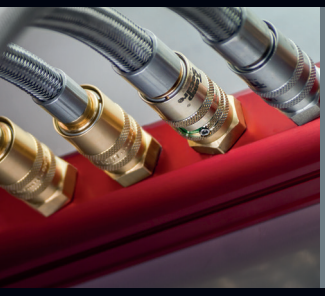
# LÜDECKE

Since 1930. The perfect connection.




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

Edition 1.1



Temp Secure by LÜDECKE



MADE IN GERMANY
EFFICIENCY by LÜDECKE
TEMPERATURE REGULATION



LÜDECKE MADE IN GERMANY

# Patented Safety
# for Maximum Reliability




The patented TempSecure by **LÜDECKE**® temperature regulation quick connect coupling system features an automatic safety locking mechanism which prevents unintentional disconnection and unlocking.

As a result, this coupling is especially suited when using aggressive media as well as for temperature regulation applications with warm or hot water and tempered oil between +20°C and +220°C*.
Superior FKM O-rings make the coupling an ideal media carrier especially in high-temperature applications.

*subject to used media

**Advantages:**

- Maximum safety against unintended disconnection and unlocking
- Simple and intuitive coupling process
- High-temperature seals for best performance
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications
- Available for almost all **LÜDECKE** temperature regulation series in various sizes, materials, connection and valve types

Temp® Secure by LÜDECKE

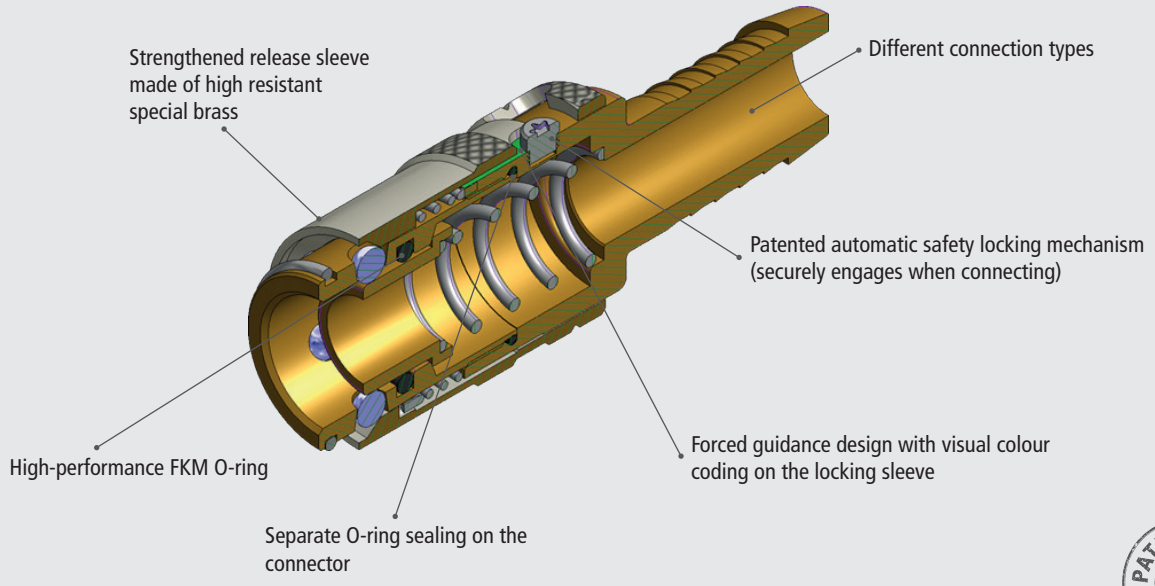
## The Guardian Angel for the Plastics Processing Industry

TempSecure by **LÜDECKE**® temperature regulation quick connect couplings - highest flexibility due to different sizes and connection types.



