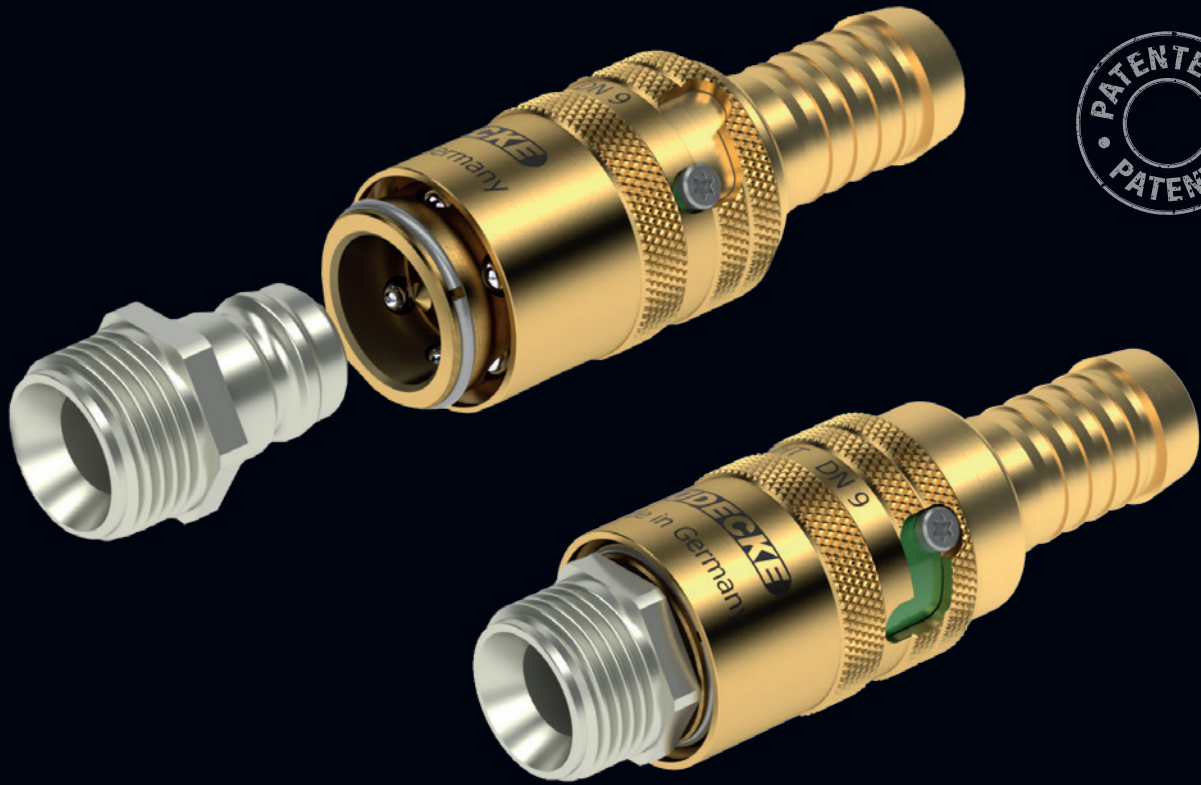


# LÜDECKE

Since 1930. The perfect connection.




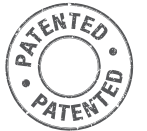
**Temp  
Secure®**  
by **LÜDECKE**

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

**Product Range 2018 / 19**



**LÜDECKE** MADE IN GERMANY 



# LUDECKE TempSecure®

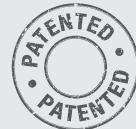
## Safety without Compromise for Temperature Regulation Applications



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.

