

7.10/7.11 type floating, reduced ball valve (UBF)

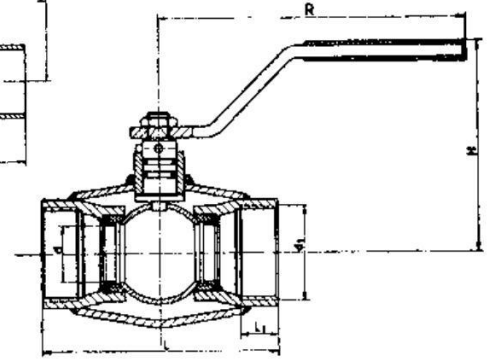
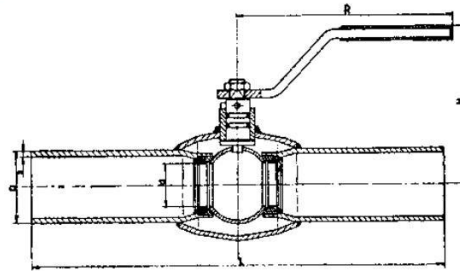
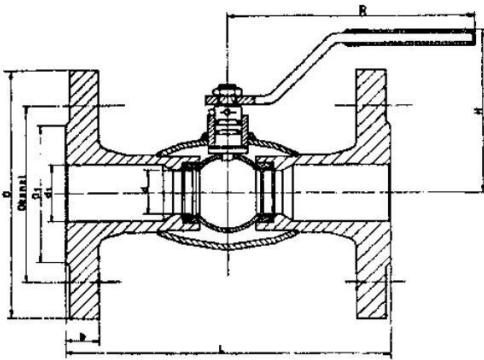
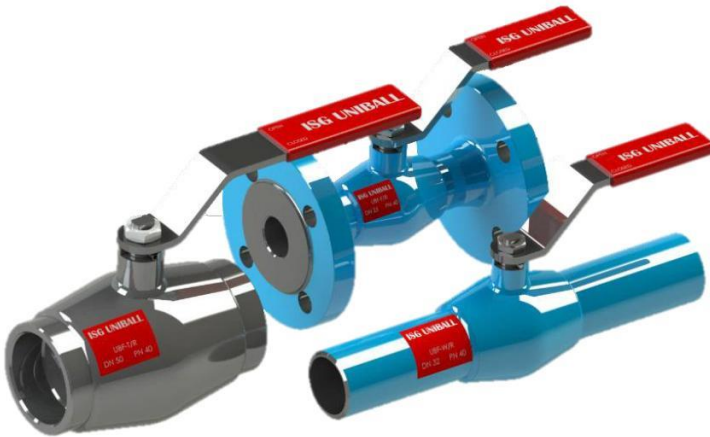
Size / pressure range:

- Flanged (UBF-F/R):
DN10-100 PN40; DN65-250 PN16; DN125-250 PN25
- Weld-on (UBF-W/R):
DN10-100 PN40; DN125-250 PN25
- Inner threaded (UBF-T/R): DN10-100 PN40
- External threaded (UBF-S/R): DN10-50 PN40

Limits of use, working temperature, material according to 1.1.

Operation:

- DN10-200 hand operated (manual)
- DN250 gear
- On demand any nominal size can be produce with gear reparation.



