13.5 mm

### DN9



Plug Profile (original size)



#### Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 10/8	58	22	13.5	8	118	ESDF 10-U	ESDF 10-UAB

#### Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 10/8	250	10	8	60	TR 250-10
Tube 10/8	500	10	8	120	TR 500-10

#### Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	37	22	13.5	67	ESDF-B

#### Plugs

#### Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	41	14.5	22.5	15.5	13.5	5	20	ESD 6 SL
Hose i.D. 9	41	14.5	22.5	15.5	13.5	7	23	ESD 9 SL
Hose i.D. 13	43.5	16	25	15.5	13.5	9	25	ESD 13 SL

#### Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	27	15	7	15.5	13.5	6	16	ESD 18 NA*
G 1/4 m	29	15	9	15.5	13.5	9	17	ESD 14 NA*
R 1/4 m	32	15	12	15.5	13.5	9	21	ESD 14 NAR*
G 3/8 m	29	17	9	15.5	13.5	9	22	ESD 38 NA*
R 3/8 m	32	17	12	15.5	13.5	9	26	ESD 38 NAR*
G 1/2 m	32	22	12	15.5	13.5	9	42	ESD 12 NA*
G 3/4 m	36.5	27	16	15.5	13.5	9	77	ESD 34 NA*
M 10x1 m	27	15	7	15.5	13.5	6.5	14	ESD 101 NA
M 14x1.5 m	29	15	9	15.5	13.5	9	16	ESD 1415 NA
M 16x1.5 m	29	17	9	15.5	13.5	9	20	ESD 1615 NA

#### Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 f	27	17	9	15.5	13.5	9	21	ESD 14 NI*
G 3/8 f	27.5	22	10	15.5	13.5	9	32	ESD 38 NI*
G 1/2 f	29.5	24	12	15.5	13.5	9	55	ESD 12 NI*

#### Plugs with 90° male thread without valve (metrical thread DIN 158 / conical thread DIN 2999)

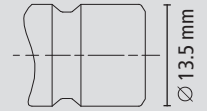
Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/4 m	35.5	17	11	15.5	13.5	9	45	ESD 14 NA-90*
M 14x1.5 m	35.5	17	11	15.5	13.5	9	47	ESD 1415 NA-90
R 3/8 m	35.5	17	12	15.5	13.5	9	45	ESD 38 NA-90*

\*Plugs with inch thread nickel-plated for simple distinction

# Temperature Regulation Quick Connect Couplings

plug size 13.5 mm **Series ESDF**

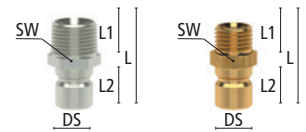
**DN 9**



Plug Profile (original size)

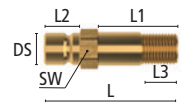
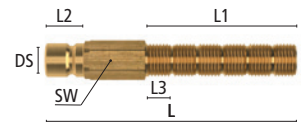
## Plugs with straight male thread with valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	30	15	9.5	15.5	13.5	6	24	ESD 14 NAAB*
G 3/8 m	31	17	10.5	15.5	13.5	9	28	ESD 38 NAAB*
R 3/8 m	34	17	13.5	15.5	13.5	9	32	ESD 38 NARAB*
M 14x1.5 m	30	15	9.5	15.5	13.5	6	26	ESD 1415 NAAB
M 16x1.5 m	31	17	10.5	15.5	13.5	9	28	ESD 1615 NAAB



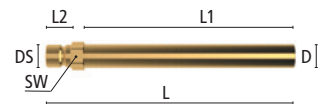
## Plugs with straight male long thread without valve (for length cutting as needed)

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/4 m	100	14	60	15.5	10	13.5	9	60	ESD 14-60 NA
G 1/4 m	57	15	34	15.5	16	13.5	9	38	ESD 14 NAL18
G 1/4 m	110	15	87	15.5	16	13.5	9	75	ESD 14 NAL71
G 3/8 m	100	17	60	15.5	10	13.5	9	91	ESD 38-60 NA
M 14x1.5 m	100	14	60	15.5	10	13.5	9	55	ESD 1415-60 NA
M 16x1.5 m	100	17	60	15.5	10	13.5	9	93	ESD 1615-60 NA



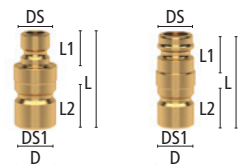
## Plug Tubes for countersunk mould threads

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
14	150	15	127	15.5	13.5	9	114	ESD 150 R



## System Adapters

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 9 - DN 6	31	14	15.5	10.5	13.5	9.4	6	18	ESD-ESDM
DN 9 - DN 9	34	14	15.5	15.5	13.5	13.5	9	24	ESD-ESD
DN 9 - DN 9	34	14	15.5	14	13.5	13	9	24	ESD-ESH



Protection cap (plastic) for plug profile ESD	100	ESD-K
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\*Plugs with inch thread nickel-plated for simple distinction





## Original **STÄUBLI** RPL Series For Hot or Cold Water Circuits for Temperature Regulation in 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 passage 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 regulation.

### 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 passage 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



## Simple and Efficient on all Areas with High Lifetime



### Simplified maintenance because of sealing on the outside

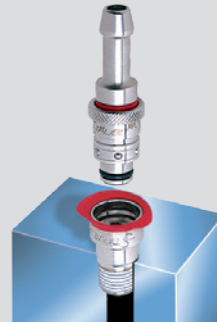
Seal replacement is quick and easy. It is done in record time and has no effect on your productivity.

### For new moulds: flush fitting



- Easy mould storage
- No risk of damage to the sockets

### For existing moulds: slightly proud fitting



### Sockets with 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 m
- 4 lengths available in G 1/4 m

#### Smooth finish

- RPL 06: 1 length
- RPL 08: 4 lengths
- RPL 12: 3 lengths

#### Construction:

Thick wall monobloc construction for high strength and stiffness.

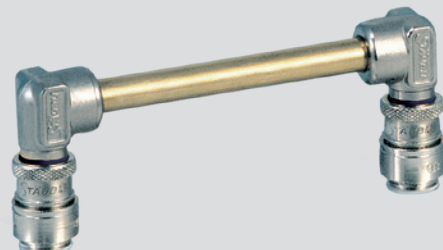


### Bridge pieces to rationalize your assemblies

- Reduction in the number of flow meters
- Ease of maintenance
- Reduced size
- Flexible assembly
  - The RPL bridge permits high assembly tolerances
  - The functionality can enhance your performance
- Use with RPL 08 non threaded plug
- Tube supply length: 1 meter

#### Construction

- Calibrated work hardened brass tube



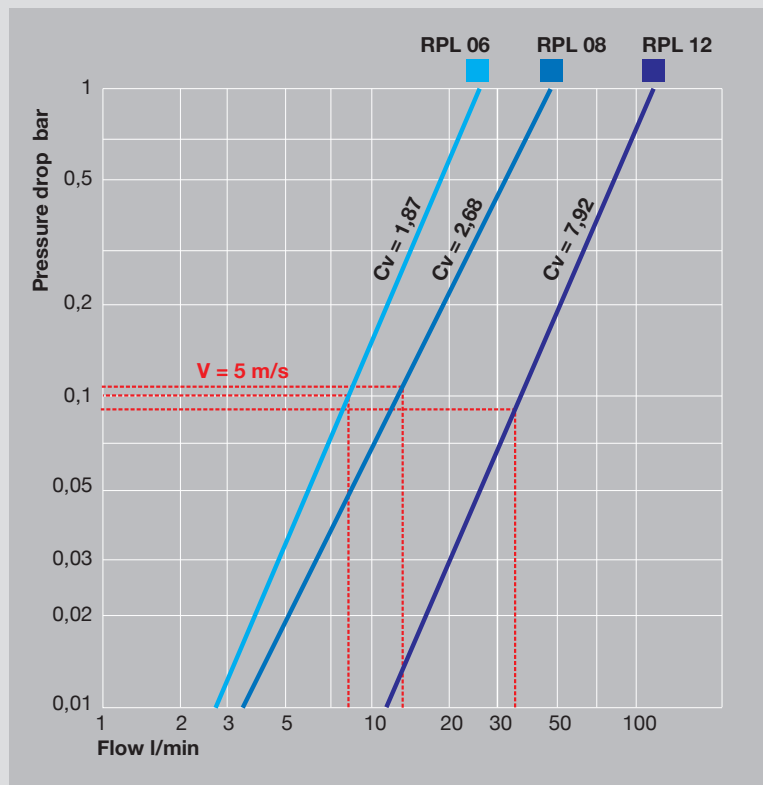


### Construction/Materials

- 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



## Flow Diagramm





## Overview Original *STÄUBLI* RPL Series

The Original STÄUBLI RPL Series is perfectly suitable for cold or hot water circuits for the temperature regulation in moulds on injection presses. They are offered in different sizes, connection types and with different coloured rings.

Series

**RPL 06**

**RPL 08**

**RPL 12**



**Materials:**

Body: Brass nickel-pl.  
 Sleeve: Brass nickel-pl.  
 Valve body: Brass nickel-pl.

Springs, Retaining ring: Stainless steel 1.4310  
 Balls: Stainless steel 1.4034

Seals: Nitril (NBR)

Socket: Brass nickel-pl.

Body: Brass nickel-pl.  
 Sleeve: Brass nickel-pl.  
 Valve body: Brass nickel-pl.

Springs, Retaining ring: Stainless steel 1.4310  
 Balls: Stainless steel 1.4034

Seals: Nitril (NBR)

Socket: Brass nickel-pl.

Body: Brass nickel-pl.  
 Sleeve: Brass nickel-pl.  
 Valve body: Brass nickel-pl.

Springs, Retaining ring: Stainless steel 1.4310  
 Balls: Stainless steel 1.4034

Seals: Nitril (NBR)

Socket: Brass nickel-pl.

