

Since 1930. The perfect connection.





Temperature Regulation Quick Connect Coupling System with Automatic Locking Mechanism

Product Range 2018 / 19























LUDECKE TempSecure®

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.





*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

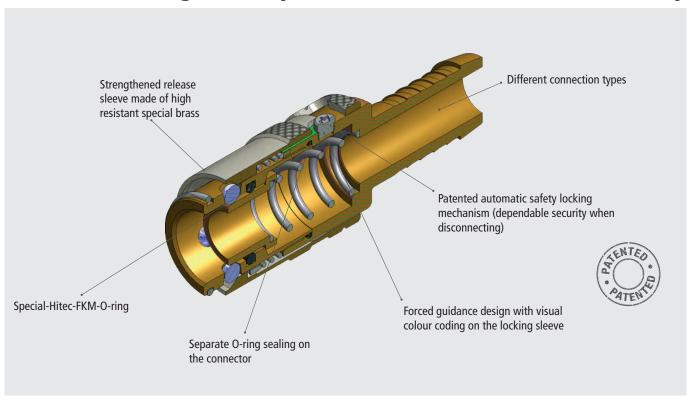
- High temperature seals (Special-Hitec-FKM-O-ring) with resilient characteristics
- · Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

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 www ESDT DN 9 (completely compatible to International plug profile)
- NEW: Series ESHMT DN 6 and ESHT DN 9 also available in stainless steel
- · Optionally available straight-through, single or double shut-off



High-Quality Materials Guarantee Best Reliability



The Guardian Angel for the Plastics Industry

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





Easy - Reliable - Quick



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







The reliable partner in the field of temperature regulation applications

By mistake uncoupled and unlocked? Not with the **LUDECKE** TempSecure® program: Effective protection against injury and loss of production.

Series ESHMT Plug size 9 mm – High Resistant Special Brass

with Automatic Locking Mechanism





Plug Profile (original size)





















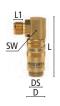












- Forced guidance design with visual colour coding on the locking sleeve
- · Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optionally available with straight-through, 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
- Springs, retaining ring: Stainless steel 1.4310
- O-rings: Special-Hitec-FKM-O-ring

| • | Balls: Stainless steel 1.4034 | |
|---|-------------------------------|--|
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| • | migs. | Special | micc | I IXIVI | 0 11 | ···9 |
|---|-------|---------|------|---------|------|------|
| | | | | | | |

| Max. Working Pressure | rking Pressure Temperature DN | | Thread | Operation | Type of valve | Media | 9 |
|-----------------------|-------------------------------|--|--------------------------|-----------|-----------------------------|----------------|---|
| PN 15 bar | N 15 bar -20°C to +200°C* 6 | | ISO 288/ DIN 13 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 thread

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 | e 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 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 | 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 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 | 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!

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

plug size 13 mm – High Resistant Special Brass Series ESHT

with Automatic Locking Mechanism

- Forced guidance design with visual colour coding on the locking sleeve
- · Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with hot or cold water as well as tempered oil
- 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
- 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 | 9 |
|-----------------------|-----------------|----|------------------|-----------|-----------------------------|----------------|---|
| PN 15 bar | -20°C - +200°C* | 9 | ISO 228 / DIN 13 | One-hand | single/double/straight-thr. | Tempered media | 5 |
| | | | | | | | |

Plug Profile (original size)





































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 | e 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 | DS | 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 thread

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 valv | ve 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 long thread without/with valve (inner cone DIN 3863)

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valv | e Type No. w valve | |
|-------------------|----|----|------|------|----|---------|--------|-------------------|--------------------|--|
| G 3/8 m | 55 | 22 | 23.5 | 12.5 | 13 | 9 | 134 | ESHT38AL45 | ESHT38AL45AB | |
| M 16v1 F m | EE | 22 | 22 E | 12 | 12 | 0 | 122 | ECUTACAE ALAE | CCUT1C1EAL4EAD | |

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 valv | e 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!