UBF-F/R floating, reduced ball valve, flanged

UBF-W/R floating, reduced ball valve, weld-on

| PN40 | | | | | | | | | | |
|-------|-----|-------|-----|-----|--------------|----|-----|-----|-----|-------|
| DN | d | d1 | D | D1 | Dk x n x l | b | L | H | R | kg/pc |
| 10 | 10 | 12 | 90 | 42 | 60 x 4 x 14 | 16 | 120 | 74 | 130 | 1,4 |
| 15 | 10 | 15 | 95 | 47 | 65 x 4 x 14 | 16 | 130 | 74 | 130 | 1,6 |
| 20 | 15 | 20 | 105 | 58 | 75 x 4 x 14 | 18 | 150 | 78 | 130 | 2,5 |
| 25 | 20 | 25 | 115 | 68 | 85 x 4 x 14 | 18 | 160 | 85 | 135 | 2,8 |
| 32 | 25 | 32 | 140 | 78 | 100 x 4 x 18 | 18 | 180 | 90 | 135 | 4,6 |
| 40 | 32 | 40 | 150 | 88 | 110 x 4 x 18 | 18 | 200 | 140 | 180 | 6,1 |
| 50 | 40 | 50 | 165 | 102 | 125 x 4 x 18 | 20 | 230 | 140 | 180 | 8,1 |
| 65 | 50 | 70,3 | 185 | 122 | 145x8x18 | 22 | 270 | 150 | 280 | 8,9 |
| 80 | 65 | 82,5 | 200 | 133 | 160x8x18 | 24 | 280 | 162 | 300 | 10,4 |
| 100 | 80 | 100,8 | 235 | 158 | 190x8x22 | 24 | 300 | 170 | 400 | 19 |
| PN 16 | | | | | | | | | | |
| DN | d | d1 | D | D1 | Dk x n x l | b | L | H | R | kg/pc |
| 65 | 50 | 71 | 185 | 122 | 145x4x18 | 18 | 270 | 150 | 280 | 8,4 |
| 80 | 65 | 83,5 | 200 | 138 | 160x8x18 | 20 | 280 | 162 | 300 | 10,4 |
| 100 | 80 | 108 | 220 | 158 | 180x8x18 | 20 | 300 | 170 | 400 | 19 |
| 125 | 95 | 126 | 250 | 188 | 210x8x18 | 22 | 325 | 180 | 500 | 23,2 |
| 150 | 120 | 151 | 285 | 212 | 240x8x23 | 22 | 350 | 235 | 650 | 33,6 |
| 200 | 150 | 206,5 | 340 | 268 | 295x12x22 | 24 | 400 | 252 | 850 | 56 |
| 250 | | | | | | | | | | |
| PN 25 | | | | | | | | | | |
| DN | d | d1 | D | D1 | Dk x n x l | b | L | H | R | kg/pc |
| 125 | 95 | 125 | 270 | 184 | 220x8x26 | 26 | 325 | 180 | 500 | 26 |
| 150 | 120 | 150 | 300 | 212 | 250x8x26 | 28 | 350 | 235 | 650 | 38 |
| 200 | 150 | 206,5 | 360 | 278 | 310x12x26 | 30 | 400 | 252 | 850 | 63 |
| 250 | | | | | | | | | | |

| PN40 | | | | | | | |
|-------|-----|------|-----|-----|-----|-----|-------|
| DN | d | D | s | L | H | R | kg/pc |
| 10 | 10 | 17,2 | 2,0 | 210 | 74 | 130 | 0,4 |
| 15 | 10 | 21,3 | 2,0 | 210 | 74 | 130 | 0,4 |
| 20 | 15 | 26,9 | 2,3 | 230 | 78 | 130 | 0,6 |
| 25 | 20 | 33,7 | 2,6 | 230 | 85 | 135 | 0,8 |
| 32 | 25 | 42,4 | 2,6 | 260 | 90 | 135 | 1,2 |
| 40 | 32 | 48,3 | 2,6 | 260 | 98 | 180 | 2,4 |
| 50 | 40 | 60,3 | 2,9 | 300 | 98 | 180 | 3,0 |
| 65 | 50 | 76 | 2,9 | 270 | 150 | 280 | 3,1 |
| 80 | 65 | 89 | 3,2 | 280 | 162 | 300 | 4,5 |
| 100 | 80 | 114 | 3,6 | 300 | 170 | 400 | 7,6 |
| PN 25 | | | | | | | |
| DN | d | D | s | L | H | R | kg/pc |
| 125 | 95 | 133 | 4 | 325 | 180 | 500 | 15 |
| 150 | 120 | 159 | 4,5 | 350 | 235 | 650 | 24 |
| 200 | 150 | 219 | 6,3 | 400 | 252 | 850 | 38 |
| 250 | | | | | | | |

UBF-S/R floating, reduced ball valve, external threaded

| DN | d | d1 | L1 | L | H | R | kg/pc |
|----|----|--------|----|-----|----|-----|-------|
| 10 | 10 | 3/8" | 12 | 60 | 74 | 130 | 0,3 |
| 15 | 10 | 1/2" | 14 | 65 | 74 | 130 | 0,3 |
| 20 | 15 | 3/4" | 16 | 75 | 78 | 130 | 0,4 |
| 25 | 20 | 1" | 14 | 90 | 85 | 135 | 0,5 |
| 32 | 25 | 1 1/4" | 16 | 105 | 9 | 135 | 1,0 |
| 40 | 32 | 1 1/2" | 16 | 120 | 98 | 180 | 2,2 |
| 50 | 40 | 2" | 19 | 145 | 98 | 180 | 2,7 |