**Max. Working Pressure:**

PN 10 bar

PN 10 bar

PN 10 bar

**Temperature:**

-15°C– +90°C

-15°C– +90°C

-15°C– +90°C

**Thread Types:**

ISO 2999, ISO 228, DIN 13

ISO 2999, ISO 228, DIN 13

ISO 2999, ISO 228, DIN 13

**Connection:**

straight

straight/45°/90°

straight/45°/90°

**Type of Valve:**

straight-through

straight-through

straight-through

**Operation:**

One-hand

One-hand

One-hand

**Page:**

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Accessories for Original Stäubli Quick Connect Couplings:

- Replacement Nitril seals for plugs
- Colour identification collar for hose
- Protective dust cap for socket

# Temperature Regulation Quick Connect Couplings

## ORIGINAL STÄUBLI

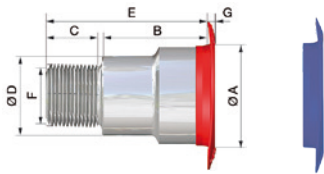
### RPL 06

- Temperature regulation of mould tools for injection moulding
- For temperature regulation applications with hot or cold water
- Straight-through (free circulation guaranteed) with high flow rate and compact design
- Easy circuit identification
- Self-sealing and immediate effective sealing
- Safe and fast controlled connection through coloured rings

#### Materials

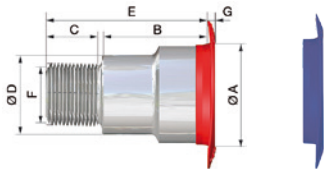
- Couplings, plugs: Brass nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Nitril (NBR), FKM O-rings also available on request

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media
PN 10 bar	-15°C – +90° C	6	DIN 2999 / ISO 228 / DIN 13	One-hand	straight-through	Water



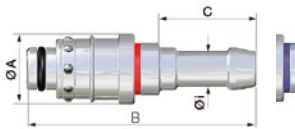
#### Straight socket with tapered male thread and self-sealing Teflon coating

F Thr. connect.	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
R 1/8 m	17	18.5	7.5	14	28.5	1.5	6	14.7	10	RPL 06.1150/KR	RPL 06.1150/KB
R 1/4 m	17	15.5	11	14	28.5	1.5	6	18.4	10	RPL 06.1151/KR	RPL 06.1151/KB



#### Straight socket with metric male thread

F Thr. connect.	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
M 10x1 m	17	18.5	8	14	28.5	1.5	6	15.4	10	RPL 06.1410/KR	RPL 06.1410/KB



#### Plug with standard hose stem

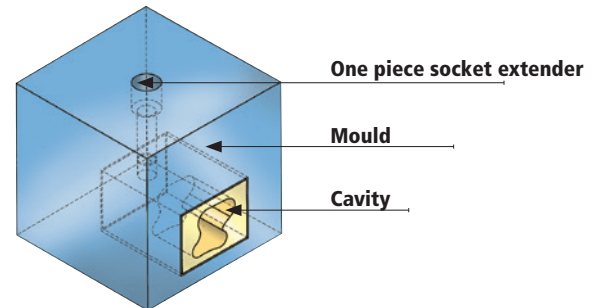
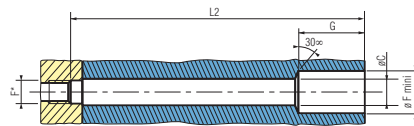
Hose connection	Øi	ØA	B	C	Weight	⊞	Type No. RED	Type No. BLUE
Hose i.D. 8	8	17	55	23	31.2	1	RPL 06.6808/KR	RPL 06.6808/KB

#### Extended socket: smooth version

Thr. connect.	L	ØA	ØB	L2	G	ØC	ØFmin	Innen-ØSW	Weight	⊞	Type No. RED	Type No. BLUE
R 1/8	33/100	17	10.2	L-5.5	20	11	18.5	6	48.9	10	RPL061010100KRR	RPL061010100KBR



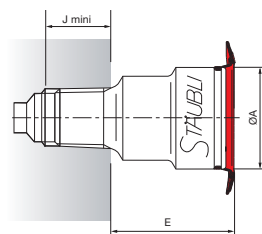
#### Installation of the sockets extenders



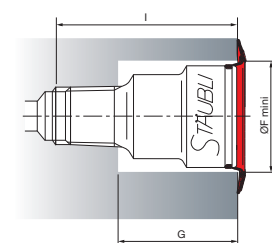
#### Installation dimensions for the socket

Thread connection	ØA	E	Jmin.	ØFmin.	G	I	Inner-ØHex.
G 1/8 f	17	20	10	18.5	20.5	29.5	6
G 1/4 f	17	18	13	18.5	18.5	30.5	6

#### Proud socket



#### Flush socket



# Temperature Regulation Quick Connect Couplings

## ORIGINAL STÄUBLI

**RPL 08**

- Temperature regulation of mould tools for injection moulding
- For temperature regulation applications with hot or cold water
- Straight-through (free circulation guaranteed) with high flow rate and compact design
- Easy circuit identification
- Self-sealing and immediate effective sealing
- Safe and fast controlled connection through coloured rings

### Materials

- Couplings, plugs: Brass nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Nitril (NBR), FKM O-rings also available on request

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media
PN 10 bar	-15°C – +90°C	7.5	DIN 2999 / ISO 228 / DIN 13	One-hand	straight-through	Water

### Straight socket with tapered male thread and self-sealing Teflon coating

F Thr. connect.	ØA	B	C	ØD	E	G	Innen-ØSW	Weight	⊞	Type No. RED	Type No. BLUE
R 1/8 m	21	22	8	17.5	32	1.5	6	27.6	10	RPL 08.1150/KR	RPL 08.1150/KB
R 1/4 m	21	21	10	17.5	33	1.5	8	29.1	10	RPL 08.1151/KR	RPL 08.1151/KB
R 3/8 m	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 Thr. connect.	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
M 10x1 m	21	22	8	17.5	32	1.5	6	28.7	10	RPL 08.1410/KR	RPL 08.1410/KB
M 10x1.5 m	21	22	8	17.5	32	1.5	6	27.1	10	RPL 08.1411/KR	RPL 08.1411/KB
M 14x1.5 m	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

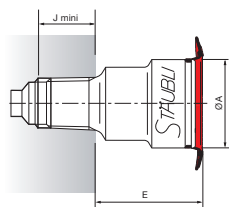
F Thr. connect.	ØA	B	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
G 1/8 f	21	35	1.5	6	44.7	10	RPL 08.1100/KR	RPL 08.1100/KB
G 1/4 f	21	39	1.5	8	43.8	10	RPL 08.1101/KR	RPL 08.1101/KB

### Straight socket with tapered male thread with valve and self-sealing teflon coating

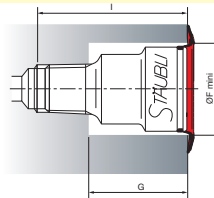
F Thr. connect.	ØA	B	C	E	G	Weight	⊞	Type No. RED	Type No. BLUE
R 3/8 m	21	11	16	29	1.5	26.3	10	RPL081152ONJVCR	RPL081152ONJVKB

### Installation dimensions for the socket

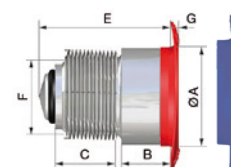
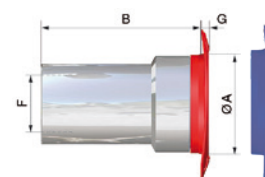
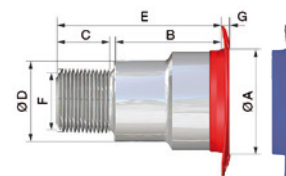
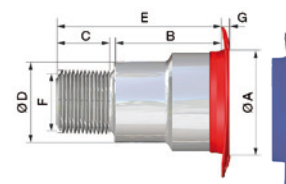
Thr. Connect	ØA	E	Jmin.	ØFmin.	G	I	Inner-ØHex.
G 1/8 f	21	23	10	22.5	24	33	6
G 1/4 f	21	22	12	22.5	23	34	8
G 3/8 f	21	12	13	22.5	13	25	8



Proud socket

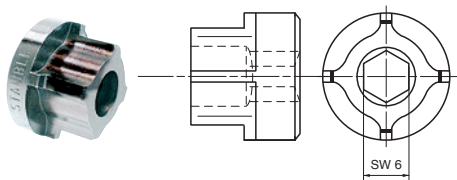


Flush socket

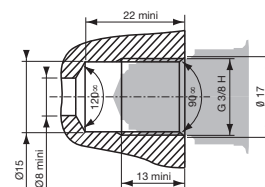
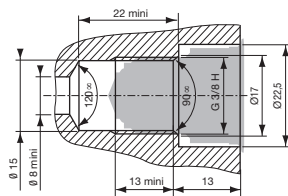


### Installation tool for RPL 08/ON

Weight	Type No.
1 18	RPL 08.9000



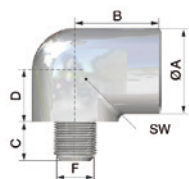
Installation dimensions of the RPL 08/ON socket into the mould max. tightening torque: 15 to 20 N.m



# Temperature Regulation Quick Connect Couplings

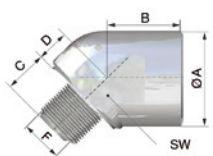
## ORIGINAL STÄUBLI

### RPL 08



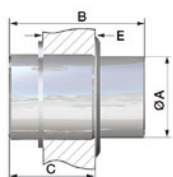
#### Socket 90° with tapered male thread

F Thread connection	ØA	B	C	D	SW	Weight		Type No.
R 1/8 m	22	22	10	13	19	72.3	1	RPL 08.1150RE
R 1/4 m	22	22	12	13	19	74.3	1	RPL 08.1151RE
R 3/8 m	22	22	13	13	19	80.0	1	RPL 08.1152RE



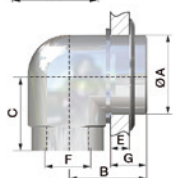
#### Socket 45°/135° with tapered male thread

F Thread connection	ØA	B	C	D	SW	Weight		Type No.
R 1/8 m	22	18.5	10	6.5	19	49.4	1	RPL 08.1150RO
R 1/4 m	22	18.5	12	4.5	19	47.4	1	RPL 08.1151RO
R 3/8 m	22	18.5	12	4.5	19	60.3	1	RPL 08.1152RO



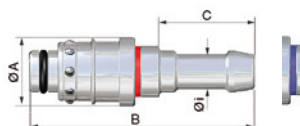
#### Panel/plate mounted straight socket

ØA	B	C	E max.	SW	Weight		Type No.
22	35	23	10	19	57.9	1	RPL 08.2000



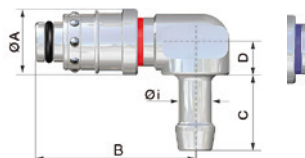
#### Panel/plate mounted socket 90° with cylindrical female thread

F Thread connection	ØA	B	C	E max.	G	Weight		Type No.
G 1/4 f	22	22	21	6.5	10	78.7	1	RPL 08.2101RE



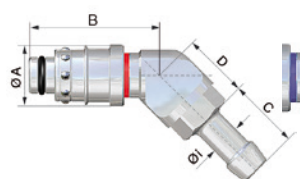
#### Straight plug for standard hose stem

Hose connection	Øi	A	L	C	Weight		Type No. RED	Type No. BLUE
Hose i.D. 6	6	20	66	28	49.5	1	RPL 08.6806/KR	RPL 08.6806/KB
Hose i.D. 8	8	20	66	28	50.9	1	RPL 08.6808/KR	RPL 08.6808/KB
Hose i.D. 10	10	20	66	28	53.1	1	RPL 08.6810/KR	RPL 08.6810/KB
Hose i.D. 13	12.5	20	66	28	62.3	1	RPL 08.6812/KR	RPL 08.6812/KB