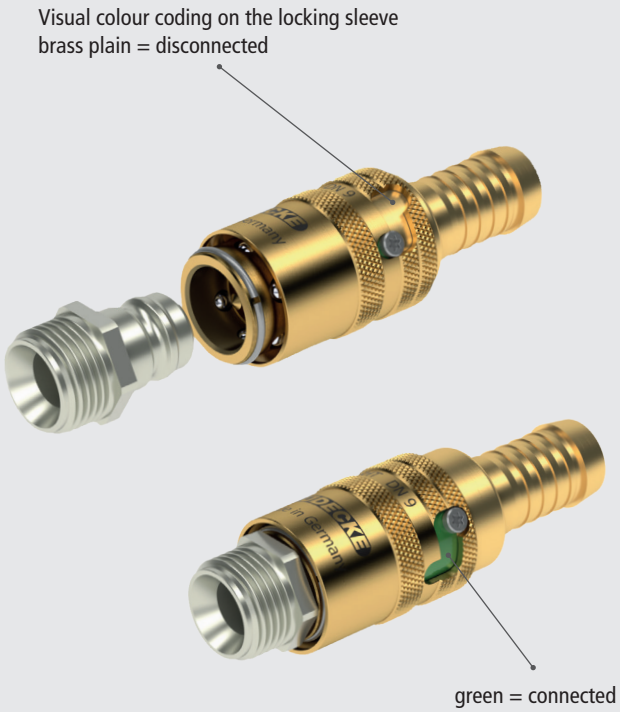


# High-Quality Materials




PATENTED • PATENTED

# Easy - Reliable - Quick




The TempSecure by **LÜDECKE**® temperature regulation quick connect coupling system is characterized by its simple and intuitive connecting process. Even under difficult circumstances and obstructed view, this enables safe operation.

The connection is made via automatic locking.
An additional colour coding on the locking sleeve clearly indicates correct and secure connection.

The disconnecting process can be performed blindly due to the forced guidance of the locking sleeve. However, this requires a deliberate manual unlocking effort. An accidental or unintentional disconnection is almost impossible.

# Functional Principle:





Coupling with one-hand operation - To connect the system, simply push the plug into the safety coupling. The release sleeve automatically slides forward in a twisting motion and engages into the final safety lock position.
The coupling is now firmly connected to the plug and secured against unintentional opening.





To release the plug from the safety coupling, the sleeve has to be pulled back manually and with force. The plug can only be removed from the safety coupling by deliberately pulling/ twisting.

# High-Performance FKM



The temperature regulation couplings of the TempSecure by **LÜDECKE®** series contain a high-performance FKM sealing ring which has been developed for the special requirements of high-temperature applications.

- Extreme heat resistance up to 220°C continuous temperature (oil: 220°C, water: 180°C, air: 220°C)
- High resistance against synthetic oils used as tempered media
- Very good chemical resistance and high resistance against aliphatic hydrocarbons (fuels)
- Steam/ hot water optimised

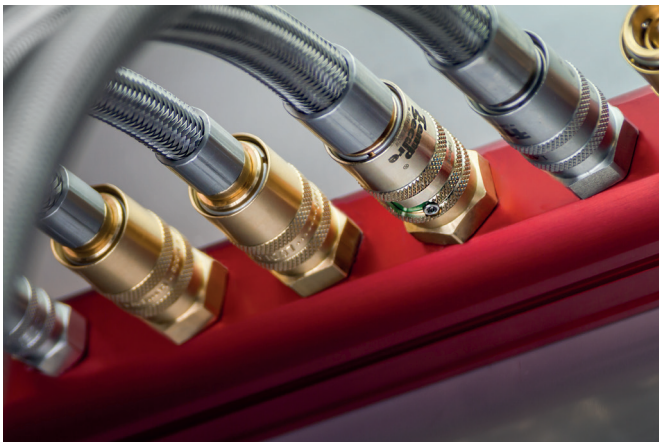
On request, the high-performance FKM sealing ring is also available for other temperature regulation couplings.

Other special seals (e.g. EPDM, FFKM) on request.

The TempSecure coupling is especially suited for applications which require high levels of safety due to the media used and their high temperature.





**The reliable partner for temperature regulation applications**

Accidentally decoupled and unlocked?
Not with the TempSecure by **LÜDECKE**® product range:
Effective protection against injuries and production downtimes.



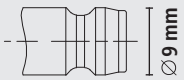
# Temperature Regulation Quick Connect Couplings

## Series ESHMT Plug size 9 mm - with Automatic Locking Mechanism

**DN 6**

- One-hand quick connect couplings with small dimensions and patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with warm or hot water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- To be coupled with plug Series ESHM DN 6
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

**Plug Profile (original size)**




### Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Plug: Brass MS 58 plain/ nickel-plated
- Balls: Stainless steel 1.4034
- Springs, retaining ring: Stainless steel 1.4310
- Seals: High-Performance FKM

