



CE 0036



ChemValve-Schmid
Armaturentechnik



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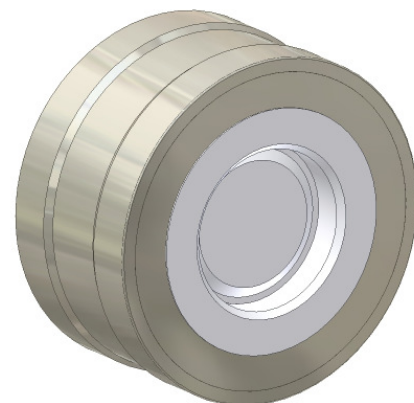
::Data Sheet:: | ::Chapter 4::

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::Non Return Valve Type D-TEF :: | :: DN 15 - 150 :: | :: PN 10::

Non Return Valve Type D-TEF DN 15 - 150

| Designation | Material |
|-----------------|------------------|
| Supporting ring | St. steel 1.4301 |
| Body | see table |
| Valve plate | see table |
| Spring cap | see page 4.30 |
| Spring | PFA coated |



Technical specifications

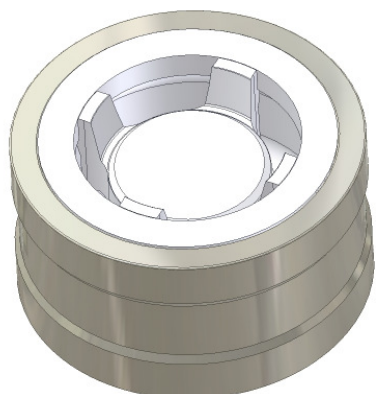
Placement between flange according to DIN EN 1092-1, PN 10

Overall lengths according to DIN EN 558-2, Gr. 52

Tightness according to DIN 3230/3, BN 2 and BO 3

Operational limits according to DIN EN 1092-1

Identification according to DIN EN 19



Utilisation

For aggressive liquids, gases and steams in all process technology.

Constructional features

Parts which are in contact with the medium are made of PTFE or other high-quality synthetics.

The supporting ring chambers the body and protects from lateral flange pressure.

Guiding of valve plate by the ribs of the spring cap.

The Haselloy-spring is coated with a PTFE-tube and welded on the ends.

Special types

On request

Designation: D-TEF- 7 5 7 5 - T - 1 0 0
D-TEF- □□ - □□ - □ - □□□ → DN 15 - 150

| Body | | Valve plate | | Soft sealing | | |
|-----------------|------|-----------------|------|-----------------|----------------|------|
| Material | Code | Material | Code | Material | Temperatur | Code |
| PVC | 73 | PVC | 73 | Without sealing | | M |
| PP | 74 | PP | 74 | PTFE | -200 bis 200°C | T |
| PTFE+25% glass | 75 | PTFE+25% glass | 75 | VITON | -20 bis 200°C | V |
| PTFE conductive | 75 | PTFE conductive | 75 | EPDM | -50 bis 130°C | E |
| | | | | NBR | -30 bis 120°C | P |

Subject to change without notice



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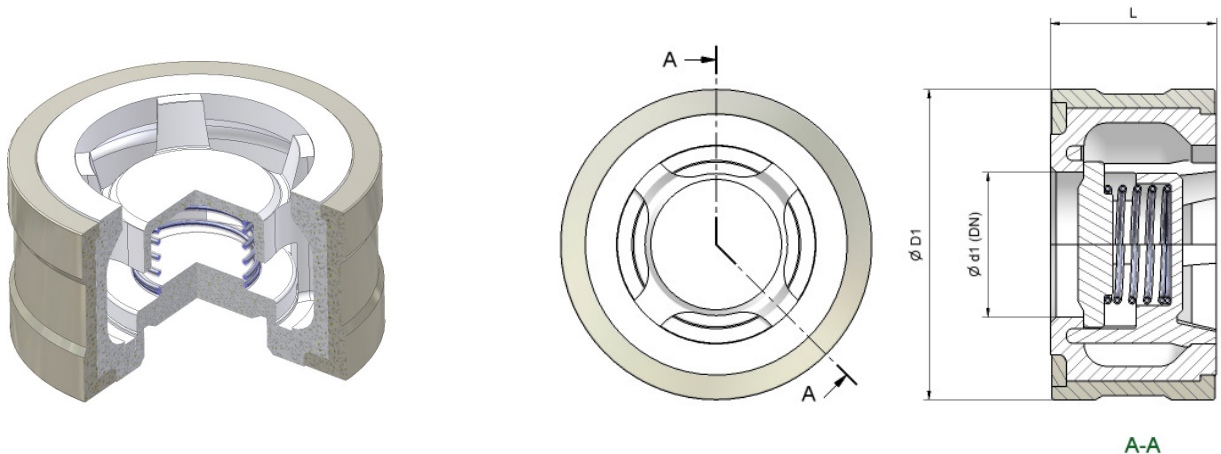


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::Non Return Valve Type D-TEF :: | :: DN 15 - 150 :: | :: PN 10::



| DN (mm) | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 |
|-----------|------|------|------|--------|--------|-----|--------|-----|-----|-----|-----|
| DN (zoll) | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" | 5" | 6" |
| L | 25 | 31.5 | 35.5 | 40 | 45 | 56 | 63 | 71 | 80 | 90 | 106 |
| Ø D, PN10 | 51 | 61 | 71 | 82 | 92 | 107 | 127 | 142 | 162 | 192 | 218 |
| Weight | 0.1 | 0.3 | 0.4 | 0.55 | 0.8 | 1.3 | 2 | 2.5 | 3.6 | 5 | 7 |

Opening pressures (mbar)

| DN (mm) | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 |
|-----------|------|------|----|--------|--------|----|--------|----|-----|-----|-----|
| DN (zoll) | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" | 5" | 6" |
| ΔP ↑ | 25 | 25 | 25 | 27 | 28 | 29 | 30 | 31 | 33 | 33 | 35 |
| ΔP → | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| ΔP ↓ | 15 | 15 | 15 | 13 | 12 | 11 | 10 | 9 | 7 | 7 | 5 |

Pressure drop diagramm

Pressure drop diagram for water at 20°C with opened valve and horizontal flow.
For calculating the pressure drop of the medium the equivalent water flow volume has to be calculated..

$$\dot{V}_w = \dot{v} \sqrt{\frac{\rho}{1000}}$$

- \dot{V}_w = Equivalent water flow volume in m3/h
- ρ = Density of the medium (in use) kg/m3
- \dot{v} = Flow volume of the medium (in use) in m3/h