#### Plug 90° for standard hose stem

Hose connection	Øi	ØA	L	C	D	Weight		Type No. RED	Type No. BLUE
Hose i.D. 6	6	20	48.5	28	23.5	115.0	1	RPL 08.6806REKR	RPL 08.6806REKB
Hose i.D. 8	8	20	48.5	23	23.5	117.4	1	RPL 08.6808REKR	RPL 08.6808REKB
Hose i.D. 10	10	20	48.5	23	10	97.3	1	RPL 08.6810REKR	RPL 08.6810REKB
Hose i.D. 13	12.5	20	48.5	28	10	103.9	1	RPL 08.6812REKR	RPL 08.6812REKB



#### Plug 45°/135° for standard hose stem

Hose connection	Øi	ØA	B	C	D	Weight		Type No. RED	Type No. BLUE
Hose i.D. 6	6	20	43	28	21	106.1	1	RPL 08.6806ROKR	RPL 08.6806ROKB
Hose i.D. 8	8	20	43	23	21	106.7	1	RPL 08.6808ROKR	RPL 08.6808ROKB
Hose i.D. 10	10	20	43	23	21	107.4	1	RPL 08.6810ROKR	RPL 08.6810ROKB
Hose i.D. 13	12.5	20	43	28	21	120.0	1	RPL 08.6812ROKR	RPL 08.6812ROKB

# Temperature Regulation Quick Connect Couplings

## ORIGINAL STÄUBLI

### RPL 08

#### Straight plug with quick fit hose stem for self-locking hoses

Hose connect.	Øi	ØA	L	C	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 10	3/8"	20	62	24.5	19.5	50.9	1	RPL 08.6810CNKR	RPL 08.6810CNKB
Hose i.D. 13	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 fitting brass plain

Hose connect.	Øi	ØA	L	C	D	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 10	3/8"	20	48.5	24.5	23.5	19.5	117.3	1	RPL086810CNREKR	RPL086810CNREKB
Hose i.D. 13	1/2"	20	48.5	29	25.5	23.5	127.0	1	RPL086813CNREKR	RPL086813CNREKB

#### Plug 45° with quick fit hose stem for self-locking hoses- Hose fitting brass plain

Hose connect.	Øi	ØA	L	C	D	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 10	3/8"	20	43	24.5	21	19.5	106.3	1	RPL086810CNROKR	RPL086810CNROKB
Hose i.D. 13	1/2"	20	43	29	23	23.5	116.4	1	RPL086813CNROKR	RPL086813CNROKB

#### Straight plug female with cylindrical thread

F Thr. connect.	ØA	L	Weight	☐	Type No. RED	Type No. BLUE
G 1/4 f	20	48.5	48.6	1	RPL 08.6101/KR	RPL 08.6101/KB

#### Plug 90° female cylindrical thread

F Thr. connect.	ØA	L	C	E	Weight	☐	Type No. RED	Type No. BLUE
G 1/4 f	20	48.5	16.5	31	89.6	1	RPL 08.6101REKR	RPL 08.6101REKB

#### Plug 45° with cylindrical female thread

F Thr. connect	ØA	L	C	D	Weight	☐	Type No. RED	Type No. BLUE
G 1/4 f	20	43	14	27.5	81.2	1	RPL 08.6101ROKR	RPL 08.6101ROKB

#### RPL 08 bridge socket for temperature regulation bridges 90°

For tube o.D.	ØA	L	C	Weight	☐	Type No.
11	20	59	17	95.9	1	RPL 08.6000RE

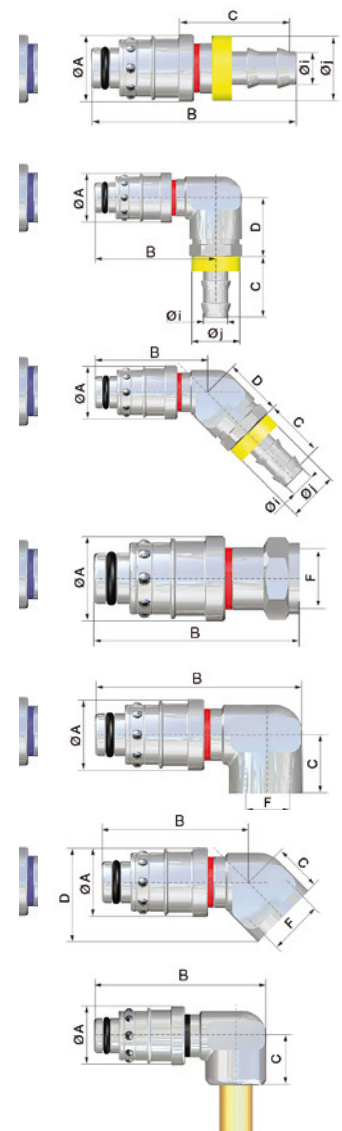
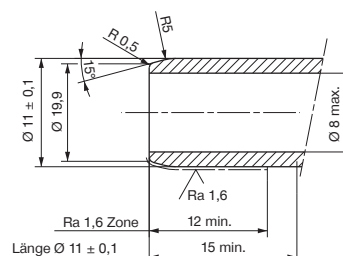
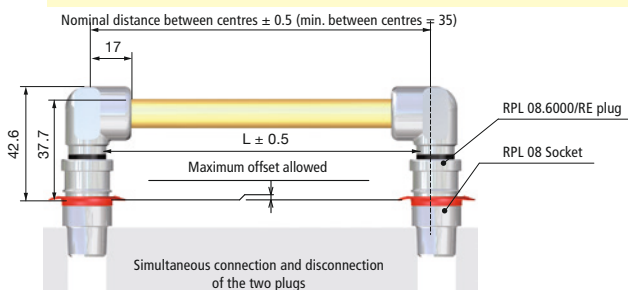
Tube available tube length = 1 Meter	Weight	☐	Type No.
	39.11	1	R 113 910 00

#### Tube preparation

Max. 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.: distance = 100 mm  
 L = (100 - 10) ± 0.5 = 90 ± 0.5

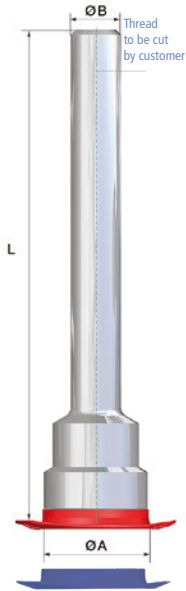




# Temperature Regulation Quick Connect Couplings

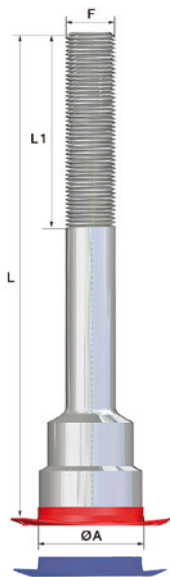
## ORIGINAL STÄUBLI

**RPL 08**



### Monobloc extended socket: with smooth finish

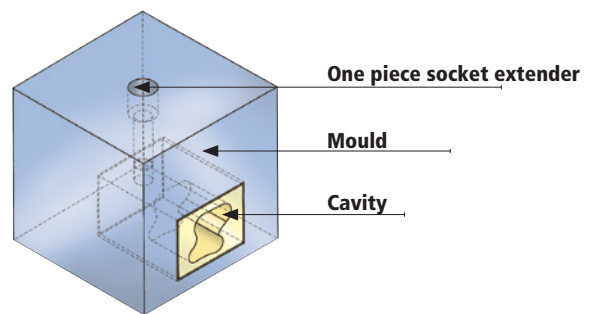
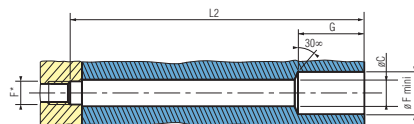
Thread-	Inner-										Type No. RED	Type No. BLUE
Connection L	ØA	ØB	L2	G	ØC	ØFmin	Hex.	Weight	Hex.			
R 1/8	33/100	21	10.2	L-5.5	23	11	22.5	6	10	1	RPL081010100KRR	RPL081010100KBR
R 1/8	100/150	21	10.2	L-5.5	23	11	22.5	6	10	1	RPL081010150KRR	RPL081010150KBR
R 1/8	150/200	21	10.2	L-5.5	23	11	22.5	6	10	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-	Inner-										Type No. RED	Type No. BLUE
Connection L	L1	Øa	L2	G	ØC	ØFmin	Hex.	Weight	Hex.			
G 1/8 m	34/50	26	21	L-5.5	23	11	22.5	6	31.3	1	RPL08101050KRRF	RPL08101050KBRF
G 1/8 m	50/100	60	21	L-5.5	23	11	22.5	6	46.6	1	RPL81010100KRRF	RPL81010100KBRF
G 1/8 m	100/150	60	21	L-5.5	23	11	22.5	6	65.7	1	RPL81010150KRRF	RPL81010150KBRF
G 1/4 m	38.5/50	26.5	21	L-7.5	23	14	22.5	8	38.3	1	RPL08101150KRRF	RPL08101150KBRF
G 1/4 m	55/100	60	21	L-7.5	23	14	22.5	8	68.2	1	RPL81011100KRRF	RPL81011100KBRF
G 1/4 m	105/150	60	21	L-7.5	23	14	22.5	8	102.0	1	RPL81011150KRRF	RPL81011150KBRF
G 1/4 m	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 Regulation Quick Connect Couplings

## ORIGINAL STÄUBLI

### RPL 12

- Temperature regulation of mould tools for injection moulding
- For temperature regulation applications with hot or cold water
- Straight-through (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

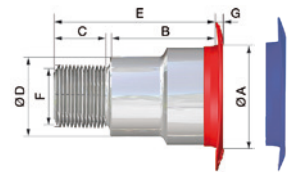
#### Materials

- Couplings, plugs: Brass nickel-plated
- 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	DN	Thread	Operation	Type of valve	Media
PN 10 bar	-15°C – +90° C	12	DIN 2999 / ISO 228 / DIN 13	One-hand	straight-through	Water

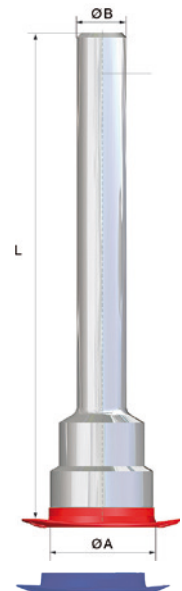
#### Straight socket with tapered male thread and self-sealing Teflon coating

F Thr. Connect.	ØA	B	C	ØD	E	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
R 3/8 m	32	28	11	25	41	2	10	66.8	1	RPL 12.1152/KR	RPL 12.1152/KB
R 1/2 m	32	28	14	25	44	2	14	72.1	1	RPL 12.1153/KR	RPL 12.1153/KB
R 3/4 m	32	13	16.5	–	32	2	14	63.0	1	RPL 12.1154/KR	RPL 12.1154/KB



