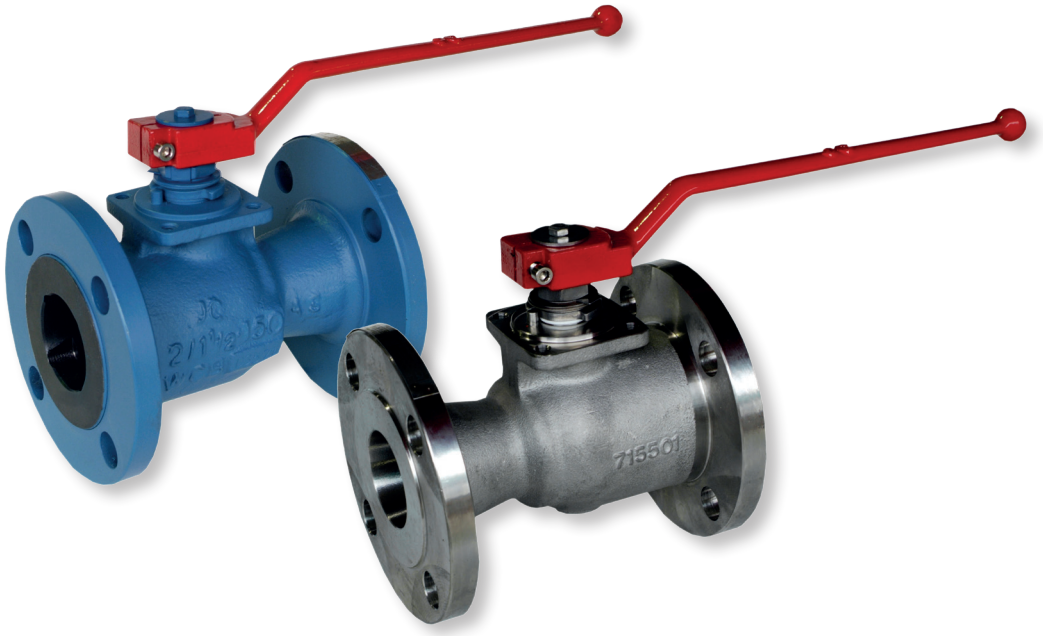
# FLANGED BALL VALVE
# 730 SERIES - ANSI 300

JC VALVES

## GENERAL FEATURES:

- One-piece body - floating ball - reduced bore - blow out proof stem
- Anti-static device according to BS 5351 and ISO 7121
- Cavity balancing hole (standard= 5 mm diameter) in the top of the ball avoids overpressure in the cavity
- All valves meet the TA Luft requirements
- CE and ATEX marked
- ANSI 300, 1/2" - 8"
- Max. temperatures: -29°C ~ 230°C (AIT) and -50°C ~ 230°C (IIT)