^{*}subject to media (oil: 200°C, water: 160°C, air: 200°C)



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





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 stainless steel
- For temperature regulation applications with hot or cold water as well as tempered oil i.e. in clean-room production
- Optionally available with straight-through, single or double shut-off valves
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications
 Materials
- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- 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 thread

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

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

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

| Thread connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|-------------------|----|----|----|----|----|---------|--------|--------------------|------------------|
| G 1/4 m | 52 | 17 | 18 | 11 | 9 | 6 | 83 | ESHMTE14AL45 | ESHMTE14AL45AB |
| M 14x1.5 m | 52 | 17 | 18 | 11 | 9 | 6 | 84 | ESHMTE1415AL45 | 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 | 11 | 9 | 6 | 92 | ESHMTE14AL90 | ESHMTE14AL90AB |
| M 14x1.5 m | 56 | 17 | 18 | 11 | 9 | 6 | 93 | ESHMTE1415AL90 | ESHMTE1415AL9AB |

other types / sizes on request!

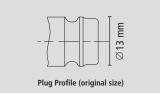
^{*}subject to media (oil: 200°C, water: 160°C, air: 200°C)

plug size 13 mm - Stainless Steel with Automatic Locking Mechanism Series ESHTE

- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of stainless steel
- . For temperature regulation applications with hot or cold water as well as tempered oil i.e. in cleanroom production
- . Optionally available with straight-through, single or double shut-off valves
- · Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications **Materials**
- Body, sleeve, valve body, valve, plug: Stainless steel 1.4305
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- O-rings: Special-Hitec-FKM-O-ring