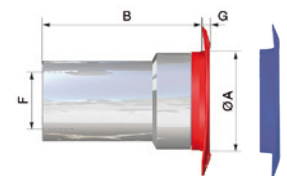
#### Monobloc extended sockets: smooth finish

Thr. Cont.	L	ØA	ØB	L2	G	ØC	Inner-		Weight	⊞	Type No. RED	Type No. BLUE
							ØFmin	ØHex.				
R 3/8 f	56/150	32	17.2	L-8.5	43	18	33.5	14	196.2	1	RPL121002150KRR	RPL121002150KBR
R 3/8 f	150/200	32	17.2	L-8.5	43	18	33.5	14	245.7	1	RPL121002200KRR	RPL121002200KBR
R 3/8 f	200/250	32	17.2	L-8.5	43	18	33.5	14	288.0	1	RPL121002250KRR	RPL121002250KBR
R 1/2 f	59/150	32	21.3	L-11.5	45	22	33.5	14	309.0	1	RPL121003150KRR	RPL121003150KBR
R 1/2 f	150/200	32	21.3	L-11.5	45	22	33.5	14	411.6	1	RPL121003200KRR	RPL121003200KBR
R 1/2 f	200/250	32	21.3	L-11.5	45	22	33.5	14	514.9	1	RPL121003250KRR	RPL121003250KBR



#### Socket with straight cylindrical female thread

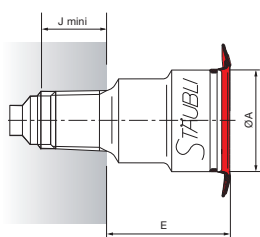
F Thr. Connect.	ØA	B	G	Inner-ØHex.	Weight	⊞	Type No. RED	Type No. BLUE
G 3/8 f	32	49	1.5	12	108.2	1	RPL 12.1102/KR	RPL 12.1102/KB
G 1/2 f	32	50	1.5	12	93.7	1	RPL 12.1103/KR	RPL 12.1103/KB



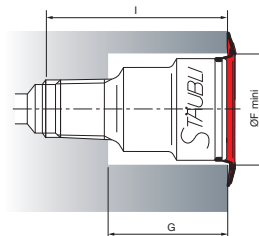
#### Installation dimensions for the socket

Thread connection	ØA	E	Jmin.	ØFmin.	G	I	Inner-ØHex.
G 3/8 f	32	29	13	33.5	30	42	10
G 1/2 f	32	30	15	33.5	31	45	14
G 3/4 f	32	15	18	33.5	20	36	14

#### Proud socket



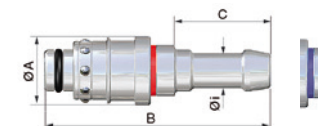
#### Flush socket



# Temperature Regulation Quick Connect Couplings

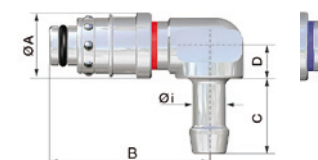
## ORIGINAL STÄUBLI

### RPL 12



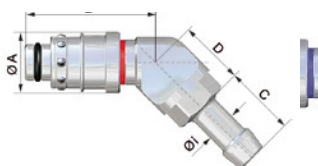
#### Straight plug with standard hose stem

Hose Connect.	Øi	ØA	L	C	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	13	28	78	33	129.9	1	RPL 12.6813/KR	RPL 12.6813/KB
Hose i.D. 16	16	28	78	33	129.9	1	RPL 12.6816/KR	RPL 12.6816/KB



#### Plug 90° with standard hose stem

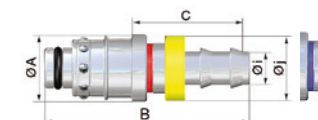
Hose Connect.	Øi	ØA	L	C	D	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	13	28	75.5	33	27	129.9	1	RPL 12.6813REKR	RPL 12.6813REKB
Hose i.D. 16	16	28	75.5	33	27	139.5	1	RPL 12.6816REKR	RPL 12.6816REKB



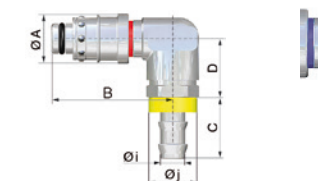
#### Plug 45° with standard hose stem

Hose Connect.	Øi	ØA	L	C	D	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	13	28	72	33	24	243.3	1	RPL 12.6813ROKR	RPL 12.6813ROKB
Hose i.D. 16	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

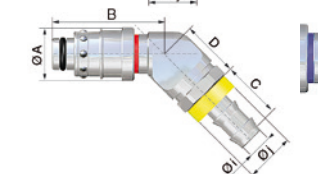


Hose Connect.	Øi	ØA	L	C	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	1/2"	28	74	29	23.5	233.2	1	RPL 12.6813CNKR	RPL 12.6813CNKB
Hose i.D. 16	5/8"	28	81.5	36.5	27	245.9	1	RPL 12.6816CNKR	RPL 12.6816CNKB



#### Plug 90° with quick fit hose stem for self locking hoses- Hose fitting plain

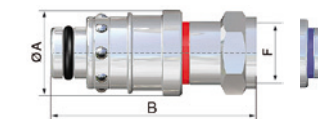
Hose Connect.	Øi	ØA	L	C	D	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	1/2"	28	75.5	29	30.5	23.5	126.7	1	RPL126813CNREKR	RPL126813CNREKB
Hose i.D. 16	5/8"	28	75.5	36.5	30	27	143.2	1	RPL126816CNREKR	RPL126816CNREKB



#### Plug 45° with quick fit hose stem for self-locking hoses- Hose fitting plain

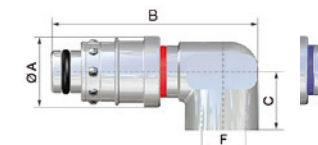
Hose Connect.	Øi	ØA	L	C	D	Øj	Weight	☐	Type No. RED	Type No. BLUE
Hose i.D. 13	1/2"	28	72	29	27.5	23.5	246.3	1	RPL126813CNROKR	RPL126813CNROKB
Hose i.D. 16	5/8"	28	72	36.5	27	27	256.6	1	RPL126816CNROKR	RPL126816CNROKB

#### Straight plug with cylindrical female thread



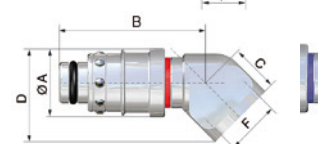
F Thread connection	ØA	L	Weight	☐	Type No. RED	Type No. BLUE
G 1/2 f	28	61	136.6	1	RPL 12.6103/KR	RPL 12.6103/KB

#### Plug 90° with cylindrical female thread



F Thread connection	ØA	L	C	E	Weight	☐	Type No. RED	Type No. BLUE
G 3/8 f	28	75.5	20	52.9	199.2	1	RPL 12.6102REKR	RPL 12.6102REKB

#### Plug 45° with cylindrical female thread




F Thread connection	ØA	L	C	D	Weight	☐	Type No. RED	Type No. BLUE
G 3/8 f	28	72	17	33	188.1	1	RPL 12.6102ROKR	RPL 12.6102ROKB

# Temperature Regulation Quick Connect Couplings Accessories for **ORIGINAL STÄUBLI**

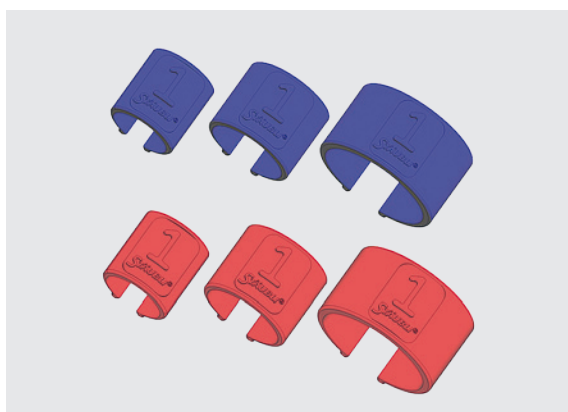
## Replacement Nitril Seal for Plug



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

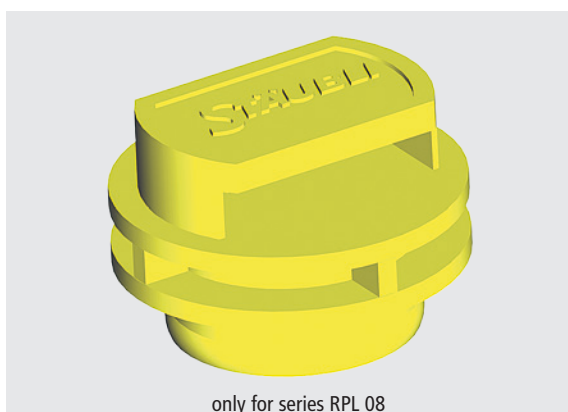
## Colour Identification Collar for Hose



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.
PE yellow	100	RPL 08.8500100



## Temperature Regulation Accessories

Additional to our couplings we offer a wide range of accessories for Temperature Regulation applications.

## SoftFlow Material Conveying Quick Connect Couplings



The **LUDECKE** SoftFlow Material Conveying Quick Connect Couplings are a high quality quick coupling system for pressure or vacuum-conveying of bulk material or liquids (e.g. for vacuum-conveying of granulate material in the plastics industry).

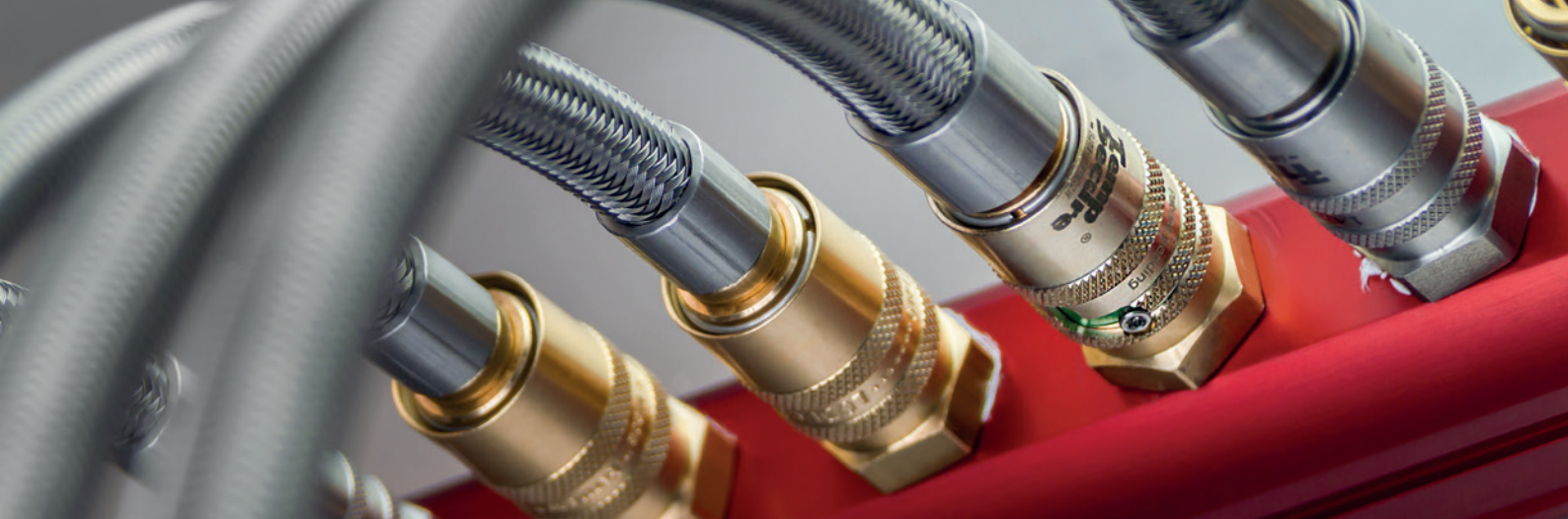
The SoftFlow products are easy to handle because of the quick coupling principle with ball shut-off and light weight. Due to the use of stainless steel for the coupling body, they are characterized by less abrasion.