Fire safe tested

CE

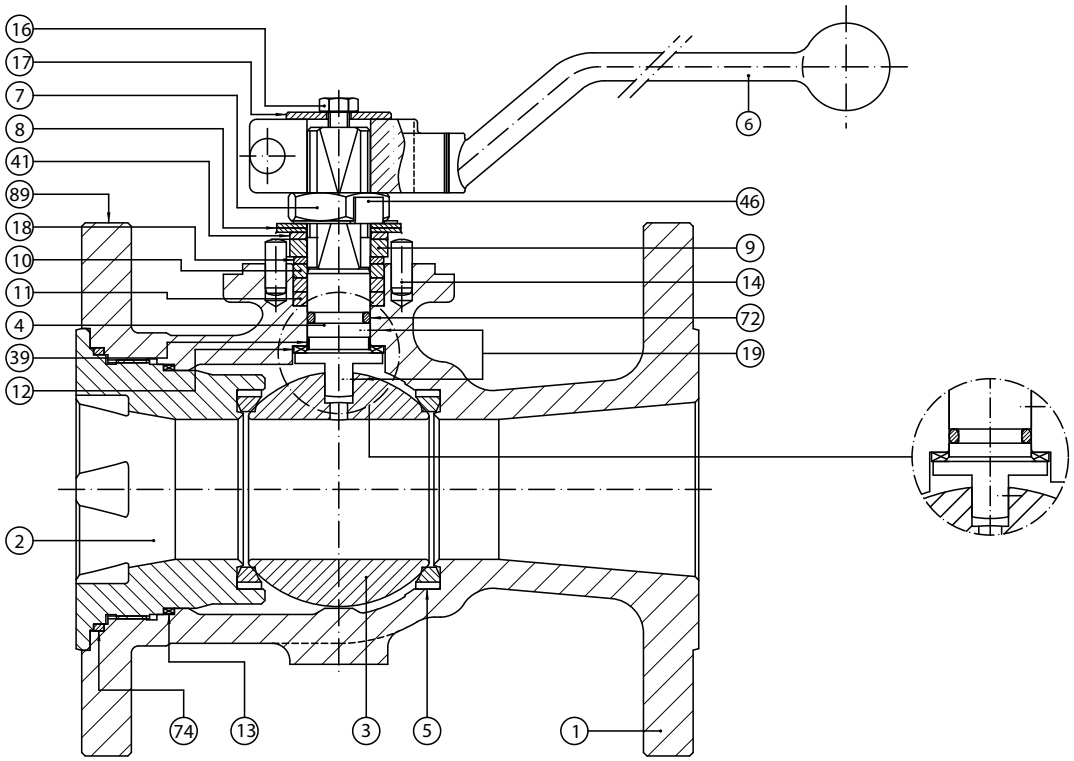
TÜV
TA Luft

ATEX

| DESIGN STANDARDS | |
|---|---|
| Valves design | API 6D |
| Body design | ASME VIII Div.1 |
| Shell thickness | ASME B16.34 |
| Flanges | ASME B16.5 Raised face |
| Face to face dimensions | ASME B16.10 short pattern |
| Actuator mounting flange | ISO 5211 |
| Shell finishing quality | MSS SP 55 |
| Marking | API 6D |
| **TESTS AND CERTIFICATES** | |
| Quality Assurance | ISO 9001, API 6D, CE-PED |
| Fire Safe certification | API 6FA, ISO 10497, API 607 |
| Pressure testing | API 598, API 6D |
| SIL | Level 3 IEC 61508 |
| Other | ISO 14001, ATEX, EN13774 |

Subject to changes

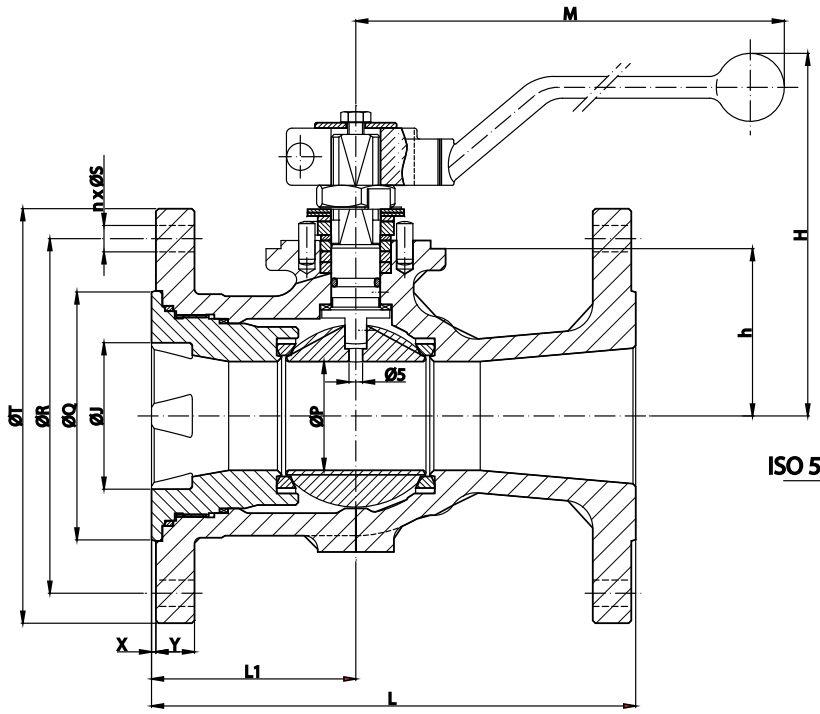
# FLANGED BALL VALVE
# 730 SERIES - Materials



