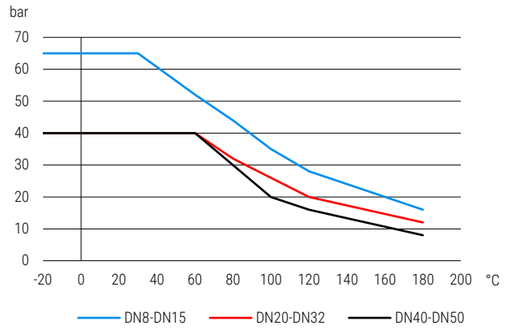
964

# 964 | Messing | Aufbauflansch DIN ISO 5211 | IG/IG

## 964 | Brass | Mounting flange DIN ISO 5211 | F/F

**Druck-Temperatur-Diagramm** pressure-temperature-diagram




CE PED · A1 VDMA 24364

**Konstruktionsmerkmale Kugelhahn**
- Fire Safe Design
- Gehäuse aus Messing sandgestrahlt vernickelt
- Wartungsfrei
- Antriebsmontage direkt möglich
- Montageflansch nach DIN ISO 5211
- Ausblassichere Schaltwelle
- Silikonfrei
- Gewinde nach DIN EN 10226-1
- Voller Durchgang

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

**Zulassungstext**
Einstufung nach PED Kategorie 2 PED 2014-68-EU, LABS konform nach VDMA 24364

**Verwendung**
Heizungskreisläufe, Heizung, Kraftstoffe, Heizöl, Wasser allgemein, Druckluft, Öl, Thermoöl, Tyfocor, Wasser-Glykol-Mischungen

**Design features ball valve**
- Fire Safe Design
- Brass body sand blasted and nickel plated
- Maintenance-free
- Direct mounting of actuators possible
- Mounting pad acc. to DIN ISO 5211
- Blow out proved stem design
- Free of silicon
- Thread acc. to DIN EN 10266-1
- Full port

**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 2 PED 2014-68-EU, LABS conformity acc. to VDMA 24364

**Suitable for**
Heating circuits, Heating, Fuels, Heating oil, general water, Compressed air, Oils, Thermo-oil, Tyfocor, Water-glycol mixture



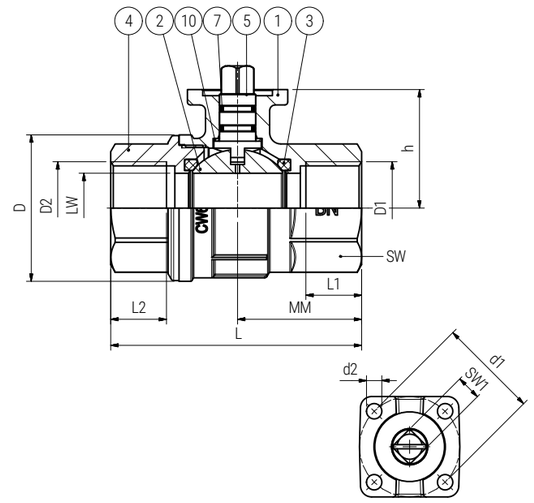


**BESTELLBEISPIEL: Kugelhahn beiderseits Innengewinde mit Aufbauflansch Größe 1/2" = 964-1/2" Artikel-Nr. 0020042011015**
ORDERING EXAMPLE: Ball valve female/female thread with mounting flange size 1/2" = 964-1/2" item number 0020042011015

**Datentabelle** data table

| D1 | D2 | DN (mm) | LW (mm) | PN (bar) | L (mm) | L1 (mm) | L2 (mm) | MM (mm) | H (mm) | h (mm) | D (mm) | SW (mm) | SW1 (mm) | M | d1 (mm) | d2 (mm) | Gewicht Weight (kg) | Artikel-Nr. Item number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rp 1/4" | Rp 1/4" | 8 | 8 | 65 | 60 | 9 | 9 | 25 | 31 | 23 | 28 | 22 | 9 | F03 | 36 | 5,5 | 0,206 | 0020042011006 |
| Rp 3/8" | Rp 3/8" | 10 | 10 | 65 | 60 | 11 | 12,5 | 25 | 31 | 23 | 28 | 22 | 9 | F03 | 36 | 5,5 | 0,196 | 0020042011010 |
| Rp 1/2" | Rp 1/2" | 15 | 15 | 65 | 75 | 15 | 15 | 31,5 | 39,5 | 31 | 34 | 27 | 9 | F03 | 36 | 5,5 | 0,326 | 0020042011015 |
| Rp 3/4" | Rp 3/4" | 20 | 20 | 40 | 80 | 17 | 17 | 37,5 | 47 | 38,5 | 42 | 32 | 9 | F03 | 36 | 5,5 | 0,447 | 0020042011020 |
| Rp 1" | Rp 1" | 25 | 25 | 40 | 90 | 20 | 20 | 44,5 | 51 | 42,5 | 52,5 | 41 | 9 | F03 | 36 | 5,5 | 0,764 | 0020042011025 |
| Rp 1 1/4" | Rp 1 1/4" | 32 | 32 | 40 | 110 | 23 | 23 | 52,5 | 65,3 | 55,5 | 65 | 50 | 11 | F05 | 50 | 6,5 | 1,312 | 0020042011032 |
| Rp 1 1/2" | Rp 1 1/2" | 40 | 40 | 40 | 120 | 24,5 | 24,5 | 59 | 71,8 | 62 | 77,5 | 55 | 11 | F05 | 50 | 6,5 | 1,760 | 0020042011040 |
| Rp 2" | Rp 2" | 50 | 50 | 40 | 140 | 26,5 | 26,5 | 67,5 | 83,3 | 69 | 91,5 | 69 | 14 | F05 | 50 | 6,5 | 2,902 | 0020042011050 |

**Maßskizze** measured sketch




**Materialtabelle** materials grid

| Nr. No. | Bezeichnung Description | Werkstoff Material | Materialbezeichnung Material description |
|---|---|---|---|
| 1 | Gehäuse Body | Messing vernickelt Brass (nickel-plated) | CW617N |
| 2 | Kugel Ball | Edelstahl Stainless steel | 1.4408 |
| 3 | Kugeldichtung Ball seal | PTFE GF PTFE GF | - |
| 4 | Flansch / Nippel Flange / nipple | Messing vernickelt Brass (nickel-plated) | CW617N |
| 5 | Schaltwelle Stem | Messing vernickelt Brass (nickel-plated) | CW617N |
| 7 | Spindeldichtung Spindle seal | FKM FKM | - |
| 10 | Anlaufring Thrust washer | PTFE PTFE | - |

**Verpackungseinheiten** Packing units | **Losbrechmomente** breakaway torque

| DN (mm) | | | PN0 (Nm) | PN7 (Nm) | PN16 (Nm) | PN40 (Nm) |
|---|---|---|---|---|---|---|
| 8 | 1 | 1 | 2 | 2 | 2 | 2 |
| 10 | 1 | 1 | 2 | 2 | 2 | 2 |
| 15 | 1 | 1 | 3 | 3 | 3 | 3 |
| 20 | 1 | 1 | 4 | 4 | 4 | 4 |
| 25 | 1 | 1 | 4 | 4 | 4 | 7 |
| 32 | 1 | 1 | 6 | 6 | 8 | 12 |
| 40 | 1 | 1 | 10 | 10 | 12 | 18 |
| 50 | 1 | 1 | 14 | 14 | 19 | 30 |