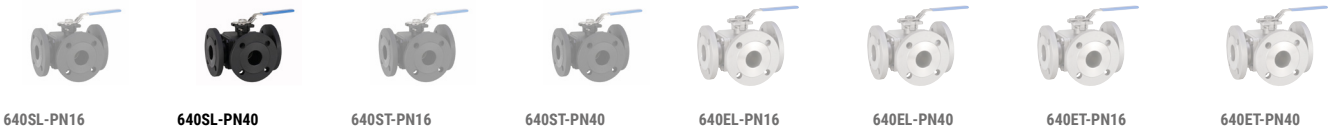




MEHRWEGEKUGELHÄHNE MIT FLANSCHANSCHLUSS  
MULTI-WAY BALL VALVES WITH FLANGE CONNECTIONS

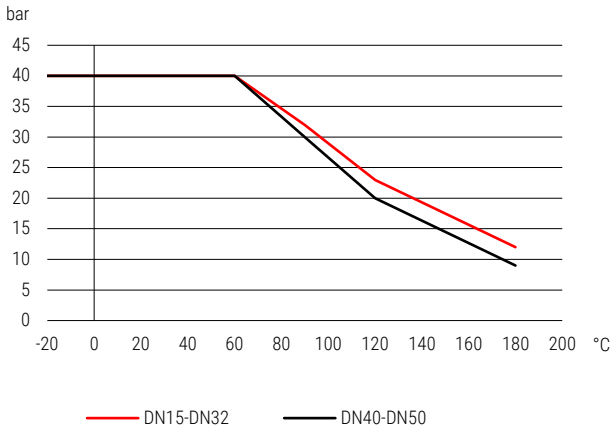
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640SL-PN40 | Stahlguss | Hebelgriff | FI/FI/FI | L-Bohrung Aufbauflansch  
640SL-PN40 | Carbon steel | Lever handle | FI/FI/FI | L-bore mounting flange



Druck-Temperatur-Diagramm pressure-temperature-diagram



Konstruktionsmerkmale Kugelhahn

- Flanschanschlussmaße nach DIN EN 1092-1 Dichtfläche B1
- Flanschanschlussmaße ANSI150 und ANSI300 auf Anfrage
- Direktaufbau von Schwenkantrieben möglich
- Montageflansch nach DIN ISO 5211
- Negative Überdeckung
- Voller Durchgang
- Abschließbar
- Silikonfrei

Standardtemperaturbereich

- 20°C bis + 180°C (abhängig von Betriebsdruck und Dichtsystem)  
Siehe Druck-Temperaturdiagramm

Zulassungstext

Einstufung nach PED Kategorie 3 PED 2014-68-EU

Verwendung

Wasser-Glykol-Mischungen, Heizungs-kreisläufe, Heizöl, Wasserdampf, Wasser allgemein, Isocyanat, Druck-luft, Kraftstoffe, Öl, Thermoöl, Polyol, Tyfocor, Dampf

Design features ball valve

- Flange connections acc. to DIN EN 1092-1 seal surface B1
- Flange connections ANSI150 and ANSI300 on request
- Direct mounting of actuators possible
- Mounting pad acc. to DIN ISO 5211
- Mixed during actuation
- Full port
- Lockable
- Free of silicon

Standard temperature range

- 20°C to + 180°C (depending on wor-king pressure and sealing system)  
Take a look at the pressure-tempera-ture-diagram