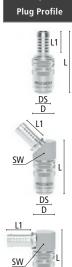
| PN 15 bar -2 | empera | | DN | 10 | Thread | | peration | Type of valve | Media | 9 |
|--|---|--|-----------------------------------|--|--|---|--|---|---|---|
| | 0°C – +2 | 00°C* | 9 | IS | 0 228/ DII | V 13 0 | ne-hand | single/double/straight-thr. | Tempered media | 5 |
| Couplings with ho | 50 60 1 | nnoc | tion | | | | | | | |
| coupings with no | se coi | illec | LIUII | | | | | | | |
| Couplings with str | aight | star | ndard | hose | stem | without/w | ith valve | | | |
| couplings with str | aigiit | Jui | iuuiu | 11030 | Jeein | Without W | idi vaive | | | |
| Hose connection | L | | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve | |
| Hose i.D. 13 | 63 | 2: | 3.5 | 25 | 13 | 9 | 77 | ESHTE 13 TL | ESHTE 13 TLAB | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Couplings with 45 | ° stan | dard | l hose | sten | n with | out/with v | alve | | | |
| | | | | | | | | | | |
| Hose connection | L | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | | |
| Hose i.D. 13 | 55.5 | 22 | 23.5 | 25 | 13 | 9 | 134 | ESHTE 13 TL45 | ESHTE 13 TL45AB | |
| | | | | | | | | | | |
| 6 | 0 - 1 - | | | | | | | | | |
| Couplings with 90 | ° stan | dard | nose | sten | n with | out/with v | aive | | | |
| | | CW | _ | 1.4 | DC | D | 10/- : | Torre No/aab.a | Torre Ne consider | |
| Hose connection | L | SW | | L1 | DS | Passage | Weight | Type No. w/o valve | | |
| Hose i.D. 13 | 55.5 | 22 | 23.5 | 25 | 13 | 9 | 134 | ESHTE 13 TL90 | ESHTE 13 TL90AB | |
| | | | | | | | | | | |
| Counlings with ma | la thi | , o o d | | | | | | | | |
| Couplings with ma | ne un | eau | | | | | | | | |
| Counlings with str | ainht | mal | e lon | n thre | ad wi | thout/with | valve (in | ner cone DIN 3863) | | |
| couplings with str | aigiit | mui | c ion | y ciii c | Juu VVI | ciioac, wicii | varve (iiii | ici conc biit 3003) | | |
| - | | SW | D | L1 | DS | Passage | Weight | Type No. w/o valve | Type No. w valve | |
| Thread connection | L | | | 125 | | | - 3 | | | |
| G 3/8 m | L 56 | | 23.5 | | 13 | 9 | 95 | ESHTE38AL | ESHTE38ALAB | |
| | | 22 | 23.5 | | 13 | 9 | 95 94 | | | |
| G 3/8 m | 56 | 22 | | | | | | ESHTE38AL | ESHTE38ALAB | |
| G 3/8 m | 56 | 22 | | | | | | ESHTE38AL | ESHTE38ALAB | |
| G 3/8 m M 16x1.5 m | 56 56 | 22 22 | 23.5 | 12.5 | 13 | 9 | 94 | ESHTE1615AL | ESHTE38ALAB | |
| G 3/8 m | 56 56 | 22 22 | 23.5 | 12.5 | 13 | 9 | 94 | ESHTE1615AL | ESHTE38ALAB | |
| G 3/8 m M 16x1.5 m | 56 56 | 22 22 22 | 23.5 | 12.5 | 13 | 9 | 94 | ESHTE1615AL | ESHTE38ALAB ESHTE1615ALAB | |
| G 3/8 m M 16x1.5 m Couplings with 45 | 56 56 ° male | 22 22 22 e lon | 23.5 ig thr | 12.5 ead v | 13 vithou | 9 t/with valv | 94 re (inner co | ESHTE38AL ESHTE1615AL one DIN 3863) | ESHTE38ALAB ESHTE1615ALAB | |
| G 3/8 m M 16x1.5 m Couplings with 45 Thread connection | 56 56 ° male L 55.5 | 22 22 22 e lon SW 22 | 23.5 g thr | 12.5 ead v L1 12.5 | 13 vithou DS | 9 t/with valv Passage | 94 re (inner co Weight | ESHTE38AL ESHTE1615AL one DIN 3863) Type No. w/o valve | ESHTE38ALAB ESHTE1615ALAB Type No. w valve | |
| G 3/8 m M 16x1.5 m Couplings with 45 Thread connection G 3/8 m | 56 56 ° male L 55.5 | 22 22 22 e lon SW 22 | 23.5 19 thr 23.5 | 12.5 ead v L1 12.5 | 13 vithou DS 13 | 9 t/with valv Passage 9 | 94 re (inner co Weight 131 | ESHTE38AL ESHTE1615AL one DIN 3863) Type No. w/o valve ESHTE38AL45 | ESHTE38ALAB ESHTE1615ALAB Type No. w valve ESHTE38AL45AB | 1 |
| G 3/8 m M 16x1.5 m Couplings with 45 Thread connection G 3/8 m M 16x1.5 m | 56 56 ° male L 55.5 55.5 | 22 22 22 E lon SW 22 22 | 23.5 ng thr 23.5 23.5 23.5 | 12.5 ead v L1 12.5 12.5 | 13 vithou DS 13 13 | 9 t/with valv Passage 9 9 | 94 Te (inner co Weight 131 129 | ESHTE38AL ESHTE1615AL one DIN 3863) Type No. w/o valve ESHTE38AL45 ESHTE1615AL45 | ESHTE38ALAB ESHTE1615ALAB Type No. w valve ESHTE38AL45AB | |