Also in Stainless Steel **Series ESHMTE** Page 7

European Plug Profile

| Max. Working Pressure | Temperature | DN | Thread | Operation | Type of valve | Media | |
|---|---|---|---|---|---|---|---|
| PN 15 bar | +20°C – +220°C* | 6 | ISO 228/ DIN 13 | One-hand | single/double/straight-thr. | Tempered media | 5 |







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

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

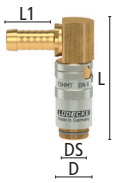






**Couplings with 45° standard hose stem without/with valve**

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







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

| Hose connection | L | D | L1 | DS | Passage | Weight | Type No w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|
| Hose i.D. 9 | 56 | 18 | 22.5 | 9 | 6 | 91 | ESHMT 9 TL90 | ESHMT 9 TL90AB |

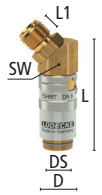






**Couplings with straight male long thread without/with valve (inner cone DIN 3863)**

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/4 m | 56.5 | 17 | 18 | 11 | 9 | 6 | 73 | ESHMT14AL | ESHMT14ALAB |
| G 3/8 m | 56.5 | 19 | 18 | 11 | 9 | 6 | 76 | ESHMT38AL | ESHMT38ALAB |
| M 14x1.5 m | 56.5 | 17 | 18 | 11 | 9 | 6 | 76 | ESHMT1415AL | ESHMT1415ALAB |
| M 16x1.5 m | 57 | 19 | 18 | 11 | 9 | 6 | 76 | ESHMT1615AL | ESHMT1615ALAB |

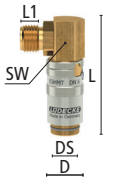


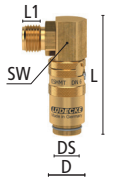




**Couplings with 45° male long thread without/with valve (inner cone DIN 3863)**

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/4 m | 56 | 17 | 18 | 11 | 9 | 6 | 85 | ESHMT14AL45 | ESHMT14AL45AB |
| G 3/8 m | 56 | 17 | 18 | 11 | 9 | 6 | 101 | ESHMT38AL45 | ESHMT38AL45AB |
| M 14x1.5 m | 56 | 17 | 18 | 11 | 9 | 6 | 87 | ESHMT1415AL45 | ESHMT1415AL45AB |
| M 16x1.5 m | 56 | 17 | 18 | 11 | 9 | 6 | 87 | ESHMT1615AL45 | ESHMT1615AL45AB |




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/4 m | 56 | 17 | 18 | 11 | 9 | 6 | 94 | ESHMT14AL90 | ESHMT14AL90AB |
| G 3/8 m | 56 | 17 | 18 | 11 | 9 | 6 | 100 | ESHMT38AL90 | ESHMT38AL90AB |
| M 14x1.5 m | 56 | 17 | 18 | 11 | 9 | 6 | 96 | ESHMT1415AL90 | ESHMT1415AL90AB |
| M 16x1.5 m | 56 | 17 | 18 | 11 | 9 | 6 | 96 | ESHMT1615AL90 | ESHMT1615AL90AB |

Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

Temp Secure® by LUDECKE

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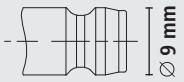
# Temperature Regulation Quick Connect Couplings

## plug size 9 mm – Stainless Steel 1.4305 with Automatic Locking Mechanism **Series ESHMTE**

- One-hand quick connect couplings with reduced dimensions made of stainless steel 1.4305 and patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and sleeve made of stainless steel
- For temperature regulation applications with warm or hot water as well as tempered oil e.g. in clean-room applications
- Optional with straight-through, single or double shut-off valves
- Please connect with plug series ESHME DN 6
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

**DN 6**

**Plug Profile (original size)**




### Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: High-Performance FKM

| Max. Working Pressure | Temperature | DN | Thread | Operation | Type of valve | Media | |
|---|---|---|---|---|---|---|---|
| PN 15 bar | +20°C – +220°C* | 6 | ISO 228/ DIN 13 | One-hand | single/double/straight-through | Tempered media | 5 |

European Plug Profile

**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 | 52 | 18 | 22.5 | 9 | 6 | 79 | ESHMTE 9 TL45 | ESHMTE 9 TL45AB |




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

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



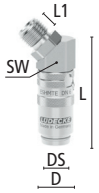

**Couplings with straight male long thread without/with valve (inner cone DIN 3863)**

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




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o. Valve | Type No. w. Valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/4 m | 52 | 17 | 18 | 12 | 9 | 7 | 83 | ESHMTE14AL45 | ESHMTE14AL45AB |
| M 14x1.5 m | 52 | 17 | 18 | 11 | 9 | 6 | 79 | ESHMTE1415AL45 | ESHMTE1415AL4AB |