**Soft  
Flow**  
by **LUDECKE**

## Manifolds for Temperature Regulation Lines



The **LUDECKE** manifolds made of aluminium or stainless steel enable a clearly arranged composition of temperature regulation lines, which increases the working and production safety. The manifold guarantees a central in flow and out flow to the temperature regulation tool and saves energy and hose lines.



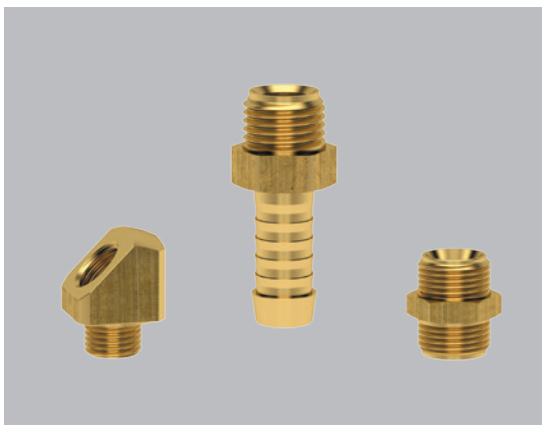
## Colour Coding



A red or blue anodized aluminium ring for the sleeve can be ordered for easy identification and distinction between flow and return lines of the tempered circuit for the series ESHM, ESHME, ESH and ESHE.

The rings are also individually available for self-assembly. Simply slide the ring on the coupling sleeve for identification!

## Screwings and Components



**LUDECKE** offers an extensive range of connecting fittings made of brass.

- Connection tubes
- Hose stems
- Connection nipples

## Hose Clips and Ferrules



For hose assembly of fittings, different assembly methods from strong clamps to light clips or ferrules can be used subject to application, media, pressure or hose material. Selection criteria are: safety of the assembly, solvability, quickness, necessary devices, as well as cleanliness, or injury risk free.

- Double-Ear Hose Clips
- High Performance Hose Clips made of steel or stainless steel
- Ferrules for Low Pressure Hose Lines
- Hand-operated Assembly Machine

# SoftFlow Material Conveying Quick Connect Couplings

made of Stainless Steel 1.4305

**DN41**



- 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
- Less abrasion due to coupling body made of stainless steel
- Coupling sleeve, plug and cap made of aluminium (hard coated)
- Full, straight-through passage without profile narrowing
- Light weight, easy to handle
- Quick coupling principle with ball shut-off for easy operation
- Easy manual replacement of sealing rings
- Perfectly adapted hose stems for PVC- or polyurethane spiral-suction hoses
- Plug and coupling for tube connection with double O-ring sealing and fixing with screw

Max. Working Pressure	Temperature	DN	Operation	Type of valve	Vacuum	Media	
PN 10 bar	-15° – +95° C	41	Two-hands	Straight-through	Vacuum	Plastic granulate	1



### SoftFlow Coupling with hose stem

Hose connection	L	D	L1	DS	Passage	Weight	Type No.
Hose i.D. 38	82	65	45	49	34	340	GRK 38 T
Hose i.D. 40	82	65	45	49	36	340	GRK 40 T
Hose i.D. 45	82	65	45	49	41	340	GRK 45 T
Hose i.D. 50	82	65	45	49	41	360	GRK 50 T

For hose clips type HS/ HSE (© page 415, 416)



### SoftFlow Vacuum-Coupling for tube connection\*

Connection	L	D	L1	DS	Passage	Weight	Type No.
Tube AD 38	70	65	30	49	34	480	GRK 38 R
Tube AD 40	70	65	30	49	36	480	GRK 40 R
Tube AD 45	70	65	30	49	41	520	GRK 45 R
Tube AD 50	70	65	30	49	41	580	GRK 50 R



### SoftFlow Coupling with female thread

Thread connection	SW	L	D	L1	DS	Passage	Weight	Type No.
G 1 1/2 f	55	68	65	19	49	41	560	GRK 15 I
G 2 f	60	68	65	19	49	41	650	GRK 20 I



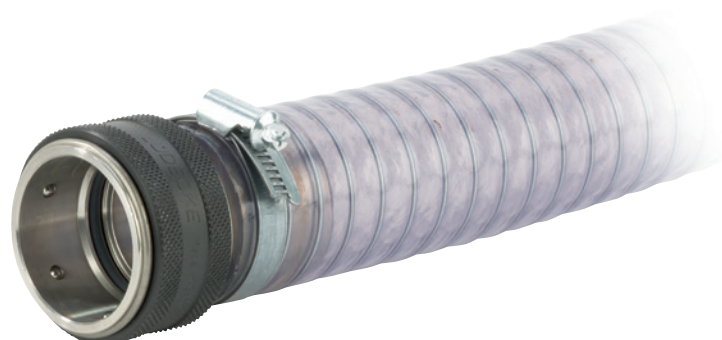
### SoftFlow Cap Coupling with chain

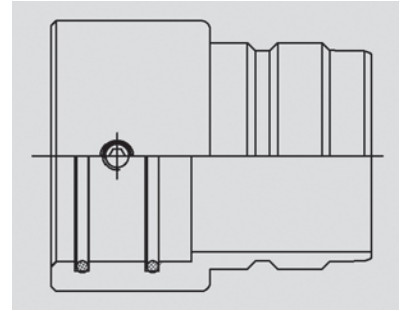
L	D	DS	Length chain	Weight	Type No.
48	68	49	170	320	GRK-V

### Original Sealing Ring for couplings

Type	Size	Material		Weight	Type No.
O-ring	45 x 5	Buna N	10	6	GRK-D

Adapted hose stems for other hose dimensions/ types on request





### Materials

- Sleeve: Aluminium (hard coated)
- Valve body, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4304
- O-ring: Buna N
- Screw: Stainless steel 1.4301
- Cap plug: Aluminium (hard coated)

**DN41**

#### SoftFlow Plug with hose stem

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 38	83	55	45	36	49	34	310	GRS 38 T
Hose i.D. 40	83	55	45	36	49	36	315	GRS 40 T
Hose i.D. 45	83	55	45	36	49	41	330	GRS 45 T
Hose i.D. 50	83	55	45	36	49	41	360	GRS 50 T

For hose clips type HS/ HSE (© page 415, 416)



#### SoftFlow Vacuum-Plug for tube connection\*

Connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Tube AD 38	68.5	58	30	36	49	34	360	GRS 38 R
Tube AD 40	68.5	58	30	36	49	36	370	GRS 40 R
Tube AD 45	68.5	58	30	36	49	41	385	GRS 45 R
Tube AD 50	68.5	58	30	36	49	41	420	GRS 50 R

\* Attention: Only suitable for vacuum applications, sealing with O-ring, fixing with screw



#### SoftFlow Plug with female thread

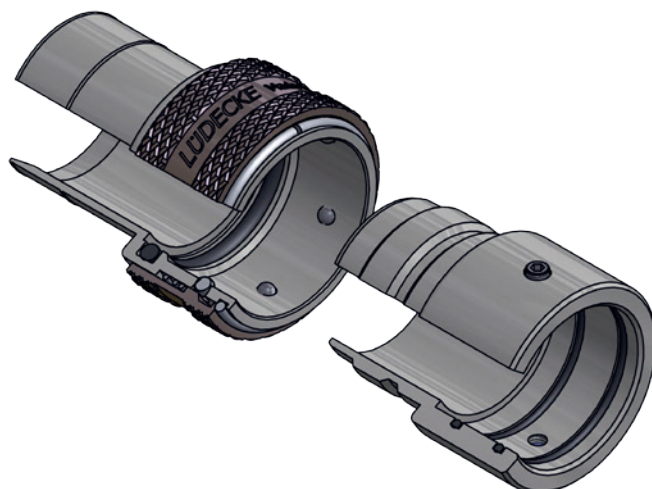
Thread connection	SW	L	D	L1	L2	DS	Passage	Weight	Type No.
G 1 1/2 f	55	65	59	19	36	49	41	350	GRS 15 I
G 2 f	60	65	59	19	36	49	41	380	GRS 20 I



#### SoftFlow Cap Plug with chain

L	D	L1	DS	Length chain	Weight	Type No.
60	58	36	49	170	195	GRS-V

Special types/versions, i.e. with bulkhead-screwing, plug or colour codings, other sizes on request





# Manifolds for Temperature Regulation Lines

## made of Aluminium (Anodised) and Stainless Steel 1.4401

- Manifolds, aluminium blue and red anodised or stainless steel 1.4401, 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 regulation lines, saves energy and hose lines because of central inlet of the temperature regulation media into the machine
- A central inflow from and outflow to the temperature regulation 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 f, top outlet thread 1/4 f for coupling Series DN 6 and DN 9
- Other types / versions on request

### Materials

- Manifold: Aluminium anodised/ Stainless steel 1.4401 • Plain End Plug: Brass MS 58

Max. Working Pressure	Temperature	Thread	Media	
PN 15 bar	-20°C – +200°C	ISO 228	Tempered media	1