| G 3/8 m M 16x1.5 m Couplings with 45 Thread connection G 3/8 m | 56 56 ° male L 55.5 55.5 | 22 22 22 E lon SW 22 22 | 23.5 ng thr 23.5 23.5 23.5 | 12.5 ead v L1 12.5 12.5 | 13 vithou DS 13 13 | 9 t/with valv Passage 9 9 | 94 Te (inner co Weight 131 129 | ESHTE38AL ESHTE1615AL one DIN 3863) Type No. w/o valve ESHTE38AL45 ESHTE1615AL45 | ESHTE38ALAB ESHTE1615ALAB Type No. w valve ESHTE38AL45AB | 3 |
| G 3/8 m M 16x1.5 m Couplings with 45' Thread connection G 3/8 m M 16x1.5 m Couplings with 90' | 56 56 ° male L 55.5 55.5 | 22 22 22 SW 22 22 | 23.5 ng thr D 23.5 23.5 23.5 | 12.5 ead v L1 12.5 12.5 | 13 vithou DS 13 13 | t/with valv Passage 9 9 t/with valv | 94 Weight 131 129 The (inner co | ESHTE38AL ESHTE1615AL one DIN 3863) Type No. w/o valve ESHTE38AL45 ESHTE1615AL45 one DIN 3863) | ESHTE38ALAB ESHTE1615ALAB Type No. w valve ESHTE38AL45AB ESHTE1615AL45AB | |
| G 3/8 m M 16x1.5 m Couplings with 45 Thread connection G 3/8 m M 16x1.5 m Couplings with 90 Thread connection | 56 56 ° male L 55.5 55.5 ° male | 22 22 22 SW 22 22 22 SW | 23.5 D 23.5 23.5 23.5 D | 12.5 ead v L1 12.5 12.5 ead v | vithou DS 13 13 | t/with valv Passage 9 9 t/with valv Passage | 94 Weight 131 129 The (inner continue) Weight Weight | ESHTE38AL ESHTE1615AL one DIN 3863) Type No. w/o valve ESHTE38AL45 ESHTE1615AL45 one DIN 3863) Type No. w/o valve | ESHTE38ALAB ESHTE1615ALAB Type No. w valve ESHTE38AL45AB ESHTE1615AL45AE Type No. w valve | |
| G 3/8 m M 16x1.5 m Couplings with 45 Thread connection G 3/8 m M 16x1.5 m Couplings with 90 Thread connection G 3/8 m | 56 56 ° male L 55.5 55.5 ° male L 55.5 | 22 22 22 SW 22 22 22 SW 22 | 23.5 D 23.5 23.5 23.5 D 23.5 | 12.5 ead v L1 12.5 12.5 ead v L1 12.5 | vithou DS 13 13 vithou DS 13 | t/with valv Passage 9 9 t/with valv Passage 9 | 94 Weight 131 129 Te (inner co | ESHTE38AL ESHTE1615AL one DIN 3863) Type No. w/o valve ESHTE38AL45 ESHTE1615AL45 one DIN 3863) Type No. w/o valve ESHTE38AL90 | ESHTE38ALAB ESHTE1615ALAB Type No. w valve ESHTE38AL45AB ESHTE1615AL45AE Type No. w valve ESHTE38AL90AB | |
| G 3/8 m M 16x1.5 m Couplings with 45 Thread connection G 3/8 m M 16x1.5 m Couplings with 90 Thread connection | 56 56 ° male L 55.5 55.5 ° male L 55.5 | 22 22 22 SW 22 22 22 SW 22 | 23.5 D 23.5 23.5 23.5 D | 12.5 ead v L1 12.5 12.5 ead v L1 12.5 | vithou DS 13 13 | t/with valv Passage 9 9 t/with valv Passage | 94 Weight 131 129 The (inner continue) Weight Weight | ESHTE38AL ESHTE1615AL one DIN 3863) Type No. w/o valve ESHTE38AL45 ESHTE1615AL45 one DIN 3863) Type No. w/o valve | ESHTE38ALAB ESHTE1615ALAB Type No. w valve ESHTE38AL45AB ESHTE1615AL45AE Type No. w valve | |
| G 3/8 m M 16x1.5 m Couplings with 45' Thread connection G 3/8 m M 16x1.5 m Couplings with 90' Thread connection G 3/8 m M 16x1.5 m | 56 56 8° male 55.5 55.5 1 Sec. 55.5 | 22 22 22 SW 22 22 22 SW 22 | 23.5 D 23.5 23.5 23.5 D 23.5 | 12.5 ead v L1 12.5 12.5 ead v L1 12.5 | vithou DS 13 13 vithou DS 13 | t/with valv Passage 9 9 t/with valv Passage 9 | 94 Weight 131 129 Te (inner co | ESHTE38AL ESHTE1615AL one DIN 3863) Type No. w/o valve ESHTE38AL45 ESHTE1615AL45 one DIN 3863) Type No. w/o valve ESHTE38AL90 | ESHTE38ALAB ESHTE1615ALAB Type No. w valve ESHTE38AL45AB ESHTE1615AL45AE Type No. w valve ESHTE38AL90AB | |
| G 3/8 m M 16x1.5 m Couplings with 45 Thread connection G 3/8 m M 16x1.5 m Couplings with 90 Thread connection G 3/8 m | 56 56 8 male 55.5 55.5 8 male L 55.5 55.5 | 22 22 22 SW 22 22 22 SW 22 22 | 23.5 D 23.5 23.5 23.5 23.5 | ead v L1 12.5 12.5 ead v L1 12.5 12.5 | vithou DS 13 13 vithou DS 13 13 | t/with valv Passage 9 9 t/with valv Passage 9 9 | 94 Weight 131 129 Te (inner co | ESHTE38AL ESHTE1615AL one DIN 3863) Type No. w/o valve ESHTE38AL45 ESHTE1615AL45 one DIN 3863) Type No. w/o valve ESHTE38AL90 | ESHTE38ALAB ESHTE1615ALAB Type No. w valve ESHTE38AL45AB ESHTE1615AL45AE Type No. w valve ESHTE38AL90AB | |



