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o. Valve | Type No. w. Valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/4 m | 56 | 17 | 18 | 12 | 9 | 7 | 86 | ESHMTE14AL90 | ESHMTE14AL90AB |
| M 14x1.5 m | 56 | 17 | 18 | 11 | 9 | 6 | 88 | ESHMTE1415AL90 | ESHMTE1415AL9AB |




Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

Temp Secure® by LUDECKE — PATENTED • PATENTED

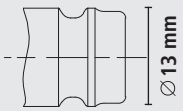
# Temperature Regulation Quick Connect Couplings

## Series ESHT Plug size 13 mm – with Automatic Locking Mechanism

**DN 9**

- One-hand quick connect couplings with patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with warm or hot water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- To be coupled with plug series ESH DN 9
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

**Plug Profile (original size)**



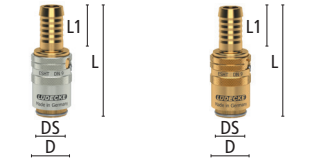

### Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: high resistant special brass plain/ nickel-plated
- Plug: Brass MS 58 plain/ nickel-plated
- Balls: Stainless steel 1.4034
- Springs, retaining ring: Stainless steel 1.4310
- Seals: High-Performance FKM

| Max. Working Pressure | Temperature | DN | Thread | Operation | Type of valve | Media | |
|---|---|---|---|---|---|---|---|
| PN 15 bar | +20°C – +220°C* | 9 | ISO 228 / DIN 13 / DIN 158 | One-hand | Single/double/straight-through | Tempered media | 5 |

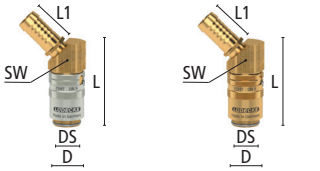
Also in Stainless steel **Series ESHTE** Page 9

European Plug Profile



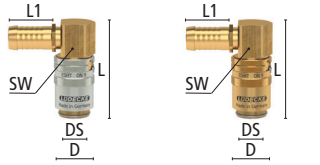

**Couplings with straight standard hose stem without/with valve**

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



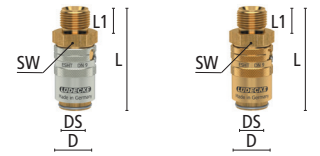

**Couplings with 45° standard hose stem without/with valve**

| Hose connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| Hose i.D. 13 | 55.5 | 22 | 23.5 | 25 | 13 | 9 | 138 | ESHT 13 TL45 | ESHT 13 TL45AB |



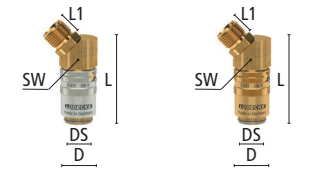

**Couplings with 90° standard hose stem without/with valve**

| Hose connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| Hose i.D. 13 | 55.5 | 22 | 23.5 | 25 | 13 | 9 | 140 | ESHT 13 TL90 | ESHT 13 TL90AB |



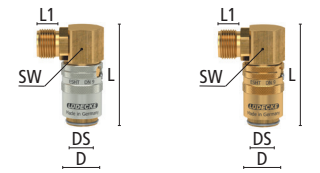

**Couplings with straight male long thread without/with valve (inner cone DIN 3863)**

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/4 m | 56 | 22 | 23.5 | 11 | 13 | 9 | 98 | ESHT14AL | ESHT14ALAB |
| G 3/8 m | 56 | 22 | 23.5 | 12.5 | 13 | 9 | 94 | ESHT38AL | ESHT38ALAB |
| M 16x1.5 m | 56 | 22 | 23.5 | 12.5 | 13 | 9 | 93 | ESHT1615AL | ESHT1615ALAB |
| M 18x1.5 m | 56 | 22 | 23.5 | 12.5 | 13 | 9 | 100 | ESHT1815AL | ESHT1815ALAB |




