



DURCHGANGSKUGELHÄHNE MIT GEWINDEANSCHLUSS  
2-WAY BALL VALVES WITH THREAD CONNECTIONS

851E

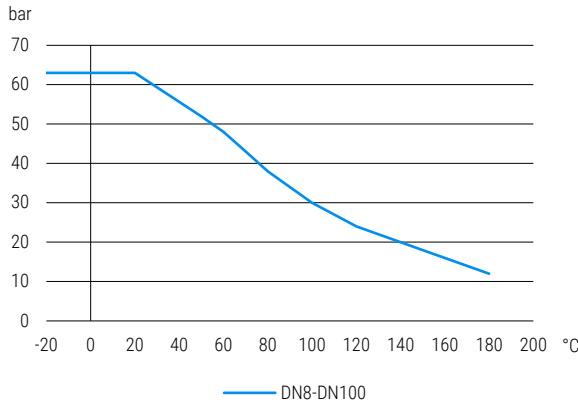


851E.0

851E.0 | Edelstahl | Hebelgriff | IG/IG | Dreiteilig  
851E.0 | Stainless steel | Lever handle | F/F | 3-piece design



Druck-Temperatur-Diagramm pressure-temperature-diagram



Konstruktionsmerkmale Kugelhahn

- Dreiteiliges Gehäuse
- Antistatikausführung
- Voller Durchgang nach DIN EN 1983
- Stopfbuchsenmutter muss in zeitlichen Abständen nachgezogen werden
- Einstellbare Stopfbuchse
- Antriebsmontage direkt möglich
- Montageflansch nach DIN ISO 5211
- Abschließbar in allen Stellungen
- 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

Verwendung

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

Design features ball valve

- 3 piece body
- Antistatic device
- Full port acc. to DIN EN 1983
- Gland nut has to be retightened within certain periods
- Adjustable stem packing
- Direct mounting of actuators possible
- Mounting pad acc. to DIN ISO 5211
- Lockable in all positions
- 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

Suitable for

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



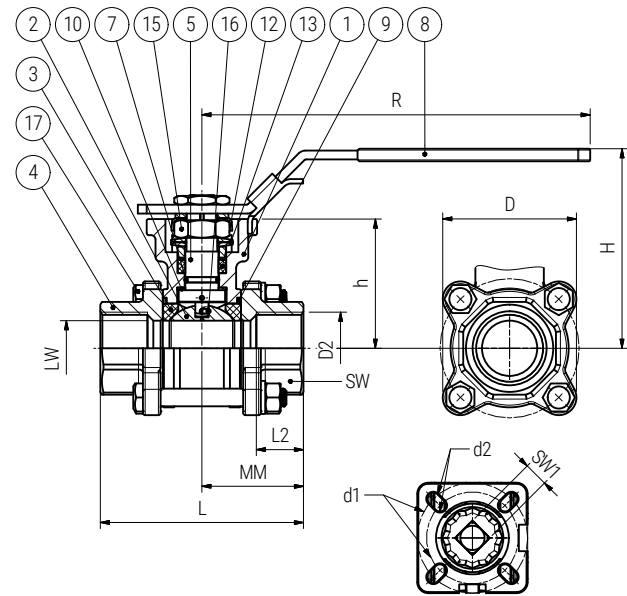
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BESTELLBEISPIEL: Kugelhahn Edelstahl beiderseits Innengewinde mit Hebelgriff Größe 1/2" = 851E.0-1/2" Artikel-Nr. 0020007001015  
ORDERING EXAMPLE: Ball valve of stainless steel female/female thread with lever handle size 1/2" = 851E.0-1/2" item number 0020007001015