### Aluminium Manifolds

G*	G1**	L	B	L1	L2	L3	L4	ØC	A	D	B1	Colour	Weight	Type No.
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	blue	500	VB 34144-190 B
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	red	500	VB 34144-190 R
2 x G 3/4 f	6 x G 1/4 f	266	43.5	151.6	30	41.5	57.2	4.5	41.3	38	31	blue	700	VB 34146-266 B
2 x G 3/4 f	6 x G 1/4 f	266	43.5	151.6	30	41.5	57.2	4.5	41.3	38	31	red	700	VB 34146-266 R
2 x G 3/4 f	8 x G 1/4 f	342	43.5	227.6	30	41.5	57.2	4.5	41.3	38	31	blue	900	VB 34148-342 B
2 x G 3/4 f	8 x G 1/4 f	342	43.5	227.6	30	41.5	57.2	4.5	41.3	38	31	red	900	VB 34148-342 R
2 x G 3/4 f	10 x G 1/4 f	418	43.5	303.6	30	41.5	57.2	4.5	41.3	38	31	blue	1100	VB 341410-418 B
2 x G 3/4 f	10 x G 1/4 f	418	43.5	303.6	30	41.5	57.2	4.5	41.3	38	31	red	1100	VB 341410-418 R

### Manifolds of Stainless Steel 1.4401

G*	G1**	L	B	L1	L2	L3	L4	ØC	A	D	B1	Weight	Type No.
2 x G 3/4 f	4 x G 1/4 f	190	43.5	75.6	30	41.5	57.2	4.5	41.3	38	31	1490	VBE 34144-190

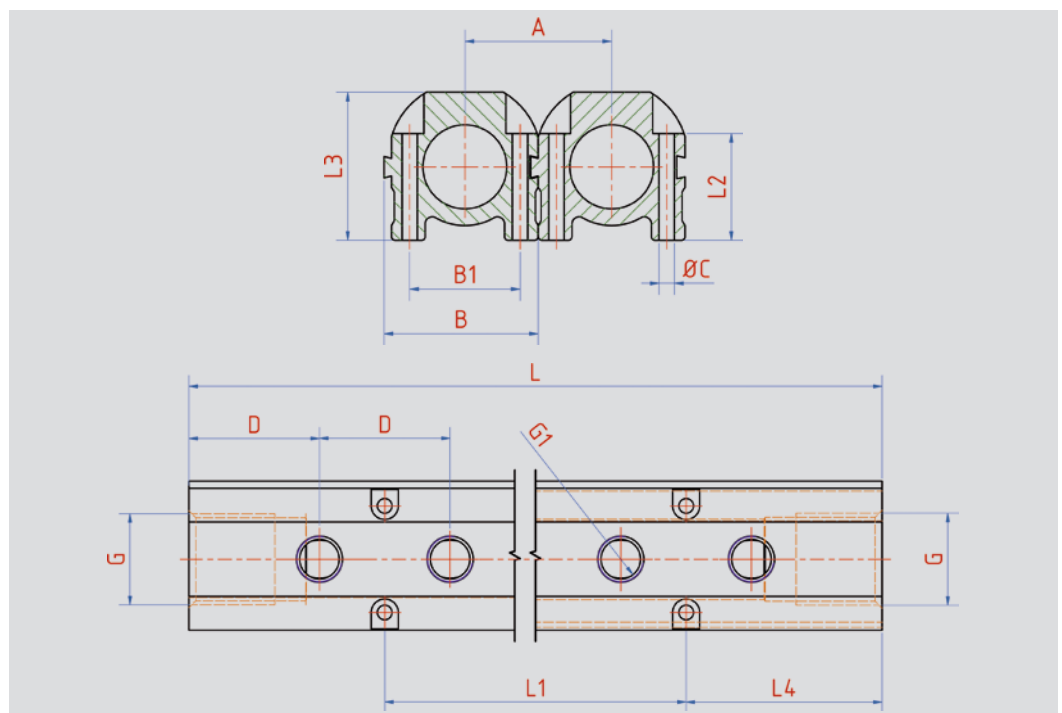
### Plain End Plug for Manifolds

Thread	Inner Hexagon		Weight	Type No.
G 3/4 m	SW 12	5	80	VBS-34

\*Thread connection on the side

\*\*Thread connection on the top

3- and 4-way Manifolds of brass – (© page 120)



# Colour Coding

- Easy identification and distinction between flow and return lines of the tempered circuit with red or blue anodised colour coding (for the series ESHM, ESHME, ESH, ESHE)
- Surcharge 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 TALBB)
- The rings are also available for self-assembly. Simply slide the ring on the coupling sleeve for identification!

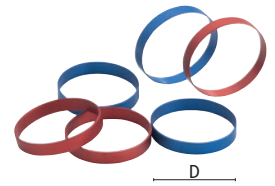
## Materials

- Colour coding: Aluminium anodised

### Marking rings for temperature regulation couplings

for coupling type	D	Colour		Weight	Type No.
ESHME,ESHM (DN 6)	17	red	50	1	ESHM-CR-R
ESHME,ESHM (DN 6)	17	blue	50	1	ESHM-CR-B
ESHE,ESH (DN 9)	22	red	50	2	ESH-CR-R
ESHE,ESH (DN 9)	22	blue	50	2	ESH-CR-B

Other coupling series available on request.



# Screwings and Components

made of Brass MS 58 plain

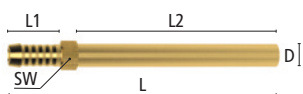
- For temperature regulation applications with hot or cold water as well as tempered oil
- Hose connections available with standard hose stem for standard hoses or quick-fit stem profile for quick-fit hoses

## Materials

- Screwings, components: Brass MS 58 plain

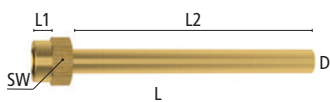
Max. Working Pressure	Temperature	Thread	Inner Cone	Media
PN 15 bar	-20°C – +200°C	ISO 228 / DIN 13	DIN 3863	Tempered media

### Standard hose stem tubes for counter-sunk mould threads



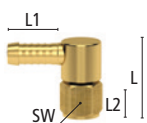
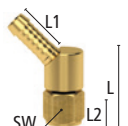
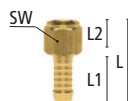
Thread connection	L	SW	D	L1	L2	Passage	Weight	Type No.
Hose i.D. 9	120	11	10	22.5	90.5	6	50	ESHM 120 RS
Hose i.D. 13	150	15	14	25	115	9	114	ESH 150 RS

### Female thread tubes for counter-sunk mould threads



Thread connection	L	SW	D	L1	L2	Passage	Weight	Type No.
M 14x1.5 f	120	17	10	12	104.5	6	60	ESHM 120 RI
M 16x1.5 f	150	22	14	12	134.5	9	130	ESH 150 RI

### Standard hose stems with outer cone DIN 3863 and hexagon nut. straight. 45° and 90°



Thread con.	Hose connect.	L	SW	L1	L2	Version	Passage	Weight	Type No.
G 1/4 f	Hose i.D. 9	40	17	23.5	10.5	gerade	6	31	ST 149 MHL
G 1/4 f	Hose i.D. 9	52	17	22.5	10.5	45°	6	60	ST 149 MHL-45
G 1/4 f	Hose i.D. 9	34	17	22.5	10.5	90°	6	60	ST 149 MHL-90
G 3/8 f	Hose i.D. 13	41	22	27	10	gerade	9	50	ST 3813 MHL
G 3/8 f	Hose i.D. 13	56	22	22.5	10	45°	9	80	ST 3813 MHL-45
G 3/8 f	Hose i.D. 13	40	22	22.5	10	90°	9	80	ST 3813 MHL-90
G 3/4 f	Hose i.D. 19	52	32	32	14	gerade	13	130	ST 3419 MHL
M 14x1.5 f	Hose i.D. 9	40	17	23.5	10.5	gerade	6	33	ST 14159 MHL
M 14x1.5 f	Hose i.D. 9	52	17	22.5	10.5	45°	6	60	ST 14159 MHL-45
M 14x1.5 f	Hose i.D. 9	34	17	22.5	10.5	90°	6	60	ST 14159 MHL-90
M 16x1.5 f	Hose i.D. 13	41	22	27	10	gerade	9	50	ST 161513 MHL
M 16x1.5 f	Hose i.D. 13	56	22	22.5	10	45°	9	80	ST 161513MHL-45
M 16x1.5 f	Hose i.D. 13	40	22	22.5	10	90°	9	80	ST 161513MHL-90
M 24x1.5 f	Hose i.D. 19	52	30	32	14	gerade	13	132	ST 241519 MHL

### Male thread connection nipples with inner cone DIN 3863 – 60° cone



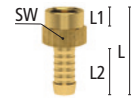
Thread connection	L	SW	L1	L2	Passage	Weight	Type No.
2 x G 1/4 m	23	17	9	9	6	21	D 14 MH
2 x G 3/8 m	23	19	9	9	9	39	D 38 MH
2 x G 1/2 m	30	22	12	12	13	46	D 12 MH
2 x G 3/4 m	40	27	16	16	13	125	D 34 MH
G 1/4 m - M 14x1.5 m	23	17	9	9	6	23	D 14-1415 MH
G 1/4 m - M 16x1.5 m	23	19	9	9	6	27	D 14-1615 MH
G 3/8 m - M 14x1.5 m	23	19	9	9	8	30	D 38-1415 MH
G 3/8 m - M 16x1.5 m	23	19	9	9	9	39	D 38-1615 MH
G 1/2 m - M 14x1.5 m	30	22	12	9	6	55	D 12-1415 MH
G 1/2 m - M 16x1.5 m	30	22	12	9	9	55	D 12-1615 MH
G 1/2 m - M 24x1.5 m	36	27	12	12	13	114	D 12-2415 MH
G 3/4 m - M 24x1.5 m	40	27	16	16	13	105	D 34-2415 MH
2 x M 14x1.5 m	23	17	9	9	6	30	D 1415 MH
2 x M 16x1.5 m	23	19	9	9	9	26	D 1615 MH
2 x M 24x1.5 m	40	27	16	16	13	25	D 2415 MH
M 14x1.5 m - M 16x1.5 m	23	17	9	9	9	20	D 1415-1615 MH
M 14x1.5 m - M 18x1.5 m	26	19	9	9	9	35	D 1415-1815 MH
M 16x1.5 m - M 18x1.5 m	26	19	9	9	9	37	D 1615-1815 MH

# Screwings and Components

made of Brass MS 58 plain

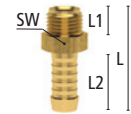
## Female thread standard hose stems

Thr. connect.	Hose connect.	L	SW	L1	L2	Passage	⊞	Weight	Type No.
M 14x1.5 f	Hose i.D. 9	37.5	17	12	22.5	6	10	20	TI 14159 MHL
M 16x1.5 f	Hose i.D. 13	40	22	12	25	9	10	45	TI 161513 MHL
M 24x1.5 f	Hose i.D. 19	55	30	18	35	13	10	108	TI 241519 MHL



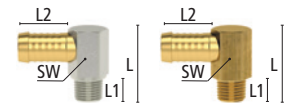
## Male thread standard hose stems with inner cone DIN 3863 – 60° cone