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/4 m | 55.5 | 22 | 23.5 | 11 | 13 | 9 | 130 | ESHT14AL45 | ESHT14AL45AB |
| G 3/8 m | 55.5 | 22 | 23.5 | 12.5 | 13 | 9 | 134 | ESHT38AL45 | ESHT38AL45AB |
| M 16x1.5 m | 55.5 | 22 | 23.5 | 12 | 13 | 9 | 132 | ESHT1615AL45 | ESHT1615AL45AB |




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/4 m | 55.5 | 22 | 23.5 | 11 | 13 | 9 | 130 | ESHT14AL90 | ESHT14AL90AB |
| G 3/8 m | 55.5 | 22 | 23.5 | 12.5 | 13 | 9 | 134 | ESHT38AL90 | ESHT38AL90AB |
| M 16x1.5 m | 55.5 | 22 | 23.5 | 12 | 13 | 9 | 132 | ESHT1615AL90 | ESHT1615AL90AB |

Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

Temp Secure® by LUDECKE

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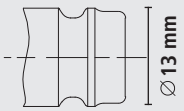
# Temperature Regulation Quick Connect Couplings

## plug size 13 mm – Stainless Steel 1.4305 with Automatic Locking Mechanism **Series ESHTE**

- One-hand quick connect couplings made of stainless steel 1.4305 with patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and sleeve made of stainless steel
- For temperature regulation applications with warm or hot water as well as tempered oil e.g. in clean-room applications
- Optional with straight-through, single or double shut-off valves
- Please connect with plug series ESHE DN 9
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

**DN 9**

**Plug Profile (original size)**




### Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: High-Performance FKM

| Max. Working Pressure | Temperature | DN | Thread | Operation | Type of valve | Media | |
|---|---|---|---|---|---|---|---|
| PN 15 bar | +20°C – +220°C* | 9 | ISO 228/ DIN 13 | One-hand | single/double/straight-through | Tempered media | 5 |

European Plug Profile

**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 |



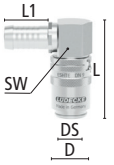

**Couplings with 45° standard hose stem without/with valve**

| Hose connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o. Valve | Type No. w. Valve |
|---|---|---|---|---|---|---|---|---|---|
| Hose i.D. 13 | 55.5 | 19 | 23.5 | 25 | 13 | 9 | 117 | ESHTE 13 TL45 | ESHTE 13 TL45AB |



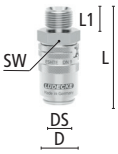

**Couplings with 90° standard hose stem without/with valve**

| Hose connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o. Valve | Type No. w. Valve |
|---|---|---|---|---|---|---|---|---|---|
| Hose i.D. 13 | 55.5 | 19 | 23.5 | 25 | 13 | 9 | 124 | ESHTE 13 TL90 | ESHTE 13 TL90AB |



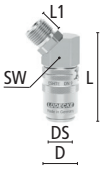

**Couplings with straight male long thread without/with valve (inner cone DIN 3863)**

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o. Valve | Type No. w. Valve |
|---|---|---|---|---|---|---|---|---|---|
| G 3/8 m | 56 | 22 | 23.5 | 12.5 | 13 | 9 | 90 | ESHTE38AL | ESHTE38ALAB |
| M 16x1.5 m | 56 | 22 | 23.5 | 12.5 | 13 | 9 | 90 | ESHTE1615AL | ESHTE1615ALAB |




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o. Valve | Type No. w. Valve |
|---|---|---|---|---|---|---|---|---|---|
| G 3/8 m | 55.5 | 19 | 23.5 | 12.5 | 13 | 9 | 113 | ESHTE38AL45 | ESHTE38AL45AB |
| M 16x1.5 m | 55.5 | 19 | 23.5 | 12 | 13 | 9 | 112 | ESHTE1615AL45 | ESHTE1615AL45AB |




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o. Valve | Type No. w. Valve |
|---|---|---|---|---|---|---|---|---|---|
| G 3/8 m | 55.5 | 19 | 23.5 | 12.5 | 13 | 9 | 120 | ESHTE38AL90 | ESHTE38AL90AB |
| M 16x1.5 m | 55.5 | 19 | 23.5 | 12 | 13 | 9 | 119 | ESHTE1615AL90 | ESHTE1615AL90AB |




Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

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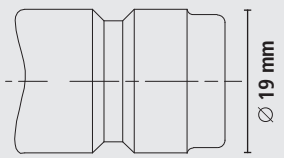
# Temperature Regulation Quick Connect Couplings

## Series ESHGT Plug size 19 mm – with Automatic Locking Mechanism

**DN 13**

- One-hand quick connect couplings with patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with warm or hot water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- To be coupled with plug series ESHG DN 13
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

