

TD Dry Disconnect Couplings

Product Range



TD series

The special solution for steam applications

Functional principle

TD dry disconnect couplings consist of two coupling halves (tanks and hose unit), each fitted with a cut-off valve.

Coupling is preformed via a rotary movement that pulls the male coupling into the female coupling by means of the helical grooves. After 10°, the hose unit and the tank unit are connected. At up to 120°, the valve position shifts relative to the valve seat – the full, unobstructed flow of the medium is guaranteed.

When the coupling is opened (unscrewing the cam disc mechanism), the shut-off valves in the coupling halves close before the halves themselves are separated, which prevents the uncontrolled escape of hot steam.



The special characteristics

- › Insulated plastic handle sleeve on the hose unit
- › Improved coupling ergonomics
- › Enhanced end position locking during coupling

- › Undesired decoupling due to hose movement (swivel joint actuation) no longer possible
- › Faster and safe decoupling due to improved coupling kinematics

Variant 1 (PN16)

- › Approved for use up to PN16 and 180°C
- › EPDM seal

› Variant 2 (PN25)

- Incompatibility with variant 1 prevents connection mix-ups
- › Approved for use up to PN25 and 225°C
- › FFKM seal

Technical data

Nominal widths

1" DN 25

Materials

Metal components: Stainless steel 1.4571

Connections

BSP female thread 1"

Seals

O-ring: EPDM for steam application
Thread seal: Novapress® Multi
FFKM

Operating pressure

- › PN 16 for applications up to 180 °C
- › PN 25 for applications up to 225 °C

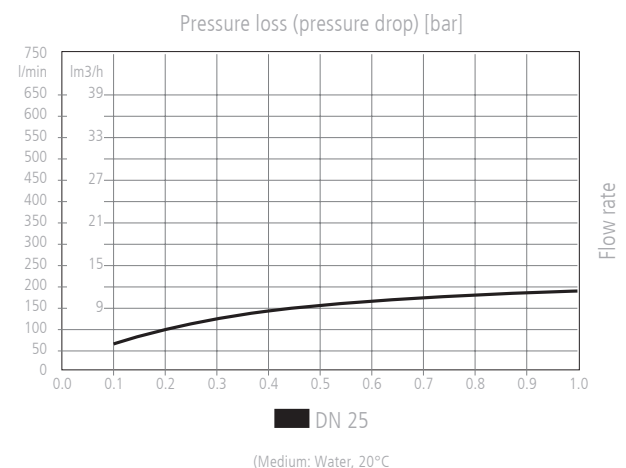
Accessories

- › Dust caps made of PP
- › Dust plugs made of PP



Dust cap and dust plugs

Flow rates



Application example

for steam applications of up to 225°C

In use as a flexible steam connection for heating a double hose line in a chemical plant for manufacturing special silicones.