Thr. connect.	Hose connect.	L	SW	L1	L2	Passage	⊞	Weight	Type No.
M 8x0.75 m	Hose i.D. 6	33.5	11	7	22.5	4.5	10	13	G 875-6 THL
M 8x0.75 m	Hose i.D. 9	33.5	11	7	22.5	4.5	10	19	G 875-9 THL
M 10x1 m	Hose i.D. 9	33.5	11	7	22.5	6	10	20	G 101-9 THL
G 1/8 m	Hose i.D. 9	33.5	11	7	22.5	6	10	20	G 18-9 THL
G 1/4 m	Hose i.D. 9	37.5	15	9	22.5	6	10	21	G 14-9 THL
G 1/4 m	Hose i.D. 13	40	15	9	25	8	10	34	G 14-13 THL
M 12x1.5 m	Hose i.D. 13	40	15	9	25	7	10	35	G 1215-13 THL
M 14x1.5 m	Hose i.D. 13	40	15	9	25	9	10	36	G 1415-13 THL
G 3/8 m	Hose i.D. 9	37.5	17	9	22.5	6	10	27	G 38-9 THL
G 3/8 m	Hose i.D. 13	40	17	9	25	9	10	36	G 38-13 THL
M 16x1.5 m	Hose i.D. 13	40	17	9	25	9	10	36	G 1615-13 THL
G 1/2 m	Hose i.D. 19	50	22	12	35	13	10	73	G 12-19 THL
M 24x1.5 m	Hose i.D. 19	56	27	16	35	13	10	114	G 2415-19 THL
G 3/4 m	Hose i.D. 19	56	27	16	35	13	10	125	G 34-19 THL



## Male thread standard hose stems 90° (metric threads acc. DIN 158/R-threads acc. DIN 2999)

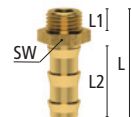
Thr. connect.	Hose connect.	L	SW	L1	L2	Passage	⊞	Weight	Type No.
M 5x0.5 m	Hose i.D. 5	15.5	9	5	18	2.7	10	9	ESHMC505-5SL-90
M 8x0.75 m	Hose i.D. 5	17.5	9	5	20	2.7	10	11	ESHMC875-5SL-90
M 8x0.75 m	Hose i.D. 9	27	15	9	20	4.5	10	35	ESHM 875-9SL-90
M 10x1 m	Hose i.D. 9	27	15	9	20	6	10	38	ESHM 101-9SL-90
R 1/8 m	Hose i.D. 9	27	15	9	20	6	10	38	ESHM 18-9SL-90*
M 14x1.5 m	Hose i.D. 13	34	17	11	24	9	10	47	ESH 1415-13SL-90
R 1/4 m	Hose i.D. 13	34	17	11	24	9	10	48	ESH 14-13SL-90*
R 1/2 m	Hose i.D. 19	47	24	16	32	13	10	158	ESHG 12-19SL-90*
M 24x1.5 m	Hose i.D. 19	47	24	16	32	13	10	165	ESHG2415-19SL90



Suitable hose clips, double-ear clips or crimping ferrules for standard hoses (©page 414 - 417)

## Male thread quick-fit hose stems – 60° cone

Thr. connect.	Hose connect.	L	SW	L1	L2	Passage	⊞	Weight	Type No.
M 10x1 m	Hose i.D. 6	41	11	9	28	6	10	20	G 101-6 TH
G 1/8 m	Hose i.D. 6	39	14	7	28	4	10	16	G 18-6 TH
G 1/4 m	Hose i.D. 6	39	17	7	28	4	10	19	G 14-6 TH
G 1/8 m	Hose i.D. 10	39	14	7	28	5	10	21	G 18-10 TH
G 1/4 m	Hose i.D. 10	39	17	7	28	7	10	23	G 14-10 TH
G 1/4 m	Hose i.D. 13	39	17	7	28	9	10	28	G 14-13 TH
M 14x1.5 m	Hose i.D. 10	42	15	9	28	7	10	26	G 1415-10 TH
G 3/8 m	Hose i.D. 10	43	17	10	28	7	10	32	G 38-10 TH
G 3/8 m	Hose i.D. 13	43	17	10	28	9	10	36	G 38-13 TH
G 1/2 m	Hose i.D. 10	43	22	10	28	7	10	41	G 12-10 TH
G 1/2 m	Hose i.D. 13	43	22	10	28	9	10	41.5	G 12-13 TH
G 1/2 m	Hose i.D. 16	58	22	12	38	13	10	70	G 12-16 TH
G 3/4 m	Hose i.D. 16	62	27	16	38	13	10	120	G 34-16 TH
G 3/4 m	Hose i.D. 19	62	27	16	38	14	10	135	G 34-19 TH



## Quick-fit hose menders with / without safety collar

Hose connection	L	L1	Passage	Version	⊞	Weight	Type No.
Hose i.D. 13	58	28	10	w safety collar	10	24	SV 13 R-TH
Hose i.D. 13	47	22.5	10	w/o safety collar	10	26	SV 13 R-THO
Hose i.D. 16	47	22.5	10	w/o safety collar	10	39	SV 16 R-THO



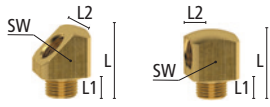
**Safety instruction:** Only use quick-fit hose stems in combination with suitable quick-fit hoses!

## Coloured marking rings (© page 205)

\*Hose sleeves with hexagon-thread nickel-pl. for simple differentiation

# Screwings and Components

made of Brass MS 58 plain



## Angle screwings for 45° or 90° connections for use as modular system

Thread connection	L	SW	L1	L2	Version	Weight	Type No.
G 1/4 m - G 1/4 f	29	20	8	10	45°	42	W 14 IA-45
G 1/4 m - G 1/4 f	29	20	8	13.5	90°	53	W 14 IA-90

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



## Swivel head screwing for trimming of blow nozzles

Thread connection	L	SW	D	L1	L2	Displacement	Weight	Type No.
G 1/4 m - G 1/4 f	53	22	27	9	10	aprox. 47°	104	KGV 14

(Temperature -20°C/+100°C)

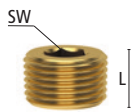
## Male thread- / Female thread-reducing nipples

Thread connection	L	SW	L1	Weight	Type No.
M 14x1.5 m - M 10x1 f	11	17	7	10	R 1415-101 NH
M 18x15 m - M 14x15 f	14	22	9	10	R 1815-1415 NH
G 1/4 m - G 1/8 f	11	17	7	10	R 14-18 NH
G 3/8 m - G 1/4 f	13	19	9	10	R 38-14 NH
G 1/2 m - G 3/8 f	18	24	12	10	R 12-38 NH
M 24x1.5 m - M 16x1.5 f	24	27	16	10	R 2415-1615 NH
G 3/4 m - G 1/2 f	24	27	16	10	R 34-12 NH



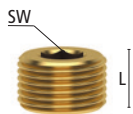
## Locking screws with inner hexagon DIN 906 with tapered male thread

Thread connection	L	SW	Weight	Type No.
M 8x0.75 m	4	8	3	VS 875
M 10x1 m	5	8	3.5	VS 101
M 12x1.5 m	6	8	6	VS 1215
M 14x1.5 m	7	10	11	VS 1415
R 1/8 m	5	8	7.5	VS 18*
R 1/4 m	7	10	11	VS 14*
R 3/8 m	8	10	13	VS 38*
R 1/2 m	10	10	18	VS 12*



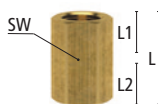
## Locking screws with inner hexagon DIN 906 with parallel male thread

Thread connection	L	SW	Weight	Type No.
M 8x0.75 m	8	4	3	VS 875 ZY
M 10x1 m	8	5	3.5	VS 101 ZY
M 12x1.5 m	8	6	6	VS 1215 ZY
M 14x1.5 m	10	7	11	VS 1415 ZY
G 1/8 m	8	5	7.5	VS 18 ZY
G 1/4 m	10	7	11	VS 14 ZY
G 3/8 m	10	8	13	VS 38 ZY
G 1/2 m	10	10	18	VS 12 ZY



## Female thread combination nipples

Thread connection	L	SW	L1	L2	Weight	Type No.
2 x G 1/4 f	26	17	12	12	21	U 14 NH
G 1/2 f - M 14x1.5 f	24	27	14	10	45	U 12-1415 NH
G 1/2 f - M 16x1.5 f	24	27	14	10	46	U 12-1615 NH
G 3/4 f - M 14x1.5 f	28	32	18	10	75	U 34-1415 NH
G 3/4 f - M 16x1.5 f	28	32	18	10	77	U 34-1615 NH



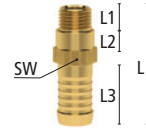
\*Lockings screws with hexagon-thread nickel-pl. for simple differentiation

# Screwings and Components

made of Brass MS 58 plain

## Male thread standard hose stems with collar

Thread connect.	Hose Connection	L	SW	L1	L2	L3	Passage	Weight	Type No.
G 1/8 m	Hose i.D. 9	40	11	7	7	22.5	6	10 15	G 189 TA
G 1/4 m	Hose i.D. 13	47	15	9	7	25	9	10 33	G 1413 TA
G 1/2 m	Hose i.D. 19	62	22	12	10	32	13	5 100	G 1219 TA
G 3/4 m	Hose i.D. 19	62	27	12	10	32	13	5 150	G 3419 TA
M 10x1 m	Hose i.D. 9	40	11	7	7	22.5	6	10 15	G 1019 TA
M 12x1.5 m	Hose i.D. 13	47	15	9	7	25	8	10 33	G 121513 TA
M 14x1.5 m	Hose i.D. 13	47	15	9	7	25	9	10 33	G 141513 TA
M 24x1.5 m	Hose i.D. 19	62	27	12	10	32	13	5 140	G 241519 TA



# High-Performance Hose Clips

made of Steel W1 (DIN 3017)

- High-performance hose clips made of steel W1, free of chrome VI, zinc-plated and thick layer passivated
- Optimum sealing through high 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 individually
- For safe, fast and removable use on various hoses and fittings for various media