Series ESDMT plug size 9.4 mm – High Resistant Special Brass

with Automatic Locking Mechanism









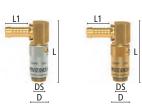




















- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optionally available with straight-through,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

Materials

- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310 Balls: Stainless steel 1.4034
- 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 N | o. 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 | e 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 male thread

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 valv | e 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 sizes on request

^{*}subject to media (oil: 200°C, water: 160°C, air: 200°C)

plug size 13.5 mm – High Resistant Special Brass Series ESDT

with Automatic Locking Mechanism

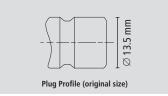
- Forced guidance design with visual colour coding on the locking sleeve
- · Combined pressure-torsion spring and strengthened release sleeve made of high resistant special brass
- For temperature regulation applications with hot or cold water as well as tempered oil
- . Optionally available with straight-through,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

Materials

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

| Max. Working Pressure | Te | mperatı | ıre | DN | Threa | ad | Operation | Type of valve | Media | \$ |
|---|---|---|--|--|--|--|--|---|--|----|
| PN 15 bar | -20° | C – +20 | 0°C* | 9 | ISO 288/ [| DIN 13 | One-hand | single/double/straight-thr. | Tempered media | 5 |
| | | | | | | | | | | |
| Couplings with I | hose | conne | ectio | n | | | | | | |
| | | | | | | | | | | |
| Couplings with s | straig | jht st | anda | rd hos | e stem | without/v | vith valve | | | |
| | | | | | | | | | | |
| Hose connection | | L | D | L1 | DS | Passage | Weight | | Type No. w valve | |
| Hose i.D. 13 | (| 64.5 | 24 | 25 | 13.5 | 9 | 94 | ESDT 13 TL | ESDT 13 TLAB | |
| o 11 141 | | | | | *** | | | | | |
| Couplings with 4 | 45° S1 | tanda | rd ho | se ste | m with | out/with | valve | | | |
| Hose connection | | | ь | 1.4 | DS | Daggaga | Mainht | Time No 11/6 vehic | Time No windhie | |
| Hose i.D. 13 | | L 57 | D 24 | L1 25 | 13.5 | Passage 9 | Weight 147 | ESDT 13 TL45 | Type No. w valve ESDT 13 TL45AB | |
| nose I.D. 13 | | 3/ | 24 | 25 | 15.5 | 9 | 147 | E3U1 13 1L45 | ESDI IS IL45AB | |
| | | | | | | | | | | |
| Couplings with 9 | ono ca | tanda | rd bo | so sto | m with | out/with | valvo | | | |
| coupings with s | JU 51 | anud | i a iit | se ste | III VVICII | out/with | vaive | | | |
| Hose connection | | L | D | L1 | DS | Passage | Weight | Type No. w/o value | Type No. w valve | |
| Hose i.D. 13 | | 57 | 24 | 25 | 13.5 | 9 | 149 | ESDT 13 TL90 | ESDT 13 TL90AB | |
| nose i.D. 13 | | 37 | 24 | 23 | 13.3 | 3 | 143 | E3D1 13 1L30 | E3D1 13 IL30AB | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Counlings with a | male | threa | d | | | | | | | |
| Couplings with r | male | threa | d | | | | | | | |
| | | | | ong thr | ead wi | thout/wit | h valve (inr | ner cone DIN 3863) | | |
| Couplings with r | | | | ong thr | ead wi | thout/wit | h valve (inr | ner cone DIN 3863) | | |
| | straig | | | ong thr | ead wi | thout/wit | | | Type No. w valve | |
