



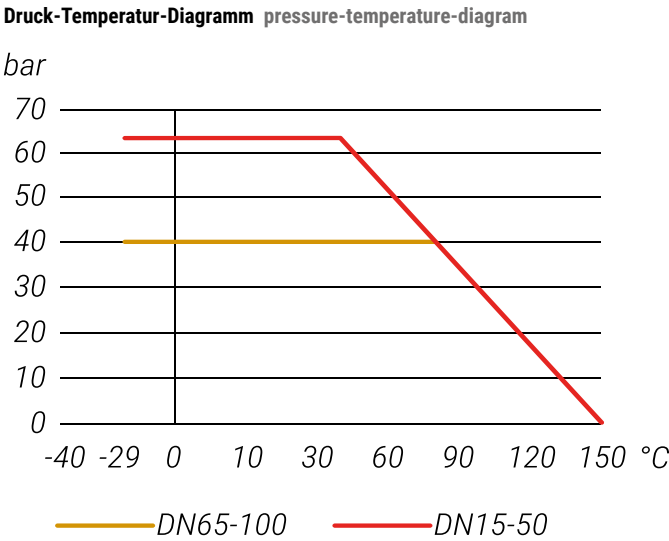
DURCHGANGSKUGELHÄHNE IN SONDERAUSFÜHRUNG  
2-WAY BALL VALVES IN SPECIAL VERSIONS

870



870.0

870.0 | Edelstahl | Hebelgriff | ASME AE/AE Orbital | Dreiteilig  
870.0 | Stainless steel | Lever handle | ASME W/W orbital | 3-piece design



- Konstruktionsmerkmale Kugelhahn**
- Dreiteiliges Gehäuse
  - Anschlussnorm nach DIN 11866-C ASME BPE
  - Voller Durchgang
  - Öl- und Fettfrei
  - Einzeln verpackt
  - Einstellbare Stopfbuchse
  - Antriebsmontage direkt möglich
  - Montageflansch nach DIN ISO 5211
  - Abschließbar in allen Stellungen

**Standardtemperaturbereich**

- 29°C bis + 150°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, Isocyanat, Druckluft, Wasser-Glykol-Mischungen, Öl, Thermoöl, Polyol, Tyfocor, Dampf

- Design features ball valve**
- 3 piece body
  - Connections according to DIN 11866-C ASME BPE
  - Full port
  - Free of oil and grease
  - Packed in single boxes
  - Adjustable stem packing
  - Direct mounting of actuators possible
  - Mounting pad acc. to DIN ISO 5211
  - Lockable in all positions

**Standard temperature range**

- 29°C to + 150°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, Isocyanate, Compressed air, Water-glycol mixture, Oils, Thermo-oil, Polyol, Tyfocor, Steam



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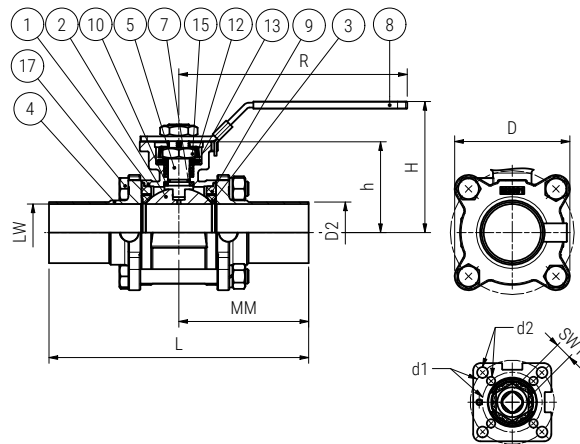
870

**BESTELLBEISPIEL:** Kugelhahn Edelstahl mit Orbitalschweißenden mit Hebelgriff DN15 = 870.0-DN15 Artikel-Nr. 300202619015  
**ORDERING EXAMPLE:** Ball valve from stainless steel with Orbital welding ends with lever handle DN15 = 870.0-DN15 item number 300202619015

Datentabelle data table

| D2     | DN   | LW   | PN    | L    | MM    | R    | H     | h    | 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)   |                           |                            |
| 12,70  | 15   | 9,4  | 63    | 140  | 70    | 125  | 71    | 40,5 | 50   | 9    | F03 / F04 | 36 / 42  | 6 / 6  | 0,697                     | 300202619015               |
| 19,05  | 20   | 15,7 | 63    | 146  | 73    | 125  | 74    | 43,5 | 51   | 9    | F03 / F04 | 36 / 42  | 6 / 6  | 0,770                     | 300202619020               |
| 25,40  | 25   | 22,1 | 63    | 159  | 79,5  | 155  | 84    | 50,5 | 57   | 11   | F04 / F05 | 42 / 50  | 6 / 7  | 1,136                     | 300202619025               |
| 38,10  | 40   | 34,8 | 63    | 191  | 95,5  | 190  | 101,5 | 67,5 | 76   | 14   | F05 / F07 | 50 / 70  | 7 / 9  | 2,465                     | 300202619040               |
| 50,80  | 50   | 47,5 | 63    | 216  | 108   | 190  | 109   | 75,5 | 96   | 14   | F05 / F07 | 50 / 70  | 7 / 9  | 3,911                     | 300202619050               |
| 63,50  | 65   | 60,2 | 40    | 248  | 124   | 190  | 122,5 | 88   | 112  | 14   | F07 / F10 | 50 / 70  | 7 / 9  | 6,860                     | 300202619065               |
| 76,20  | 80   | 72,9 | 40    | 267  | 133,5 | 262  | 155   | 105  | 131  | 17   | F07 / F10 | 70 / 102 | 9 / 11 | 10,360                    | 300202619080               |
| 101,60 | 100  | 97,4 | 40    | 318  | 159   | 262  | 173,5 | 120  | 207  | 17   | F07 / F10 | 70 / 102 | 9 / 11 | 17,460                    | 300202619100               |

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 | 1.4401                                      |
| 3          | Kugeldichtung<br>Ball seal          | PTFE<br>PTFE                 | -                                           |
| 4          | Flansch / Nippel<br>Flange / nipple | Edelstahl<br>Stainless steel | 1.4409                                      |
| 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                                      |
| 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) |
| 15                                    | 1                                                                                     | 1                                                                                     | 5                                   | 5           | 5            | 5            |
| 20                                    | 1                                                                                     | 1                                                                                     | 7                                   | 7           | 7            | 9            |
| 25                                    | 1                                                                                     | 1                                                                                     | 9                                   | 9           | 9            | 11           |
| 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          |