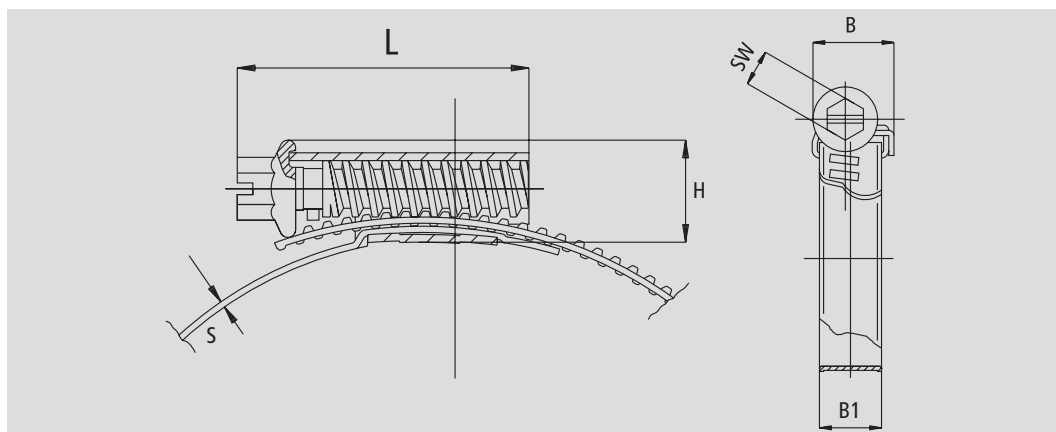
## Materials

- Band, Body, Screw: Steel W1, zinc-plated and thick layer passivated

Norm	
DIN 3017	

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

Range	torque				band width				Weight	Type No.	
	B	SW	Max.Nm	L	H	B1	S	band-thickness			
8-12	5/18-1/2	14	7	2-2.5	20.5	11.5	9	0.7	100	12	HS 12
10-16	5/18-5/8	14	7	2-2.5	20.5	11.5	9	0.8	100	13	HS 16
12-22	1/2-3/4	14	7	3-3.5	24	11.5	9	0.8	100	16	HS 20
16-27	5/8-1	16	7	5-5.5	31	13	9	0.8	100	17	HS 25
20-32	3/4-1 1/4	16	7	5-5.5	31	13	12	0.8	50	27	HS 32
25-40	1-1 5/8	16	7	5-5.5	31	13	12	1.0	50	32	HS 40
30-45	1 3/8-1 3/4	16	7	5-5.5	31	13	12	1.0	50	33	HS 45
35-50	1 1/4-2	16	7	5-5.5	31	13	12	1.0	50	35	HS 50
40-60	1 5/8-2 3/8	16	7	5-5.5	31	13	12	1.0	25	39	HS 60
50-70	2-2 3/4	16	7	5-5.5	31	13	12	1.0	25	43	HS 70
60-80	2 3/8-3 1/8	16	7	5-5.5	31	13	12	1.0	25	45	HS 80
70-90	2 3/4-3 1/2	16	7	5-5.5	37	13	12	1.0	25	52	HS 90
80-100	3 1/8-4	16	7	5-5.5	37	13	12	1.0	10	53	HS 100
90-110	3 1/2-4 3/8	16	7	5-5.5	37	13	12	1.0	10	53	HS 110
100-120	4-4 3/4	16	7	5-5.5	37	13	12	1.0	10	58	HS 120
110-130	4 3/8-5 1/8	16	7	5-5.5	37	13	12	1.0	10	60	HS 130
120-140	4 3/4-5 1/2	16	7	5-5.5	37	13	12	1.0	10	63	HS 140
130-150	5 1/8-5 7/8	16	7	5-5.5	37	13	12	1.0	5	69	HS 150
140-160	5 1/2-6 1/4	16	7	5-5.5	37	13	12	1.0	5	71	HS 160
150-170	5 7/8-6 5/8	16	7	5-5.5	37	13	12	1.0	5	74	HS 170
160-180	6 1/4-7	16	7	5-5.5	37	13	12	1.0	5	77	HS 180
170-190	6 1/2-7 1/2	16	7	5-5.5	37	13	12	1.0	1	79	HS 190
180-200	7 1/8-8	16	7	5-5.5	37	13	12	1.0	1	81	HS 200
190-210	7 1/2-8 1/4	16	7	5-5.5	37	13	12	1.0	1	86	HS 210
200-220	8-8 3/4	16	7	5-5.5	37	13	12	1.0	1	92	HS 220
210-230	8 1/8-9	16	7	5-5.5	37	13	12	1.0	1	98	HS 230
220-240	8 3/4-9 3/8	16	7	5-5.5	37	13	12	1.0	1	101	HS 240
230-250	9-9 3/4	16	7	5-5.5	37	13	12	1.0	1	105	HS 250
240-260	9 3/8-10 1/4	16	7	5-5.5	37	13	12	1.0	1	108	HS 260
250-270	9 3/4-10 1/2	16	7	5-5.5	37	13	12	1.0	1	112	HS 270
260-280	10 1/4-11	16	7	5-5.5	37	13	12	1.0	1	116	HS 280



# High-Performance Hose Clips

## made of Stainless Steel W5 (DIN 3017)

- High performance hose clips made of stainless steel W5
- Optimum sealing through high band tension – maximum strip-safety
- Hose-protective through rounded edges
- Stamped band
- Thinner screw body with new position, therefore improved torque
- Material and clip 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 various media

### Materials

- Band, Body, Screw: Stainless steel W5
- Special Screw Driver: Chromed steel/ plastic

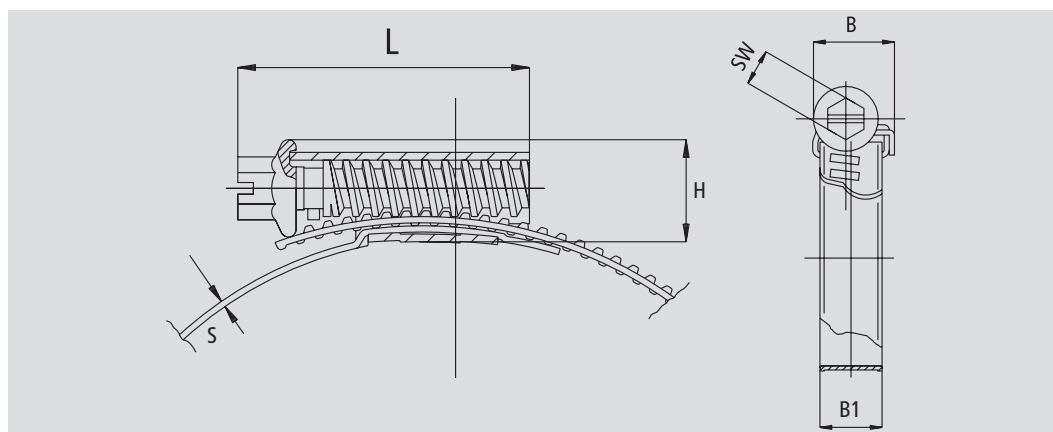
Norm	
DIN 3017	

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

Range	torque		Band-width				Weight	Type No.		
	B	SW	Max. Nm.	L	H	band-thickness				
mm	inch									
8-12	5/18-1/2	10.5 6	1.5	17	9.5	8	0.7	100	6	HSE 12
8-16	5/18-5/8	14 7	2-2.5	21	14	9	0.8	100	11	HSE 16
12-20	1/2-3/4	14 7	2-2.5	24	14	9	0.8	100	13	HSE 20
16-25	5/8-1	14 7	3-3.5	24	14	9	0.8	100	14	HSE 25
20-32	3/4-1 1/4	14 7	3-3.5	24	14	9	0.8	100	15	HSE 32
25-40	1-1 5/8	14 7	3-3.5	26	14	9	0.8	50	18	HSE 40
32-50	1 1/4-2	14 7	3-3.5	26	14	9	0.8	50	18	HSE 50
40-60	1 5/8-2 3/8	14 7	3-3.5	26	14	9	1.0	25	20	HSE 60
50-70	2-2 3/4	14 7	3-3.5	26	14	9	1.0	25	21	HSE 70
60-80	2 3/8-3 1/8	14 7	3-3.5	26	14	9	1.0	25	23	HSE 80
70-90	2 3/4-3 1/2	14 7	3-3.5	26	14	9	1.0	25	25	HSE 90
80-100	3 1/8-4	14 7	3-3.5	26	14	9	1.0	10	28	HSE 100

### Special hexagon screw driver of chromed steel with plastic handle

Version	SW		Weight	Type No.
Rigid	7	1	89	SR STARR
Flexible	7	1	134	SR FLEX.



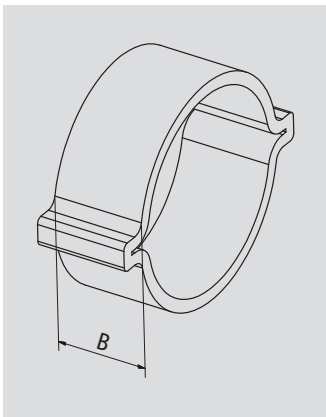


# Double-Ear Hose Clips

- 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 risk of injury, closed and unremovable connection
- Suitable for assembly of many hoses and fittings for use with various media

## Materials

- Clips: Unbreakable special reliable steel, zinc-plated and blue chromated (free of chrome VI)



100
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## Double-Ear-Hose Clips

Hose-o.D./ Range	B	Weight	Type No.
5-7	5.5	1	ZOS 5-7
7-9	6	2	ZOS 7-9
9-11	6	2	ZOS 9-11
11-13	6	3	ZOS 11-13
13-15	7	4	ZOS 13-15
14-17	7.5	4	ZOS 14-17
15-18	8	5	ZOS 15-18
17-20	8	5	ZOS 17-20
19-21	7	5	ZOS 19-21
20-23	9	8	ZOS 20-23
22-25	9	9	ZOS 22-25
23-27	9	9	ZOS 23-27
25-28	9	10	ZOS 25-28
27-31	9	12	ZOS 27-31
31-34	9	13	ZOS 31-34
34-37	9	16	ZOS 34-37
37-40	9	17	ZOS 37-40
40-43	9	18	ZOS 40-43
Special assembly pincer		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 use with various media

## Materials

- Body: redhotted steel, zinc-plated and yellow passivated

Max. Working Pressure									
PN 16 bar									
for hose									
D	DIN 20018	Water	PVC	L	D1	Assembly-M.	Weight	☐	Type No.
12.5				17	8.5	SPR 333	3	100	LPH-12,5
13.5			6x3	20	9.3	SPR 333	5	100	LPH-13,5
14.5	6x3.5			17	10	SPR 333	5	100	LPH-14,5
16			8x3	17	11.5	SPR 333	5	100	LPH-16
18	9x3.5		10x3	20	13.5	SPR 333	7	100	LPH-18
19			12x3	20	13.9	SPR 333	9	100	LPH-19
19.5				26	14.5	SPR 333	10	100	LPH-19,5
21				26	14.5	SPR 333	12	100	LPH-21
22				32	17	SPR 333	16	100	LPH-22
23		13x3		32	17	SPR 333	18	100	LPH-23
25	13x5			32	17		19	100	LPH-25
28	15x6			32	20.5		22	100	LPH-28
30.5		19x4		33	24.3		24	100	LPH-30
33	19x6			35	24.8		40	100	LPH-33
38		25x4.5		35	28		47	25	LPH-38
41	25x7			40	30		64	25	LPH-41

For higher Working Pressure we recommend hydraulic crimping with turned steel-ferrules type PH (☐ page 261) 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
- **Inexpensive:** 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 o.D./						
Hose i.D.	Range	suitable ferrule	e.g. for fitting	☐	Weight	Type No.
3-20	10-22	LPH 12.5-23	Pneumatic-Connect., ES-Couplings	1	12.2	SPR-333