UBF-T/R floating, reduced ball valve, inner threaded

| DN | d | d1 | L1 | L | H | R | kg/pc |
|-----|----|--------|----|-----|----|-----|-------|
| 10 | 10 | 3/8" | 12 | 60 | 74 | 130 | 0,3 |
| 15 | 10 | 1/2" | 14 | 65 | 74 | 130 | 0,3 |
| 20 | 15 | 3/4" | 16 | 75 | 78 | 130 | 0,4 |
| 25 | 20 | 1" | 14 | 90 | 85 | 135 | 0,5 |
| 32 | 25 | 1 1/4" | 16 | 105 | 9 | 135 | 1,0 |
| 40 | 32 | 1 1/2" | 16 | 120 | 98 | 180 | 2,2 |
| 50 | 40 | 2" | 19 | 145 | 98 | 180 | 2,7 |
| 65 | | | | | | | |
| 80 | | | | | | | |
| 100 | | | | | | | |

1.1. General parameters of 7.10/7.11 type floating ball valves

The main feature of ball valves is that the end ball is built independently between two statuesque rings (PTFE). The ball valves close reliably within the whole stress scope in case of small stress difference. The ball valves are not suggested to use for regulation of flow, or only for a short period of time. By turning the end ball with 90° the ball valve can be opened or shut, it is boarded by a buffer. The opening and closing of ball valves can be very fast, so it is recommended to use them where this feature is a requirement or where the stress difference does not cause any damage in the pipe because of the fast opening and closing.

The 7.10/7.11 types ball valves have welded body design. Depending on the material quality of main components, there is a carbon steel and incorrigible design with reduced or full bore cross section.

Manufactured nominal size range:

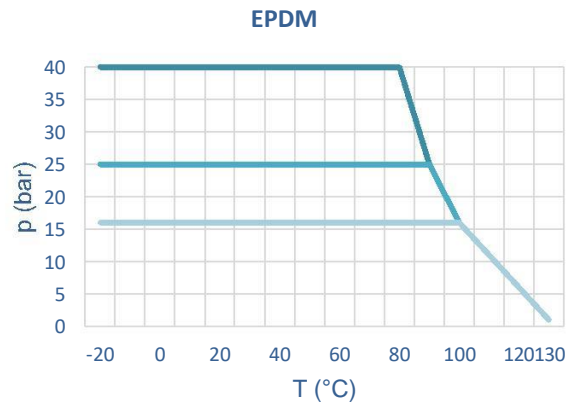
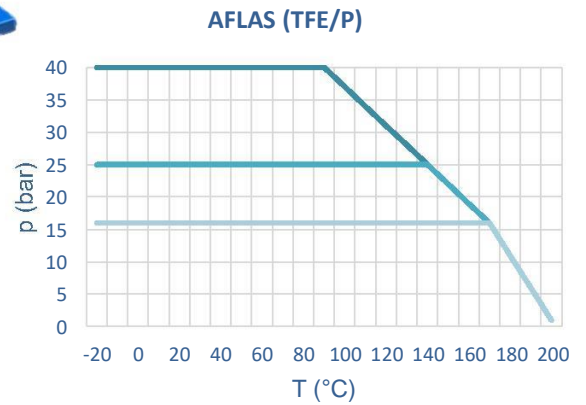
- Reduced bore: DN10 - DN250
- Full bore: DN10 – DN200

The stems are sealed with 2 "O,-rings. The material quality of "O,-rings varies depending on the medium:

- **EPDM:** water, sewage, water-based chemicals, synthetic detergents ($T_{max}: 130^{\circ}C$)
- **Viton:** oil, gasoline, natural gas, PB gas, normal and high temperature oils, greases
- **AFLAS (TFE/P):** due to its higher thermal resistance, mainly raised high water, water vapor ($T_{max}: 200^{\circ}C$)

The action of ball valves can be manual or machine-made. The machine-made action can be pneumatic or electrical.

UBF floating ball valves can be produced normally with 3 different end connection: threaded, weld-on and flanged, or on demand with their variation as well.



| Materials (carbon steel type) | |
|----------------------------------|--|
| Body | P235GH/P265GH |
| Sleeve | 1.4301 |
| Ball | 1.4301 |
| Stem | 1.4021 |
| Stem sealing | EPDM/AFLAS/VITON |
| End connection | P235GH/P265GH: welded, threaded P250GH: flanged |
| Materials (stainless steel type) | |
| Body | 1.4301/1.4571 |
| Sleeve | 1.4301/1.4571 |
| Ball | 1.4301 |
| Stem | 1.4301/1.4571 |
| Stem sealing | EPDM/AFLAS/VITON |
| End connection | 1.4301/1.4571: Weld-on, threaded, flanged |

| Types: | |
|------------------------------|-------|
| Description | Codes |
| Floating | UBF |
| Floating isolated | UBFI |
| Floating 3-way | UBF3 |
| Floating with heating jacket | UBFH |
| Floating drilled | UBFD |
| Floating with packing-gland | UBFS |
| Floating ground-mounted | UBFU |