



DURCHGANGSKUGELHÄHNE MIT FLANSCHANSCHLUSS  
2-WAY BALL VALVES WITH FLANGE CONNECTIONS

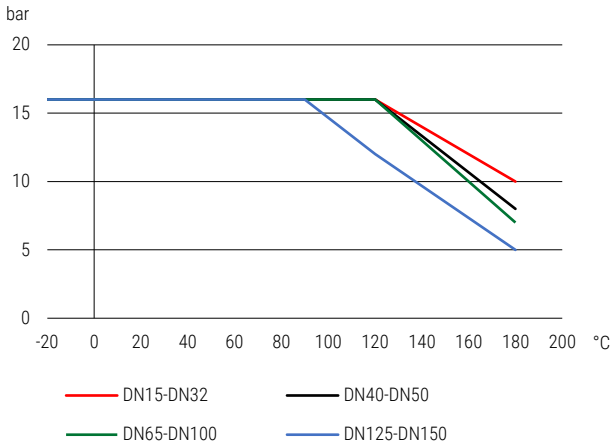
79



79E-PN16 | Edelstahl | Hebelgriff | FI/FI | Kompaktkugelhahn  
79E-PN16 | Stainless steel | Lever handle | FI/FI | Ball valve wafer design



Druck-Temperatur-Diagramm pressure-temperature-diagram



Konstruktionsmerkmale Kugelhahn

- Abschließbar in allen Stellungen
- Direktaufbau von Schwenktrieben möglich
- Ausblässichere Schaltwelle
- Druckausgleichsbohrung in Offenstellung
- Voller Durchgang nach DIN EN 1983
- Schwimmende Kugel
- Kompakte Bauform
- Einteiliges Gehäuse
- Silikonfrei

Standardtemperaturbereich

- 20°C bis + 180°C (abhängig vom Betriebsdruck)  
Siehe Druck-Temperaturdiagramm

Zulassungstext

Einstufung nach PED Kategorie 3 PED 2014-68-EU, Korrosionsbeständiger Stahlguss nach DIN EN 10283, TA-Luft Zulassung nach VDI 2440

Verwendung

Druckluft, Wasser allgemein, Kraftstoffe, Heizöl, Heizungskreisläufe, Polyol, Isocyanat, Wasser-Glykol-Mischungen, Schwache Säuren, Schwache Laugen, Öl, Thermoöl, Tyfocor, Dampf, Wasserdampf

Design features ball valve

- Lockable in all positions
- Direct mounting of actuators possible
- Blow out proved stem design
- Pressure compensation hole in open position
- Full port acc. to DIN EN 1983
- Floating ball
- Compact design
- 1 piece body
- Free of silicon

Standard temperature range

- 20°C to + 180°C (depending on working pressure)  
Take a look at the pressure-temperature-diagram

Approval text

Classification acc. to PED category 3 PED 2014-68-EU, Non-corrosive cast steel acc. to DIN EN 10283, TA-Air approval acc. to VDI 2440

Suitable for

Compressed air, general water, Fuels, Heating oil, Heating circuits, Polyol, Isocyanate, Water-glycol mixture, Weak acids, Weak base, Oils, Thermo-oil, Tyfocor, Steam, water vapour



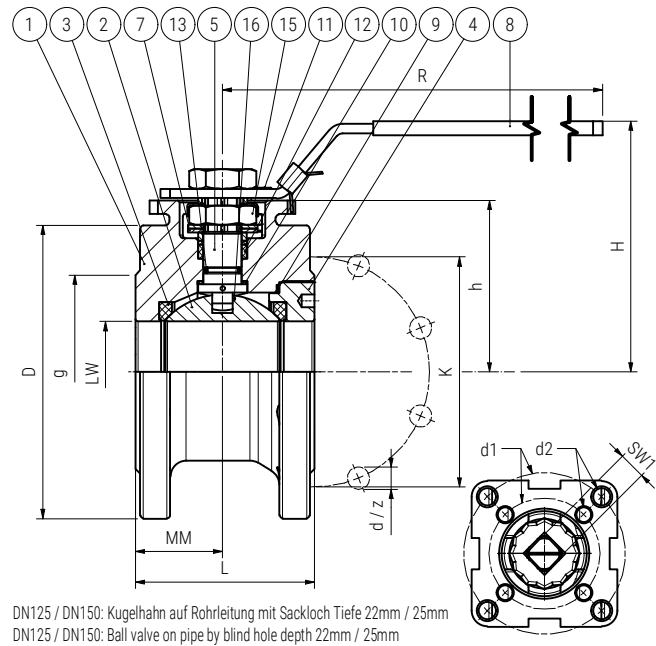
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2-WAY BALL VALVES WITH FLANGE CONNECTIONS

BESTELLBEISPIEL: Flansch-Kugelhahn Edelstahl Kompaktausf. mit Edelstahlkugel DN15 = 79E-PN16-DN15 Artikel-Nr. 00V0079015  
ORDERING EXAMPLE: Flange ball valve of stainless steel compact with stainless steel ball DN15 =79E-PN16-DN15 item number 00V0079015

