

LÜDECKE

Since 1930. The perfect connection.



VKD-T

Quick Connect Couplings for Temperature Regulation Applications

USA (DME) Compatible




**Temp[®]
Secure**
by LÜDECKE

**Temp[®]
Tec**
by LÜDECKE



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LÜDECKE MADE IN GERMANY 

Safety without Compromise for Temperature Regulation Applications



Plastic processing companies rely on particularly robust and sturdy couplings and fittings. The reason: They are used to cool and heat moulding units during injection moulding or pressure casting and have to withstand extreme temperatures.

The sophisticated TempTec by **LUDECKE**® quick connect couplings guarantee first-class quality, full reliability and are easy and fast to operate.

In particular, we would like to point out our TempSecure by **LUDECKE**® series which offers simple and effective protection against unintentional disconnection under pressure.

Advantages:

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

**Temp
Tec**®
by **LUDECKE**

Broad Range

The **LUDECKE** product range contains a large selection of European and International plug profiles. They cover the world's most common plug profiles and ensure high compatibility.

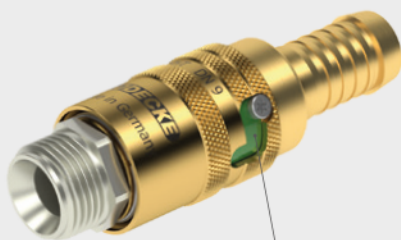
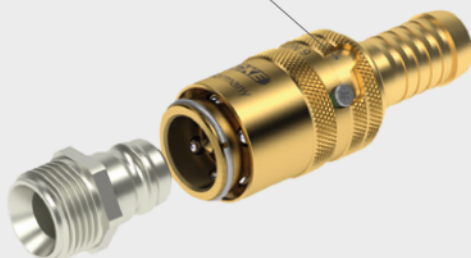


Flexible Components

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

TempSecure by **LUDECKE**[®] Safety Quick Connect Couplings

Visual colour coding on the locking sleeve
brass plain = disconnected



green = connected

The patented TempSecure by **LUDECKE**[®] 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 hot or cold 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 with forced guidance
- Visual colour coding (DN 6, DN 9)
- Controlled, manual disconnection
- High-temperature seals for best 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

TempSecure[®]
by **LUDECKE**



360° Rotatable Connector

The hose barb and male thread couplings available with a rotatable connector, consisting of a high-quality ball-and-socket joint with double O-ring sealing*.

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

Valve Designs

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

Straight-Through



Female part (coupling)

Male part (plug)

- No valve - neither within the coupling nor within the plug
- Maximum flow rate
- During disconnection: media will leak from the coupling and plug line

Single Shut-off



Female part (coupling)

Male part (plug)

- Straight-through plug
- Coupling with valve
- During disconnection: media might leak from the plug line

Double Shut-off



Female part (coupling)

Male part (plug)

- Valves on both sides (male/female)
- During disconnection: media will stay in the hose of both connection lines, constant pressure is maintained

Connecting within Seconds

The **LUDECKE** temperature regulation quick connect couplings are extremely 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 mechanism in shut-off couplings).



Materials

LUDECKE only works with premium materials which are customised to the application.

Brass (plain/ nickel-plated)

Most of the **LUDECKE** quick connect couplings consist of brass MS 58 (machining brass). It is a very sturdy material which guarantees high durability and is perfectly suited for galvanization (nickel, chrome).

Stainless Steel

For clean-room applications or when aggressive media are used to cool down or heat up moulding units, we recommend quick connect couplings made of stainless steel (1.4305).
For further information, please refer to our program for the processing industry.

High Resistant Special Brass

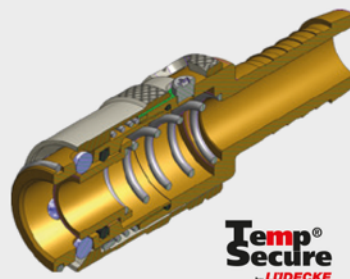
This innovative material combines the processing features of brass and the solidity of stainless steel. High resistant special brass contains no toxic additives nor lead and maintains its natural shine. This material is mainly used in the TempSecure by **LUDECKE**® Series.

Seals 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).



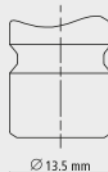
International Plug Profiles



Series **VKD/ESDMT**
DN 6

VKD/ESDT
DN 9

Plug Profile
(original size)



Materials

Body:	MS 58 plain
Sleeve:	Special Brass (plain/ nickel-plated)
Valve Body:	MS 58 plain
Valve:	MS 58 plain
Springs, Retaining Ring:	Stainless Steel 1.4310
Balls:	Stainless Steel 1.4034
Seals:	High-Performance FKM
Plug:	MS 58 (plain/ nickel-plated)
Max. Working Pressure:	PN 15 bar
Temperature:	-20°C— +220°C
Thread Types:	ISO 228, DIN 13
Connection:	straight/ 45°/ 90°
Type of Valve:	single/ double/ straight-through
Operation:	One-Hand

Couplings with shut-off valve:
brass plain, couplings with
straight-through valve: brass
nickel-plated

Special Brass: high resistant special
brass

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