Temperature Regulation Quick Connect Couplings



The temperature regulation quick connect couplings made of stainless steel are perfectly adapted to temperature regulation applications with cold or hot water and tempered oil in clean room areas as well as for increased hygiene regulations.

In addition to the standard coupling systems, the patented TempSecure by **LUDECKE**® series is also available in stainless steel. It is used for particularly high temperatures and critical applications.

Advantages:

- High-quality materials (Stainless Steel 1.4305)
- Robust, safe, absolutely leakage-proof and durable
- Easy to couple
- For temperature regulation lines and various media (e.g. water, steam, oil)
- Different sizes, connection and valve types
- TempSecure by LUDECKE®: patented temperature regulation quick connect coupling system wih automatic locking mechanism



Connected in Seconds

The **LUDECKE** quick connect couplings are very easy to handle.







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

To disconnect, pull back the sleeve from the coupling (comes with automatic locking meachnism in shut-off couplings).

Flexible Components

The **LUDECKE** temperature regulation product range can be extended with various features and thus be ideally adapted to the respective requirements.



TempSecure by LUDECKE® Safety Quick Connect Coupling

The patented TempSecure by **LUDECKE®** temperature regulation guick 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 hot or cold water and tempered oil between -20°C and +200°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 with forced guidance
- Visual colour coding (DN 6, DN 9)
- Controlled, manual disconnection
- High-temperature seals for high-performance
- Versions with additional O-ring sealing at connection port to prevent leakage in high-temperature applications
- Available in various sizes, connections and valve types





Security Lock

In addition to the TempSecure by **LUDECKE®** series, we offer a simplified security

- Disconnection only possible when safety pin engaged correctly into sleeve notch
- Prevention of fluid or pressure loss in the circulation during operation
- Prevention of human injury and harm to the environment, machine and tool
- Available for the series ESHME and ESHE

Just add "S" on Type No. (e.g. ESHME 9 TLS) Surcharge 2.19 Euro gross/ piece



Colour Coding

A red or blue anodized aluminium ring for the sleeve can be ordered to easily identify and distinguish between flow and return lines of the tempered circuit (for series ESHME

The rings are also sold individually for self-assembly. For installation, simply slide the ring on the coupling sleeve.

For additional information see page 321

O-Rings for Temperature Regulation Couplings

FKM:



LUDECKE offers high-resistant seals made of FKM for temperature regulation appli-

Advantages:

- Heat resistant up to 200°C (oil: 200°C, water: 150°C, air: 200°C)
- Highly resistant against all common tempered media
- Significantly better gliding properties and minimum wear (low adhesive tendency)
- High elasticity (no crack formation) according to DIN 53504
- High abrasion resistance of the O-ring
- Significantly increased life times of couplings

High-Performance FKM

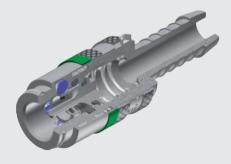
The temperature regulation couplings of the TempSecure by LUDECKE® series contain a high-performance FKM sealing ring which has been developed for the special requirements of high-temperature applications.

- 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 (For easy identification, the coupling sleeve is marked with a green anodized aluminium ring).

Surcharge: 3.75 Euro gross/ piece - When ordering. simply add "HV" to the standard article number (e.g. ESHME 9 TLABHV).





Overview of Temperature Regulation Quick Connect Couplings







Series

ESHME DN 6

ESHMTE DN 6

ESHE DN 9

ESHTE DN 9

NEW! **ESHGTE DN 13**

Plug Profile (original size)































M	ate	eri	a	S

Body:

Sleeve: Valve body: Valve: Springs, Retaining ring: Balls: Seals: Special seals for other media on request: Plug: Max. Working Pressure: Temperature: Thread Types: Flow Rate: Single shut-off: Version: Type of Valve: Operation:

Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4310 Stainless Steel 1.4034 FKM EPDM, FFKM Stainless Steel 1.4305 PN 15 bar

-20°C - + 200°C* ISO 228/ DIN 13 Kv = 0.72straight / 45° / 90° single shut-off/ double shut-off/ straight-through One-Hand 314

Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4310 Stainless Steel 1.4034 High-Performance FKM

EPDM, FFKM Stainless Steel 1.4305 PN 15 bar -20°C - + 220°C** ISO 228/ DIN 13 Kv = 0.72

straight / 45° / 90° single shut-off/ double shut-off/ straight-through One-Hand 316

Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4310 Stainless Steel 1.4034 FKM

Stainless Steel 1.4305 PN 15 bar -20°C - + 200°C* ISO 228/ DIN 13

EPDM, FFKM

Kv = 1.8straight / 45° / 90° single shut-off/ double shut-off/ straight-through One-Hand 317

Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4310 Stainless Steel 1.4034 High-Performance FKM

EPDM, FFKM

Stainless Steel 1.4305 PN 15 bar -20°C - + 220°C** ISO 228/ DIN 13 Kv = 1.8straight / 45° / 90°

single shut-off/ double shut-off/ straight-through One-Hand 319

Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4305 Stainless Steel 1.4310 Stainless Steel 1.4034 High-Performance FKM

EPDM, FFKM Stainless Steel 1.4305 PN 15 bar -20°C - + 220°C** ISO 228/ DIN 13

Kv = 1.8straight single shut-off/ double shut-off/ straight-through One-Hand 320

bject to media (oil: 200°C, water: 150°C, air: 200°C) ubject to media (oil: 220°C, water: 180°C, air: 220°C)

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