**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

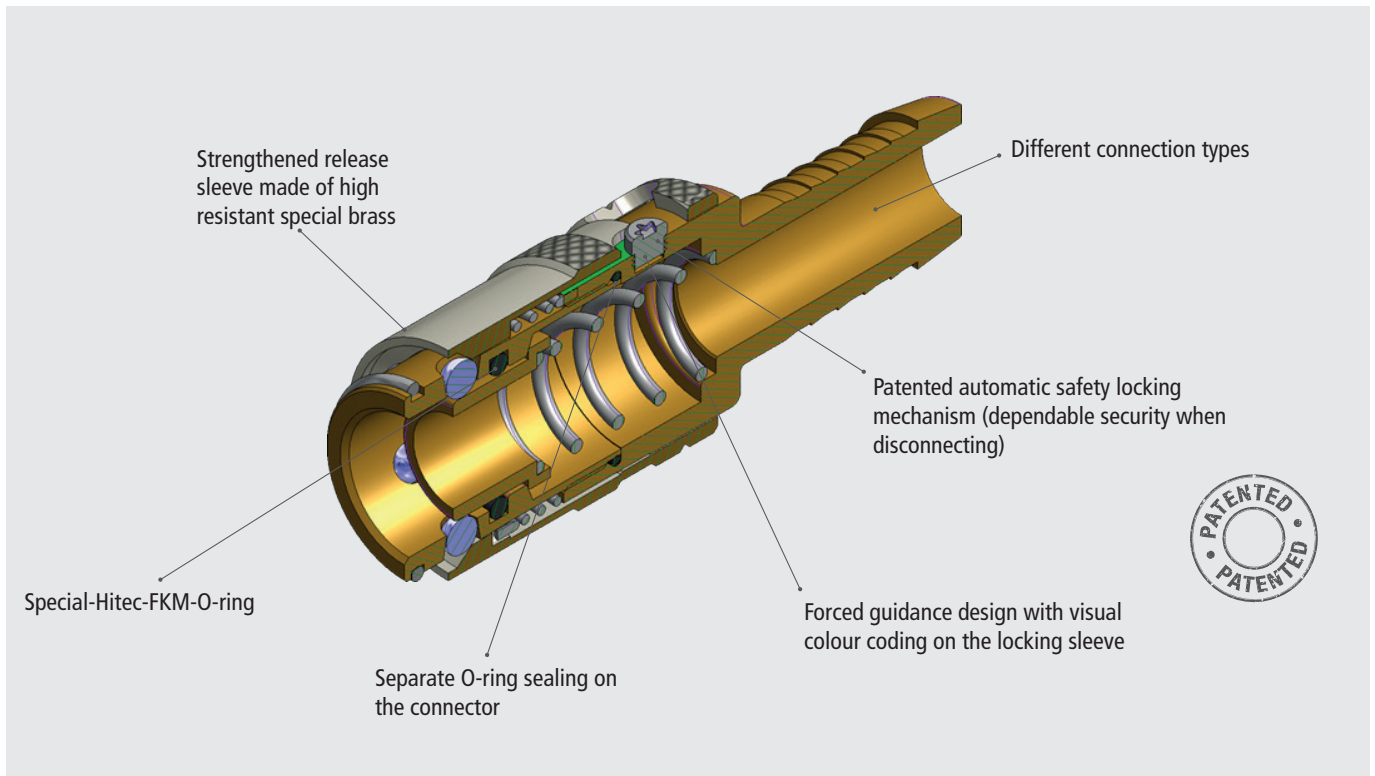
- High temperature seals (Special-Hitec-FKM-O-ring) with resilient characteristics
- Versions with additional O-ring sealing at connection port to prevent leakage in high temperature applications

### 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!**
- **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

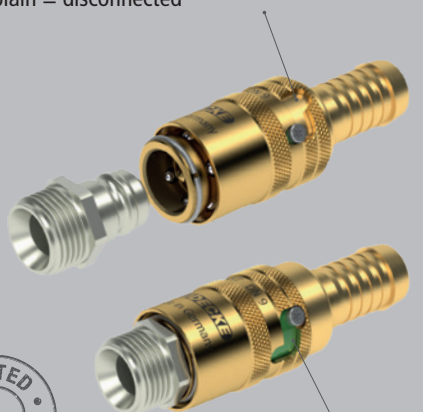
The **LUDECKE** TempSecure® temperature regulation quick connect couplings - highest flexibility due to different sizes and connection types.