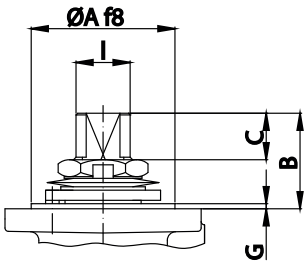

| Item | Description | Materials | |
|---|---|---|---|
| | | AIT | IIT |
| 1 | Body | A 216 Gr. WCB (C≤ 0,25%) | A 351 Gr. CF8M |
| 2 | Body connector | A 216 Gr. WCB (C≤ 0,25%) | A 351 Gr. CF8M |
| 3 | Ball | A 351 Gr. CF8M (DN 15 : 25 A 479 Tp.316) | |
| 4 | Stem | F51 | |
| 5 | Seat ring | PTFE | |
| 6 | Wrench | A 216 Gr. WCB | |
| 7 | Gland nut | Zinc plated carbon steel | AISI 303 |
| 8 | Disk spring | Carbon Steel | Stainless steel A666 TP.301 |
| 9 | Stop plate | Carbon Steel | AISI 304 |
| 10 | Gland | AISI 303 | AISI 316 |
| 11 | Gland packing | Graphite | |
| 12 | Stem thrust seal | 25% G.F. PTFE | |
| 13 | Body connector seal | AISI 316L + PTFE + Graphite | |
| 14 | Stop pin | Carbon Steel (stainless steel DN 150 - 200) | Stainless steel |
| 16 | Bolt | DIN 933 A2 - 70 | DIN 933 A4 - 70 |
| 17 | Washer | Zinc plated carbon steel | AISI 304 |
| 18 | Thrust washer | 25% G.F. PTFE | |
| 19 | Antistatic device | Stainless Steel | |
| 39 | Stem bushing (DN 25 to DN 200) | 25% G.F. PTFE | |
| 41 | Spacer (DN 40 to 200) | Carbon Steel | AISI 304 |
| 46 | Washer | AISI 304 | |
| 72 | "O" Ring | FKM | |
| 74 | Insert seal | Graphite | |
| 89 | Identification plate | Stainless Steel | |

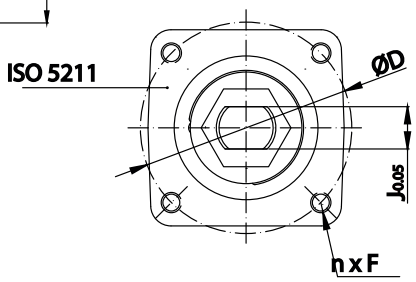
Subject to changes

# FLANGED BALL VALVE
# 730 SERIES - Dimensions

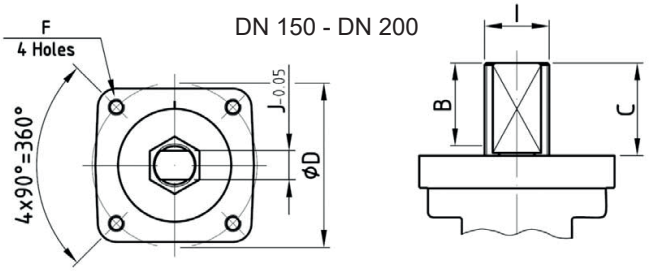



DN 15 - DN 100




DN 150 - DN 200




## DIMENSIONS: (in mm)

| DN | ØJ | Ø P | L | L1 | ØQ | ØR | n x ØS | ØT | X | Y | h | H | M | Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 15 | 10 | 140 | 54,0 | 34,9 | 66,7 | 4x 15,9 | 95 | 2,0 | 12,7 | 21,5 | 81 | 164 | 1,6 |
| 20 | 20 | 15 | 152 | 60,0 | 42,9 | 82,6 | 4x 19 | 115 | 2,0 | 14,3 | 26 | 99 | 164 | 2,1 |
| 25 | 25 | 20 | 165 | 65,0 | 50,8 | 88,9 | 4x 19 | 125 | 2,0 | 15,9 | 29 | 102 | 164 | 4,1 |
| 40 | 40 | 32 | 190 | 72,0 | 73,0 | 114,3 | 4x 22,2 | 155 | 2,0 | 19,1 | 51 | 117 | 210 | 8,2 |
| 50 | 50 | 40 | 216 | 75,0 | 92,1 | 127 | 8x 19 | 165 | 2,0 | 20,7 | 61,5 | 134 | 213 | 10,9 |
| 80 | 80 | 58 | 282 | 88,0 | 127,0 | 168,3 | 8x 22,2 | 210 | 2,0 | 27,0 | 76 | 148 | 348 | 21,4 |
| 100 | 102 | 80 | 305 | 104,0 | 157,2 | 200 | 8x 22,2 | 255 | 2,0 | 30,2 | 92,5 | 189 | 445 | 28,9 |
| 150 | 151 | 111 | 403 | 125,0 | 215,9 | 269,9 | 12x 22,2 | 320 | 2,0 | 35,0 | 144 | 245 | 465 | 65,0 |
| 200 | 200 | 144 | 419 | 135,0 | 269,9 | 330,2 | 12x 25,4 | 380 | 2,0 | 39,7 | 203 | 263 | 684 | 107,0 |