**Plug Profile (original size)**



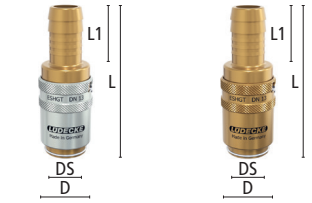

### Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310 • Balls: Stainless steel 1.4034 • Seals: High-Performance FKM

| Max. Working Pressure | Temperature | DN | Thread | Operation | Type of valve | Media | |
|---|---|---|---|---|---|---|---|
| PN 15 bar | +20°C – +220°C* | 13 | ISO 228 / DIN 13 | One-hand | Single/double/straight-through | Tempered media | 5 |

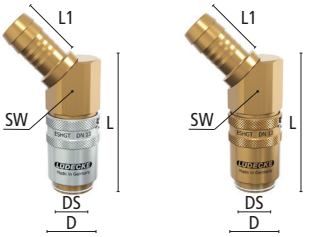
Also in Stainless steel **Series ESHGTE** Page 11

European Plug Profile



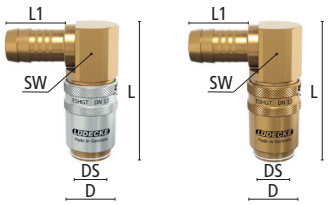

**Couplings with straight standard hose stem without/with valve**

| Hose connection | L | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|
| Hose i.D. 13 | 82 | 32.5 | 25 | 19 | 9 | 131 | ESHGT 13 TL | ESHGT 13 TLAB |
| Hose i.D. 19 | 90 | 32.5 | 34 | 19 | 14 | 210 | ESHGT 19 TL | ESHGT 19 TLAB |



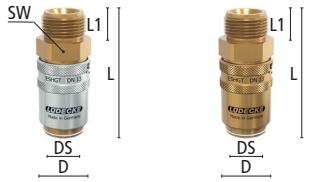

**Couplings with 45° standard hose stem without/with valve**

| Hose connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| Hose i.D. 13 | 82 | 30 | 32.5 | 25 | 19 | 9 | 131 | ESHGT 13 TL45 | ESHGT 13 TL45AB |
| Hose i.D. 19 | 90 | 30 | 32.5 | 34 | 19 | 14 | 210 | ESHGT 19 TL45 | ESHGT 19 TL45AB |



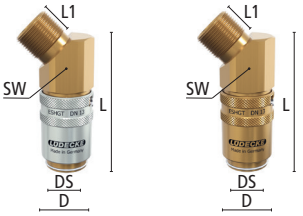

**Couplings with 90° standard hose stem without/with valve**

| Hose connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| Hose i.D. 13 | 82 | 30 | 32.5 | 25 | 19 | 9 | 131 | ESHGT 13 TL90 | ESHGT 13 TL90AB |
| Hose i.D. 19 | 90 | 30 | 32.5 | 34 | 19 | 14 | 210 | ESHGT 19 TL90 | ESHGT 19 TL90AB |



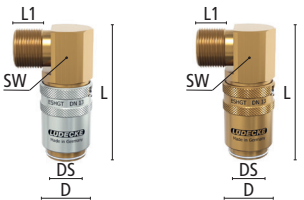

**Couplings with straight male long thread without/with valve (inner cone DIN 3863)**

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/2 m | 76 | 30 | 32.5 | 15 | 19 | 13 | 226 | ESHGT12AL | ESHGT12ALAB |
| G 3/4 m | 77 | 30 | 32.5 | 16 | 19 | 13 | 252 | ESHGT34AL | ESHGT34ALAB |
| M 24x1.5 m | 77 | 30 | 32.5 | 16 | 19 | 13 | 242 | ESHGT2415AL | ESHGT2415ALAB |




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/2 m | 81 | 30 | 32.5 | 16 | 19 | 13 | 332 | ESHGT12AL45 | ESHGT12AL45AB |
| G 3/4 m | 81 | 30 | 32.5 | 16 | 19 | 13 | 357 | ESHGT34AL45 | ESHGT34AL45AB |
| M 24x1.5 m | 81 | 30 | 32.5 | 17 | 19 | 13 | 348 | ESHGT2415AL45 | ESHGT2415AL45AB |