| Couplings with s | straig | jht m | ale lo | | | | | | Type No. w valve | |
| Couplings with s Thread connect. G 3/8 m | straig L | ght ma | ale lo | L1 | DS | Passage | e Weight | t Type No. w/o valve | | |
| Couplings with s Thread connect. G 3/8 m | straig L 57.5 | sw 22 | ale lo D 24 | L1 12.5 | DS 13.5 | Passag | e Weight | Type No. w/o valve | ESDT38ALAB | |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m | straig L 57.5 57.5 | sw 22 22 | D 24 24 | L1 12.5 12.5 | DS 13.5 13.5 | Passag 9 9 | e Weight 108 107 | t Type No. w/o valve ESDT38AL ESDT1615AL | ESDT38ALAB | |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m | straig L 57.5 57.5 | sw 22 22 | D 24 24 | L1 12.5 12.5 | DS 13.5 13.5 | Passag 9 9 | e Weight 108 107 | t Type No. w/o valve ESDT38AL ESDT1615AL | ESDT38ALAB | |
| Couplings with s Thread connect. G 3/8 m | straig L 57.5 57.5 | sw 22 22 | D 24 24 | L1 12.5 12.5 | DS 13.5 13.5 | Passag 9 9 | e Weight 108 107 ve (inner co | t Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) | ESDT38ALAB | |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 | L 57.5 57.5 45° m | SW 22 22 22 | D 24 24 24 | L1 12.5 12.5 hread | DS 13.5 13.5 withou | Passag 9 9 t/with val | e Weight 108 107 ve (inner co | t Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) | ESDT38ALAB ESDT1615ALAB | |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 Thread connect. G 3/8 m | traig 57.5 57.5 4 5° m | SW 22 22 22 nale lo | D 24 24 24 Dong t | L1 12.5 12.5 hread | DS 13.5 13.5 withou | Passag 9 9 t/with val | e Weight 108 107 ve (inner co | Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) Type No. w/o valve | ESDT38ALAB ESDT1615ALAB Type No. w valve | |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 Thread connect. G 3/8 m | L 57.5 57.5 45° m L | SW 22 22 22 nale lo SW 22 | D 24 24 24 24 24 24 | L1 12.5 12.5 hread v | DS 13.5 13.5 without DS 13.5 | Passage 9 9 t/with val Passage 9 | e Weight 108 107 ve (inner co | Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) Type No. w/o valve ESDT38AL45 | ESDT38ALAB ESDT1615ALAB Type No. w valve ESDT38AL45AB | |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 Thread connect. G 3/8 m M 16x1.5 m | L 57.5 57.5 45° m L 57 | sw 22 22 nale lo sw 22 22 | D 24 24 Dng to 24 24 24 | L1 12.5 12.5 hread v L1 12.5 12.5 | DS 13.5 13.5 withou DS 13.5 13.5 | Passage 9 9 t/with val Passage 9 9 | e Weight 108 107 ve (inner co | Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) Type No. w/o valve ESDT38AL45 ESDT1615AL45 | ESDT38ALAB ESDT1615ALAB Type No. w valve ESDT38AL45AB | |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 Thread connect. G 3/8 m M 16x1.5 m | L 57.5 57.5 45° m L 57 | sw 22 22 nale lo sw 22 22 | D 24 24 Dng to 24 24 24 | L1 12.5 12.5 hread v L1 12.5 12.5 | DS 13.5 13.5 withou DS 13.5 13.5 | Passage 9 9 t/with val Passage 9 9 | e Weight 108 107 ve (inner co | Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) Type No. w/o valve ESDT38AL45 ESDT1615AL45 | ESDT38ALAB ESDT1615ALAB Type No. w valve ESDT38AL45AB | |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 Thread connect. G 3/8 m M 16x1.5 m Couplings with 9 | L 57.5 57.5 45° m L 57 | sw 22 22 nale lo sw 22 22 | D 24 24 Dng to 24 24 24 | L1 12.5 12.5 hread v L1 12.5 12.5 | DS 13.5 13.5 withou DS 13.5 13.5 | Passage 9 9 t/with val Passage 9 9 | e Weight 108 107 ve (inner co | Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) Type No. w/o valve ESDT38AL45 ESDT1615AL45 one DIN 3863) | ESDT38ALAB ESDT1615ALAB Type No. w valve ESDT38AL45AB | В |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 | L 57.5 57.5 L 57 57 57 | sw 22 22 22 nale lo 22 22 | D 24 24 Dng ti D 24 24 | L1 12.5 12.5 hread v L1 12.5 12.5 | DS 13.5 13.5 withour DS 13.5 13.5 | Passage 9 t/with val Passage 9 1 t/with val | e Weight 108 107 ve (inner co | Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) Type No. w/o valve ESDT38AL45 ESDT1615AL45 one DIN 3863) | ESDT38ALAB ESDT1615ALAB Type No. w valve ESDT38AL45AB ESDT1615AL45AI | В |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 Thread connect. G 3/8 m M 16x1.5 m Couplings with 9 Thread connect. | L 57.5 57.5 45° m L 57 57 57 | SW 22 22 22 SW 22 22 SW SW SW | D 24 24 Dong t | L1 12.5 12.5 hread v L1 12.5 12.5 | DS 13.5 13.5 without DS 13.5 13.5 without DS 13.5 DS | Passage 9 t/with val Passage 9 t/with val | e Weight 108 107 ve (inner co | Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) Type No. w/o valve ESDT38AL45 ESDT1615AL45 one DIN 3863) | ESDT38ALAB ESDT1615ALAB Type No. w valve ESDT38AL45AB ESDT1615AL45AI Type No. w valve | В |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 Thread connect. G 3/8 m M 16x1.5 m Couplings with 9 Thread connect. G 3/8 m | L 57.5 m L 57.5 m L | SW 22 22 SW | D 24 24 24 24 24 24 24 24 24 24 24 24 24 | L1 12.5 12.5 hread v L1 12.5 12.5 hread v | DS 13.5 13.5 without DS 13.5 without DS 13.5 13.5 without DS 13.5 | Passage 9 t/with val Passage 9 t/with val Passage 9 t/with val | e Weight 108 107 ve (inner co | Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) Type No. w/o valve ESDT38AL45 ESDT1615AL45 one DIN 3863) Type No. w/o valve ESDT38AL90 | ESDT38ALAB ESDT1615ALAB Type No. w valve ESDT38AL45AB ESDT1615AL45AI Type No. w valve ESDT38AL90AB | В |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 Thread connect. G 3/8 m M 16x1.5 m Couplings with 9 Thread connect. G 3/8 m M 16x1.5 m | L 577.5 57.5 45° m L 57 57 57 | sw 22 22 22 3w 22 22 22 3w 22 22 22 22 | D 24 24 24 24 24 24 24 24 24 24 24 24 24 | L1 12.5 12.5 hread v L1 12.5 12.5 hread v | DS 13.5 13.5 without DS 13.5 without DS 13.5 13.5 without DS 13.5 | Passage 9 t/with val Passage 9 t/with val Passage 9 t/with val | e Weight 108 107 ve (inner co | Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) Type No. w/o valve ESDT38AL45 ESDT1615AL45 one DIN 3863) Type No. w/o valve ESDT38AL90 | ESDT38ALAB ESDT1615ALAB Type No. w valve ESDT38AL45AB ESDT1615AL45AI Type No. w valve ESDT38AL90AB | В |
| Couplings with s Thread connect. G 3/8 m M 16x1.5 m Couplings with 4 Thread connect. G 3/8 m M 16x1.5 m Couplings with 9 Thread connect. G 3/8 m | L 57.5 57.5 57.5 L 57 57 57 57 57 57 57 57 | sw 22 22 22 sw 22 22 22 22 22 22 22 22 22 22 22 22 22 | D 24 24 24 24 24 24 24 24 | L1 12.5 12.5 hread v L1 12.5 hread v L1 12.5 12.5 | DS 13.5 13.5 withour DS 13.5 withour DS 13.5 | Passage 9 t/with val Passage 9 t/with val Passage 9 9 | e Weight 108 107 ve (inner co | Type No. w/o valve ESDT38AL ESDT1615AL one DIN 3863) Type No. w/o valve ESDT38AL45 ESDT1615AL45 one DIN 3863) Type No. w/o valve ESDT38AL90 | ESDT38ALAB ESDT1615ALAB Type No. w valve ESDT38AL45AB ESDT1615AL45AI Type No. w valve ESDT38AL90AB | В |



































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