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



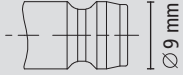
The reliable partner in the field of temperature regulation applications

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

# 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

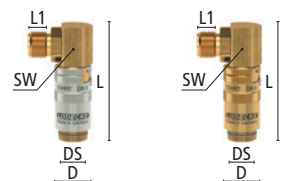
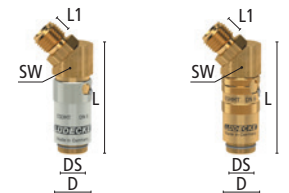
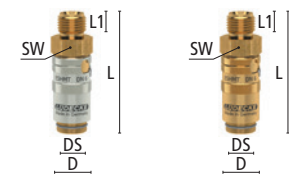
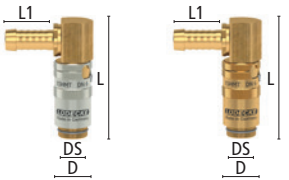
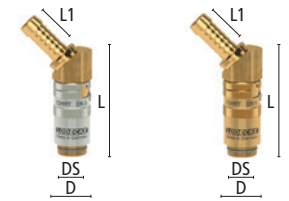
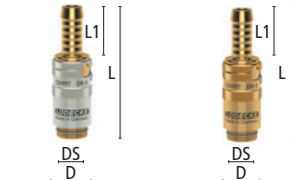
- Body, valve body, valve, plug: Brass MS 58 plain
- Sleeve: High resistant special brass plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- O-rings: Special-Hitec-FKM-O-ring
- Balls: Stainless steel 1.4034

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



European  
Plug Profile

Also in  
Stainless Steel  
Series ESHMTE



Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 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	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)

# Temperature Regulation Quick Connect Couplings

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

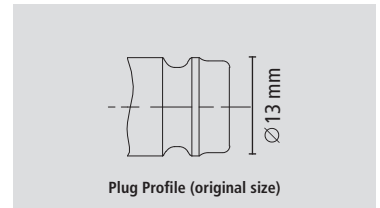
with Automatic Locking Mechanism

**DN9**

- Forced guidance design with visual colour coding on the locking sleeve
- Combined pressure-torsion spring and 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



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



European  
Plug Profile

Also in  
Stainless Steel  
Series ESHTe

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

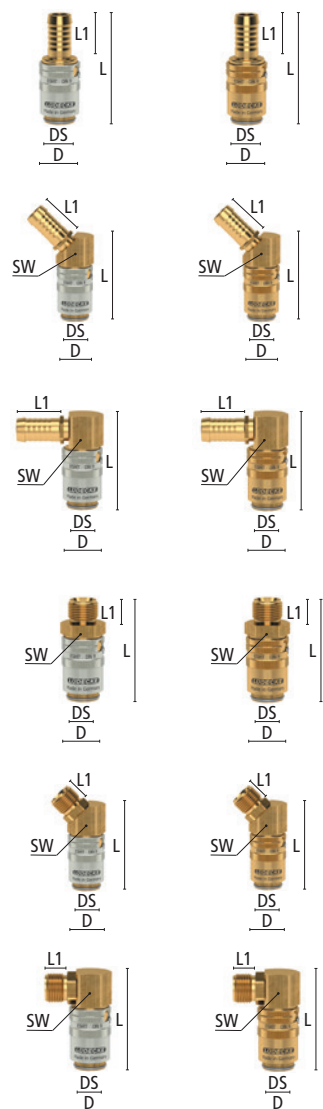
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55	22	23.5	12.5	13	9	134	ESHT38AL45	ESHT38AL45AB
M 16x1.5 m	55	22	23.5	12	13	9	132	ESHT1615AL45	ESHT1615AL45AB

### Couplings with 90° male 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	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!