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/2 m | 81 | 30 | 32.5 | 16 | 19 | 13 | 334 | ESHGT12AL90 | ESHGT12AL90AB |
| G 3/4 m | 81 | 30 | 32.5 | 16 | 19 | 13 | 361 | ESHGT34AL90 | ESHGT34AL90AB |
| M 24x1.5 m | 81 | 30 | 32.5 | 17 | 19 | 13 | 350 | ESHGT2415AL90 | ESHGT2415AL90AB |

Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

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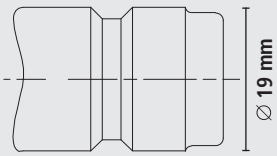
# Temperature Regulation Quick Connect Couplings

## plug size 19 mm – Stainless Steel 1.4305 with Automatic Locking Mechanism **Series ESHGTE**

- One-hand quick connect couplings made of stainless steel 1.4305 with patented automatic safety locking mechanism
- Forced guidance design with visual coding on the locking sleeve
- Combined pressure-torsion spring and sleeve made of stainless steel
- For temperature regulation applications with warm or hot water as well as tempered oil e.g. in clean-room applications
- Optional with straight-through, single or double shut-off valves
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

**DN 13**

**Plug Profile (original size)**




### Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.4034
- Seals: High-Performance FKM

| Max. Working Pressure | Temperature | DN | Thread | Operation | Type of valve | Media | |
|---|---|---|---|---|---|---|---|
| PN 15 bar | +20°C – +220°C* | 13 | ISO 228/ DIN 13 | One-hand | single/double/ straight-through | Tempered media | 5 |

European Plug Profile

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

| Hose connection | L | D | L1 | DS | Passage | Weight | Type No. w/o. Valve | Type No. w. Valve |
|---|---|---|---|---|---|---|---|---|
| Hose i.D. 13 | 82 | 34 | 25 | 19 | 9.5 | 221 | ESHGTE 13 TL | ESHGTE 13 TLAB |
| Hose i.D. 19 | 90 | 34 | 34 | 19 | 14 | 239 | ESHGTE 19 TL | ESHGTE 19 TLAB |




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o. Valve | Type No. w. Valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/2 m | 76 | 30 | 34 | 15 | 19 | 13 | 255 | ESHGTE 12 A | ESHGTE 12 AAB |
| G 3/4 m | 77 | 30 | 34 | 16 | 19 | 13 | 279 | ESHGTE 34 A | ESHGTE 34 AAB |
| M 24x1.5 m | 77 | 30 | 34 | 16 | 19 | 13 | 269 | ESHGTE 2415 A | ESHGTE 2415 AAB |




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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o. Valve | Type No. w. Valve |
|---|---|---|---|---|---|---|---|---|---|
| G 1/2 f | 69.5 | 30 | 34 | 12 | 19 | 13 | 252 | ESHGTE 12 I | ESHGTE 12 IAB |
| G 3/4 f | 69.5 | 32 | 34 | 12 | 19 | 13 | 244 | ESHGTE 34 I | ESHGTE 34 IAB |
| M 24x1.5 f | 69.5 | 32 | 34 | 12 | 19 | 13 | 251 | ESHGTE 2415 I | ESHGTE 2415 IAB |




**Plugs with standard hose stem without valve**

| Hose connection | L | D | L1 | L2 | DS | Passage | Weight | Type No. |
|---|---|---|---|---|---|---|---|---|
| Hose i.D. 13 | 63 | 22 | 34 | 27 | 19 | 9 | 55 | ESHGE 13 SL |
| Hose i.D. 19 | 63 | 25 | 34 | 27 | 19 | 13 | 78 | ESHGE 19 SL |




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

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




**Plugs with straight female thread without valve**

| Thread connection | L | SW | L1 | L2 | DS | Passage | Weight | Type No. |
|---|---|---|---|---|---|---|---|---|
| G 1/2 f | 42 | 27 | 12 | 27 | 19 | 13 | 72 | ESHGE 12 NI |
| G 3/4 f | 42 | 32 | 12 | 27 | 19 | 13 | 86 | ESHGE 34 NI |




Other sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

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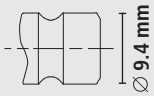
# Temperature Regulation Quick Connect Couplings

## Series ESDMT Plug size 9.4 mm – with Automatic Locking Mechanism

**DN 6**

- One-hand quick connect couplings with small dimensions and patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with warm or hot water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- To be coupled with plug series ESDM DN 6
- Versions with additional O-ring sealing at connection port to prevent leakage with high-temperature applications