Datentabelle data table

| D2        | DN   | LW   | PN    | L    | L2   | MM    | R    | H    | h     | D     | SW   | SW1  | M         | d1       | d2     | Gewicht<br>Weight<br>(kg) |
|-----------|------|------|-------|------|------|-------|------|------|-------|-------|------|------|-----------|----------|--------|---------------------------|
|           | (mm) | (mm) | (bar) | (mm) | (mm) | (mm)  | (mm) | (mm) | (mm)  | (mm)  | (mm) | (mm) |           | (mm)     | (mm)   |                           |
| Rp 1/4"   | 8    | 10,6 | 63    | 75   | 14,5 | 37,5  | 145  | 69   | 42    | 46,4  | 28   | 9    | F03 / F04 | 36 / 42  | 6 / 6  | 0,640                     |
| Rp 3/8"   | 10   | 12,7 | 63    | 75   | 14,5 | 37,5  | 145  | 69   | 42    | 46,4  | 28   | 9    | F03 / F04 | 36 / 42  | 6 / 6  | 0,650                     |
| Rp 1/2"   | 15   | 15   | 63    | 75   | 14,5 | 37,5  | 145  | 69   | 42    | 46,4  | 28   | 9    | F03 / F04 | 36 / 42  | 6 / 6  | 0,668                     |
| Rp 3/4"   | 20   | 20   | 63    | 80   | 15,5 | 40    | 145  | 76   | 48,5  | 54,9  | 34   | 9    | F03 / F05 | 36 / 50  | 6 / 7  | 0,940                     |
| Rp 1"     | 25   | 25   | 63    | 90   | 16,5 | 45    | 175  | 89   | 58,5  | 59,8  | 42   | 11   | F04 / F05 | 42 / 50  | 6 / 7  | 1,320                     |
| Rp 1 1/4" | 32   | 32   | 63    | 110  | 23   | 55    | 175  | 93,5 | 63    | 71,7  | 50   | 11   | F04 / F07 | 42 / 70  | 6 / 9  | 2,240                     |
| Rp 1 1/2" | 40   | 38   | 63    | 120  | 22,5 | 60    | 190  | 103  | 71,3  | 78,1  | 58   | 14   | F05 / F07 | 50 / 70  | 7 / 9  | 2,970                     |
| Rp 2"     | 50   | 50   | 63    | 140  | 27,5 | 70    | 190  | 109  | 78,2  | 92,3  | 72   | 14   | F05 / F07 | 50 / 70  | 7 / 9  | 4,500                     |
| Rp 2 1/2" | 65   | 63,5 | 63    | 185  | 40   | 92,5  | 265  | 147  | 100   | 115,9 | 85   | 17   | F07 / F10 | 70 / 102 | 9 / 11 | 8,400                     |
| Rp 3"     | 80   | 76   | 63    | 205  | 41,5 | 102,5 | 300  | 154  | 108,5 | 174   | 103  | 17   | F07 / F10 | 70 / 102 | 9 / 11 | 11,850                    |
| Rp 4"     | 100  | 100  | 63    | 240  | 44   | 120   | 400  | 205  | 140   | 221   | 132  | 22   | F10       | 102      | 11     | 24,060                    |

Maßskizze measured sketch



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 mod.<br>PTFE mod.       | -                                           |
| 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                               | Edelstahl<br>Stainless steel | 1.4301                                      |
| 9          | Gehäusedichtung<br>Body seal                  | PTFE<br>PTFE                 | -                                           |
| 10         | Anlaufring<br>Thrust washer                   | PTFE<br>PTFE                 | -                                           |
| 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 | 1.4301                                      |
| 16         | Federndes Druckstück<br>Spring pressure piece | Edelstahl<br>Stainless steel | 1.4401                                      |
| 17         | Sechskantschraube<br>Bolt                     | Edelstahl<br>Stainless steel | 1.4301                                      |

| Verpackungseinheiten Packing units |   |   | Losbrechmomente breakaway torque |             |              |              |
|------------------------------------|---|---|----------------------------------|-------------|--------------|--------------|
| DN<br>(mm)                         |   |   | PN0<br>(Nm)                      | PN7<br>(Nm) | PN16<br>(Nm) | PN40<br>(Nm) |
| 8                                  | 1 | 1 | 5                                | 5           | 5            | 5            |
| 10                                 | 1 | 1 | 5                                | 5           | 5            | 5            |
| 15                                 | 1 | 1 | 5                                | 5           | 5            | 5            |
| 20                                 | 1 | 1 | 7                                | 7           | 7            | 9            |
| 25                                 | 1 | 1 | 9                                | 9           | 9            | 11           |
| 32                                 | 1 | 1 | 13                               | 13          | 13           | 16           |
| 40                                 | 1 | 1 | 19                               | 19          | 19           | 23           |
| 50                                 | 1 | 1 | 26                               | 26          | 26           | 34           |
| 65                                 | 1 | 1 | 45                               | 45          | 45           | 52           |
| 80                                 | 1 | 1 | 70                               | 70          | 70           | 86           |
| 100                                | 1 | 1 | 110                              | 110         | 110          | 130          |