Datentabelle data table

| DN   | LW   | PN    | L    | MM    | R    | H    | h    | D    | K    | g    | z | d    | SW1  | M         | d1       | d2     | Gewicht<br>Weight<br>(kg) | Artikel-Nr.<br>Item number |
|------|------|-------|------|-------|------|------|------|------|------|------|---|------|------|-----------|----------|--------|---------------------------|----------------------------|
| (mm) | (mm) | (bar) | (mm) | (mm)  | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |   | (mm) | (mm) |           | (mm)     | (mm)   |                           |                            |
| 15   | 15   | 16    | 42   | 21    | 145  | 77   | 49   | 95   | 65   | 45   | 4 | M12  | 9    | F03 / F04 | 36 / 42  | 6 / 6  | 1,322                     | 00V0079015                 |
| 20   | 20   | 16    | 44   | 22    | 145  | 82   | 53,5 | 105  | 75   | 58   | 4 | M12  | 9    | F03 / F04 | 36 / 42  | 6 / 6  | 1,722                     | 00V0079020                 |
| 25   | 25   | 16    | 50   | 25    | 175  | 94   | 62   | 115  | 85   | 68   | 4 | M12  | 11   | F04 / F05 | 42 / 50  | 6 / 6  | 2,326                     | 00V0079025                 |
| 32   | 32   | 16    | 60   | 30    | 175  | 104  | 72   | 140  | 100  | 78   | 4 | M16  | 11   | F04 / F05 | 42 / 50  | 6 / 6  | 3,800                     | 00V0079032                 |
| 40   | 38   | 16    | 65   | 32,5  | 196  | 114  | 78   | 150  | 110  | 88   | 4 | M16  | 14   | F05 / F07 | 50 / 70  | 7 / 9  | 4,800                     | 00V0079040                 |
| 50   | 50   | 16    | 80   | 40    | 196  | 120  | 86   | 165  | 125  | 102  | 4 | M16  | 14   | F05 / F07 | 50 / 70  | 7 / 9  | 6,617                     | 00V0079050                 |
| 65   | 63,5 | 16    | 110  | 56,5  | 265  | 158  | 108  | 185  | 145  | 122  | 4 | M16  | 17   | F07 / F10 | 70 / 102 | 9 / 11 | 9,910                     | 00V0079065                 |
| 80   | 76   | 16    | 120  | 60    | 265  | 165  | 116  | 200  | 160  | 138  | 8 | M16  | 17   | F07 / F10 | 70 / 102 | 9 / 11 | 14,240                    | 00V0079080                 |
| 100  | 95   | 16    | 150  | 77    | 400  | 182  | 139  | 220  | 180  | 162  | 8 | M16  | 22   | F10       | 102      | 11     | 22,210                    | 00V0079100                 |
| 125  | 118  | 16    | 180  | 90    | 800  | 224  | 176  | 250  | 210  | 188  | 8 | M16  | 27   | F12       | 125      | 14     | 34,000                    | 00V0079125                 |
| 150  | 142  | 16    | 225  | 112,5 | 800  | 268  | 192  | 285  | 240  | 212  | 8 | M20  | 27   | F12       | 125      | 14     | 50,000                    | 00V0079150                 |

Maßskizze measured sketch



DN125 / DN150: Kugelhahn auf Rohrleitung mit Sackloch Tiefe 22mm / 25mm  
DN125 / DN150: Ball valve on pipe by blind hole depth 22mm / 25mm

Materialtabelle materials grid

| Nr.<br>No. | Bezeichnung<br>Description                    | Werkstoff<br>Material                 | Materialbezeichnung<br>Material description |
|------------|-----------------------------------------------|---------------------------------------|---------------------------------------------|
| 1          | Gehäuse<br>Body                               | Edelstahl<br>Stainless steel          | 1.4408                                      |
| 2          | Kugel<br>Ball                                 | Edelstahl<br>Stainless steel          | 1.4408                                      |
| 3          | Kugeldichtung<br>Ball seal                    | PTFE TFM<br>PTFE TFM                  | -                                           |
| 4          | Flansch / Nippel<br>Flange / nipple           | Edelstahl<br>Stainless steel          | 1.4408                                      |
| 5          | Schaltwelle<br>Stem                           | Edelstahl<br>Stainless steel          | 1.4401                                      |
| 7          | Spindeldichtung<br>Spindle seal               | FKM<br>FKM                            | -                                           |
| 8          | Griff<br>Handle                               | Stahl verzinkt<br>Steel (zinc-plated) | -                                           |
| 9          | Gehäusedichtung<br>Body seal                  | PTFE<br>PTFE                          | -                                           |
| 10         | Anlaufring<br>Thrust washer                   | PTFE TFM<br>PTFE TFM                  | -                                           |
| 11         | Anschlagstift<br>Stop pin                     | Edelstahl<br>Stainless steel          | A2-70                                       |
| 12         | Packung<br>Packing                            | PTFE<br>PTFE                          | -                                           |
| 13         | Tellerfeder<br>Spring plate                   | Federstahl<br>Spring steel            | 1.4310                                      |
| 15         | Packungsmutter<br>Packing nut                 | Edelstahl<br>Stainless steel          | A2-70                                       |
| 16         | Federndes Druckstück<br>Spring pressure piece | Edelstahl<br>Stainless steel          | A2                                          |

| Verpackungseinheiten Packing units |   |   | Losbrechmomente breakaway torque |             |              |
|------------------------------------|---|---|----------------------------------|-------------|--------------|
| DN<br>(mm)                         |   |   | PN0<br>(Nm)                      | PN7<br>(Nm) | PN16<br>(Nm) |
| 15                                 | 1 | 1 | 5                                | 5           | 5            |
| 20                                 | 1 | 1 | 6                                | 6           | 6            |
| 25                                 | 1 | 1 | 9                                | 9           | 9            |
| 32                                 | 1 | 1 | 13                               | 13          | 13           |
| 40                                 | 1 | 1 | 19                               | 19          | 19           |
| 50                                 | 1 | 1 | 26                               | 26          | 26           |
| 65                                 | 1 | 1 | 45                               | 45          | 45           |
| 80                                 | 1 | 1 | 70                               | 70          | 70           |
| 100                                | 1 | 1 | 110                              | 110         | 110          |
| 125                                | 1 | 1 | 300                              | 300         | 350          |
| 150                                | 1 | 1 | 350                              | 350         | 400          |