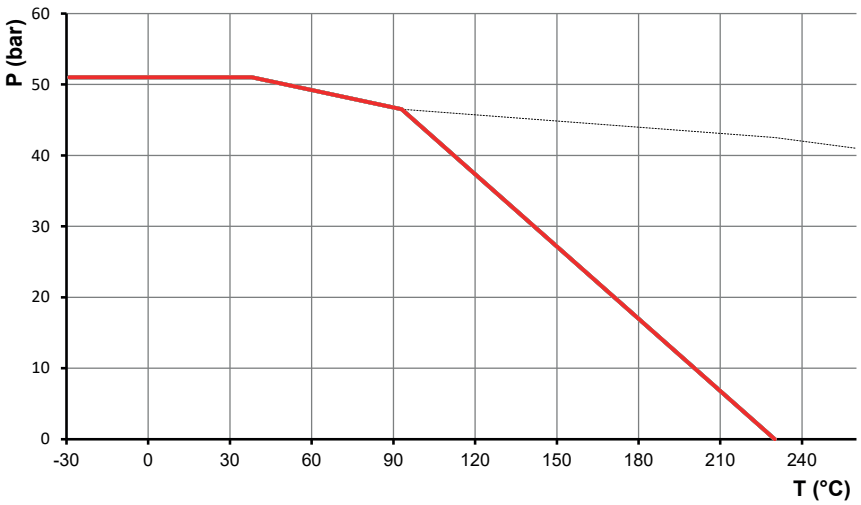
## ACTUATOR CONNECTION: (in mm)

| DN | ISO | Ø A | B | C | Ø D | n x F | G | I | J |
|---|---|---|---|---|---|---|---|---|---|
| 15 | F05 | 35 | 22,0 | 7,9 | 50 | 4x M6 | 1,5 | M10x1,5 | 7 |
| 20 | F05 | 35 | 22,7 | 8,5 | 50 | 4x M6 | 3,0 | M12x1,5 | 9 |
| 25 | F05 | 35 | 22,7 | 8,5 | 50 | 4x M6 | 3,0 | M12x1,5 | 9 |
| 40 | F05 | 35 | 34,5 | 14,0 | 50 | 4x M6 | 3,0 | M16x1,5 | 12 |
| 50 | F07 | 55 | 42,0 | 18,8 | 70 | 4x M8 | 3,0 | M18x1,5 | 13 |
| 80 | F07 | 55 | 44,0 | 18,6 | 70 | 4x M8 | 3,0 | M22x1,5 | 16 |
| 100 | F10 | 70 | 44,5 | 18,6 | 102 | 4x M10 | 3,0 | M25x1,5 | 18 |
| 150 | F10 | - | 45 | 43,5 | 125 | 4x M10 | - | M28x1,5 | 19 |
| 200 | F12 | - | 56 | 54,5 | 165 | 4x M12 | - | M36x2 | 24 |

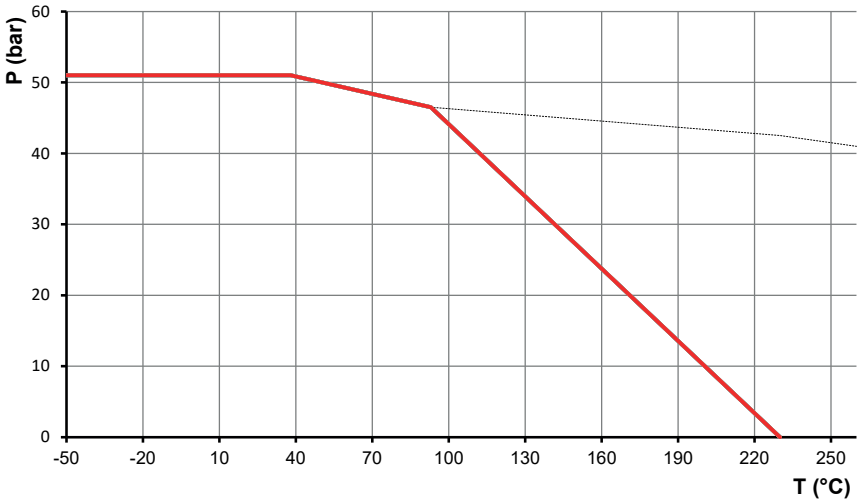
Subject to changes

## PRESSURE-TEMPERATURE CHART:

AIT




IIT




## TORQUES: (in Nm)

| DN | 300 Lbs<br>Differential pressure<br>50 bar |
|---|---|
| 15 | 10 |
| 20 | 12 |
| 25 | 16 |
| 40 | 26 |
| 50 | 35 |
| 80 | 70 |
| 100 | 90 |
| 150 | 238 |
| 200 | 530 |

## Kv VALUE: (in m³/h)

| DN | Kv value |
|---|---|
| 15 | 7 |
| 20 | 10 |
| 25 | 26 |
| 40 | 107 |
| 50 | 140 |
| 80 | 300 |
| 100 | 600 |
| 150 | 1.000 |
| 200 | 2.000 |

Subject to changes