

7.14 type floating 3-way ball valve (UBF3)

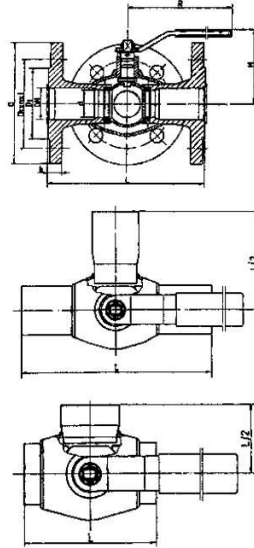
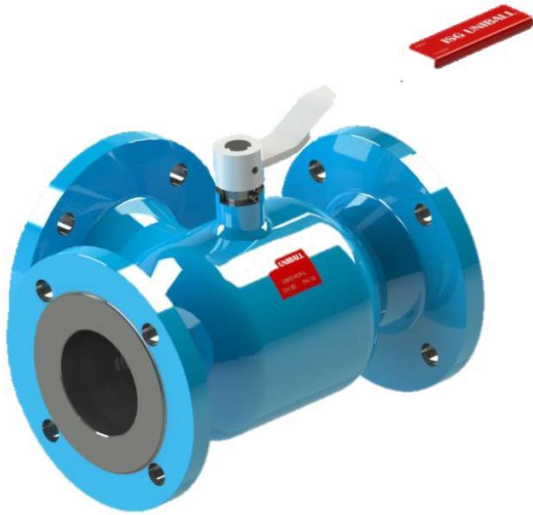
Size / pressure range:

DN10-100 PN40; DN65-100 PN16 in case of flanged type

End connection: flanged, weld-on, threaded

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

At function, we distinguish between "L-rotary" and "T-rotating" versions. The "T-rotating" can also be used for directional change and mixing, with "L-rotating" only for directional change.



7.14 type floating 3-way ball valve, flanged (UBF3-F/R)

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	71	185	122	145 x 4 x 18	18	270	150	290	8,4
80	65	82,5	200	138	160 x 8 x 18	20	280	170	290	10,4
100	80	108	220	158	180 x 8 x 18	20	300	215	400	19

7.14 type floating 3-way ball valve, inner threaded (UBF3-T/R)

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

7.14 type floating 3-way ball valve, weld-on (UBF3-W/R)

DN	d	D	s	L	H	R	kg/pc
10	10	17,2	2,0	210	74	130	0,6
15	10	21,3	2,0	210	74	130	0,6
20	15	26,9	2,3	230	78	130	0,8
25	20	33,7	2,6	230	85	135	1,1
32	25	42,4	2,6	260	90	135	1,5
40	32	48,3	2,6	260	98	180	2,7
50	40	60,3	2,9	300	98	180	3,4

1.1 General parameters of 7.14 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.

7.14 type ball valves have welded body design. Depending on the material quality of main components, there is a carbon steel and incorrodible design with reduced or full bore cross section.

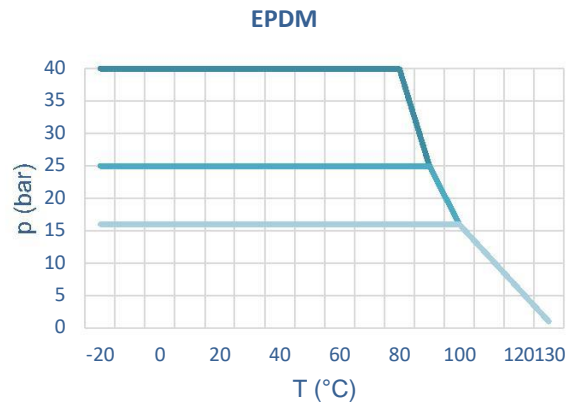
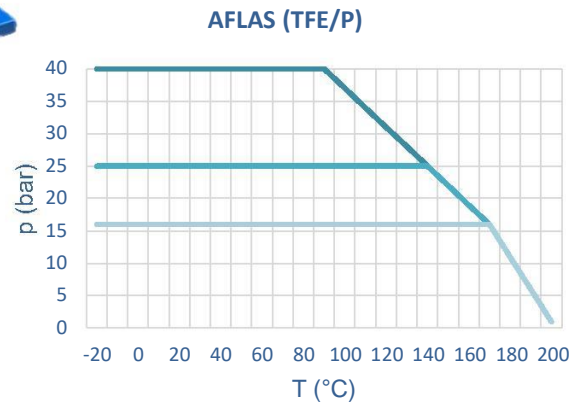
Manufactured nominal size range:

- 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.



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