Approval text

Classification acc. to PED category 3 PED 2014-68-EU

Suitable for

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



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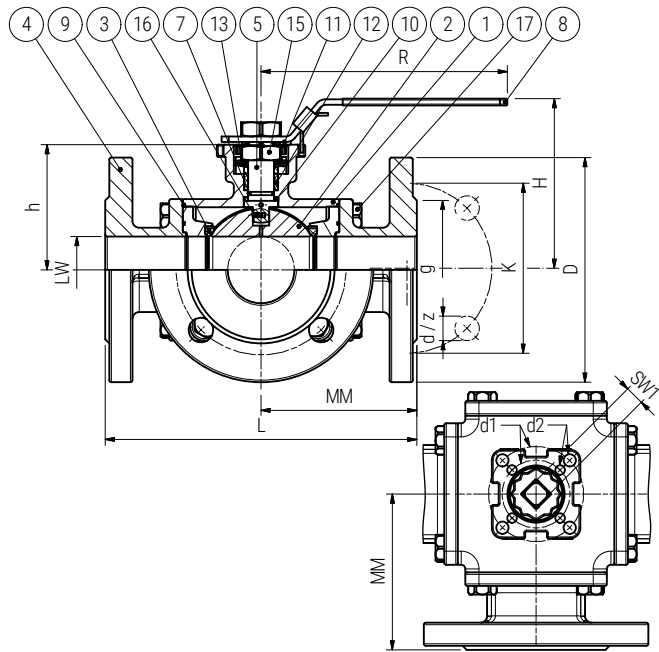
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BESTELLBEISPIEL: Dreiwege-Flanschkugelhahn Stahlguss voller Durchgang L-Bohrung DN15 = 640SL-PN40-DN15 Artikel-Nr. 0020014061015  
ORDERING EXAMPLE: 3-way flange ball valve of carbon steel full port design L-option DN15 = 640SL-PN40-DN15 item number 0020014061015

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   | 40    | 150  | 75   | 145  | 83   | 53   | 95   | 65   | 45   | 4 | 14   | 9    | F03 / F04 | 36 / 42 | 6 / 6 | 4,600                     | 0020014061015              |
| 20   | 20   | 40    | 165  | 82,5 | 145  | 87   | 57   | 105  | 75   | 58   | 4 | 14   | 9    | F03 / F05 | 36 / 50 | 6 / 7 | 6,200                     | 0020014061020              |
| 25   | 25   | 40    | 181  | 90,5 | 175  | 99   | 68   | 115  | 85   | 68   | 4 | 14   | 11   | F04 / F05 | 42 / 50 | 6 / 7 | 8,800                     | 0020014061025              |
| 32   | 32   | 40    | 190  | 95   | 175  | 103  | 72   | 140  | 100  | 78   | 4 | 18   | 11   | F05 / F07 | 50 / 70 | 6 / 9 | 11,600                    | 0020014061032              |
| 40   | 38   | 40    | 212  | 106  | 200  | 119  | 85   | 150  | 110  | 88   | 4 | 18   | 14   | F05 / F07 | 50 / 70 | 7 / 9 | 15,000                    | 0020014061040              |
| 50   | 49   | 40    | 232  | 116  | 200  | 126  | 92   | 165  | 125  | 102  | 4 | 18   | 14   | F05 / F07 | 50 / 70 | 7 / 9 | 20,000                    | 0020014061050              |

Maßskizze measured sketch



Materialtabelle materials grid

| Nr.<br>No. | Bezeichnung<br>Description                    | Werkstoff<br>Material        | Materialbezeichnung<br>Material description |
|------------|-----------------------------------------------|------------------------------|---------------------------------------------|
| 1          | Gehäuse<br>Body                               | Stahlguss<br>Cast steel      | 1.0619                                      |
| 2          | Kugel<br>Ball                                 | Edelstahl<br>Stainless steel | 1.4308                                      |
| 3          | Kugeldichtung<br>Ball seal                    | PTFE mod.<br>PTFE mod.       | -                                           |
| 4          | Flansch / Nippel<br>Flange / nipple           | Stahlguss<br>Cast steel      | 1.0619                                      |
| 5          | Schaltwelle<br>Stem                           | Edelstahl<br>Stainless steel | 1.4301                                      |
| 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                 | -                                           |
| 11         | Anschlagstift<br>Stop pin                     | Edelstahl<br>Stainless steel | 1.4301                                      |
| 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 | 1.4301                                      |
| 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                                                                                     | 6                                  | 6           | 6            | 8            |
| 20                                   | 1                                                                                     | 1                                                                                     | 12                                 | 12          | 12           | 12           |
| 25                                   | 1                                                                                     | 1                                                                                     | 18                                 | 18          | 18           | 20           |
| 32                                   | 1                                                                                     | 1                                                                                     | 30                                 | 30          | 32           | 37           |
| 40                                   | 1                                                                                     | 1                                                                                     | 40                                 | 40          | 45           | 50           |
| 50                                   | 1                                                                                     | 1                                                                                     | 60                                 | 60          | 70           | 80           |