**Plug Profile (original size)**

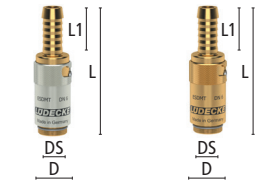



### Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310 • Balls: Stainless steel 1.4034 • Seals: High-Performance FKM

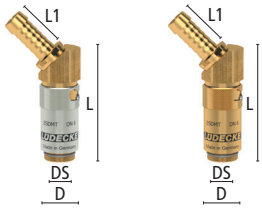
| Max. Working Pressure | Temperature | DN | Thread | Operation | Type of valve | Media | |
|---|---|---|---|---|---|---|---|
| PN 15 bar | +20°C – +220°C* | 6 | ISO 228/ DIN 13 | One-hand | Single/double/straight-thr. | Tempered media | 5 |

International Plug Profile



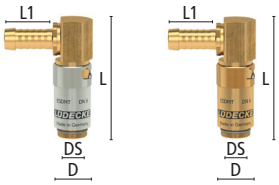

**Couplings with straight standard hose stem without/with valve**

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



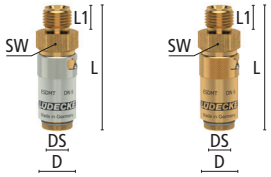

**Couplings with 45° standard hose stem without/with valve**

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



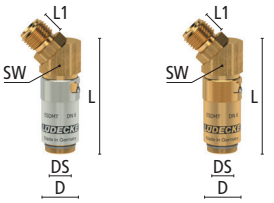

**Couplings with 90° standard hose stem without/with valve**

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



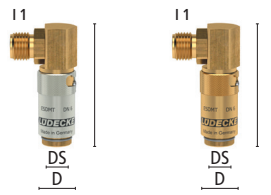

**Couplings with straight male long thread without/with valve (inner cone DIN 3863)**

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




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

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




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

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

Other types/ sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

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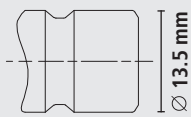
# Temperature Regulation Quick Connect Couplings

## Plug size 13.5 mm – with Automatic Locking Mechanism **Series ESDT**

- One-hand quick connect couplings with patented automatic safety locking mechanism
- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with warm or hot water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- To be coupled with plug series ESD DN 9
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications

**DN 9**

**Plug Profile (original size)**




### Materials

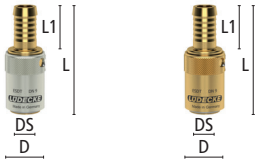
- Body, valve body, valve: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Plug: Brass MS 58 plain/ nickel-plated
- Balls: Stainless steel 1.4034
- Springs, Retaining ring: Stainless steel 1.4310
- Seals: High-Performance FKM

| Max. Working Pressure | Temperature | DN | Thread | Operation | Type of valve | Media | |
|---|---|---|---|---|---|---|---|
| PN 15 bar | +20°C – +220°C* | 9 | ISO 228/ DIN 13 | One-hand | Single/double/straight-through | Tempered media | 5 |

International Plug Profile

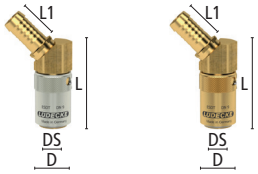
**Couplings with straight standard hose stem without/with valve**

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



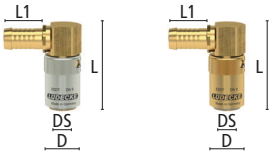

**Couplings with 45° standard hose stem without/with valve**

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



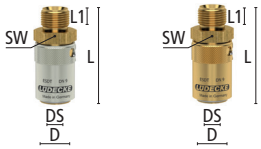

**Couplings with 90° standard hose stem without/with valve**

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



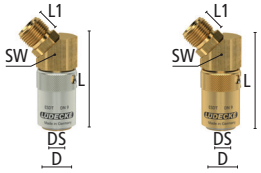

**Couplings with straight male long thread without/with valve (inner cone DIN 3863)**

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



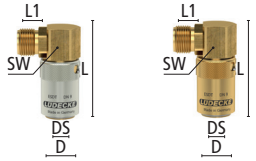

**Couplings with 45° male long thread without/with valve (inner cone DIN 3863)**

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




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

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




Other types / sizes on request

*subject to media (oil: 220°C, water: 180°C, air: 220°C)

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