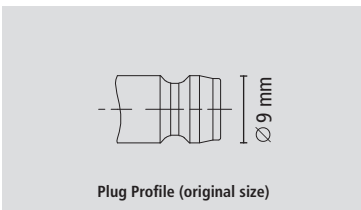
\*subject to media (oil: 200°C, water: 160°C, air: 200°C)



# Temperature Regulation Quick Connect Couplings

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

**DN6**



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



European  
Plug Profile



- 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	ESHMTE1415AL45AB

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

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

other types / sizes on request!

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



# Temperature Regulation Quick Connect Couplings

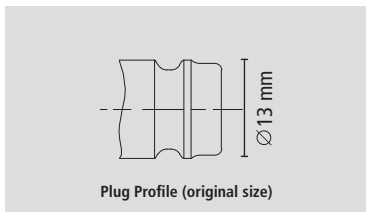
plug size 13 mm – Stainless Steel with Automatic Locking Mechanism **Series ESHTe**

- 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 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

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

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

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

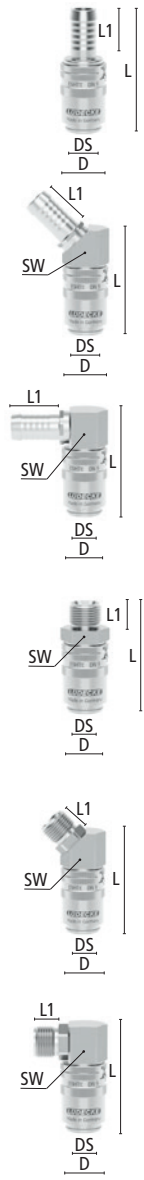
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	55.5	22	23.5	12.5	13	9	131	ESHTe38AL45	ESHTe38AL45AB
M 16x1.5 m	55.5	22	23.5	12.5	13	9	129	ESHTe1615AL45	ESHTe1615AL45AB

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

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

Other sizes on request

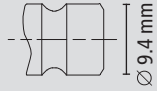
\*subject to media (oil: 200°C, water: 160°C, air: 200°C)



# 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)



International Plug Profile

- 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
- O-rings: Special-Hitec-FKM-O-ring
- Balls: Stainless steel 1.4034

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

**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 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)**

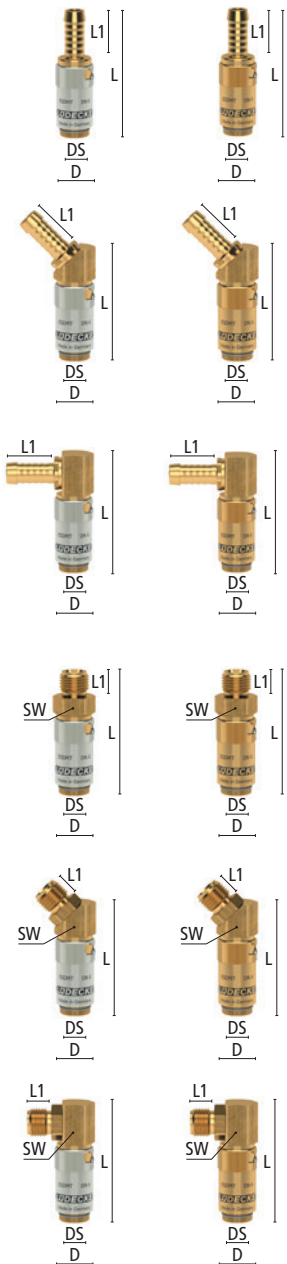
Thread connection	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	51	17	18	11	9.4	6	81	ESDMT14AL45	ESDMT14AL45AB
M 14x1.5 m	51	17	18	11	9.4	6	82	ESDMT1415AL45	ESDMT1415AL45AB

**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 sizes on request

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

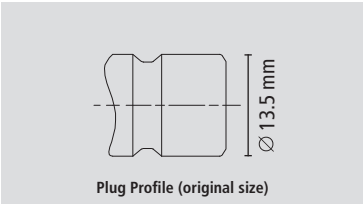


# Temperature Regulation Quick Connect Couplings

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

- Forced guidance design with visual colour coding 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

**DN 9**



**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*	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 thread**

**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: 200°C, water: 160°C, air: 200°C)

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