7.12/7.13 types, floating, full bore ball valve (UBF)

Size / pressure range :

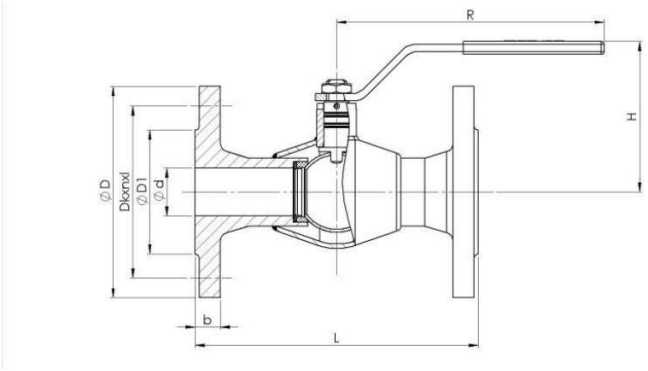
- Flanged (UBF-F/F):
  DN10-100 PN40; DN65-200 PN16; DN125-200 PN25
- Weld-on (UBF-W/F):
  DN10-100 PN40; DN125-200 PN25
- Inner threaded (UBF-T/F): DN10-100 PN40
- Extrenal threaded (UBF-S/F): DN10-50 PN40

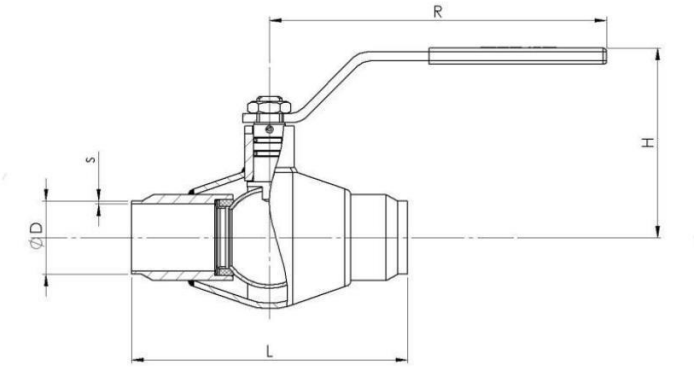
Limits of use, working temperature, material according to 1.1

Operation:

- DN10-150 hand operated (manual)
- DN200 gear

On demand any nominal size can be produce with gear preparation.





7.21/7.13 type floating, full bore ball valve, flanged (UBF-F/F)

DN	d	d1	D	D1	Dk x n x l	b	L	H	R	kg/pc
PN40										
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										
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
PN 25										
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

7.12/7.13 type floating, full bore ball valve, external threaded (UBF-S/)

DN	d	d_1	L_1	L	H	R	kg/pc
10	10	3/8"	12	60	74	130	0,3
15	10	½"	14	65	74	130	0,3
20	15	¾"	16	75	78	130	0,4
25	20	1"	14	90	85	135	0,5
32	25	1 ¼"	16	105	9	135	1,0
40	32	1 ½"	16	120	98	180	2,2
50	40	2"	19	145	98	180	2,7

7.12/7.13 type floating, full bore ball valve, weld-on (UBF-W/F)

DN	d	D	s	L	H	R	kg/pc
PN40							
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							
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

7.12/7.13 type full bore ball valve, inner threaded (UBF-T/F)

DN	d	d_1	L_1	L	H	R	kg/pc
10	10	3/8"	12	60	74	130	0,3
15	10	½"	14	65	74	130	0,3
20	15	¾"	16	75	78	130	0,4
25	20	1"	14	90	85	135	0,5
32	25	1 ¼"	16	105	9	135	1,0
40	32	1 ½"	16	120	98	180	2,2
50	40	2"	19	145	98	180	2,7
65							
80							
100							

1.1. General parameters of 7.12/7.13 types 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.

7.12/7.13 types 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.

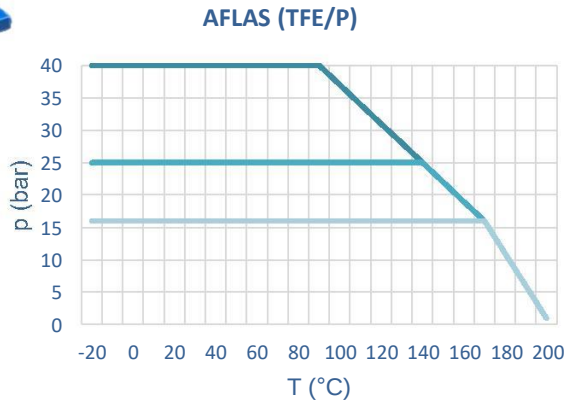
Manufactured nominal size range:

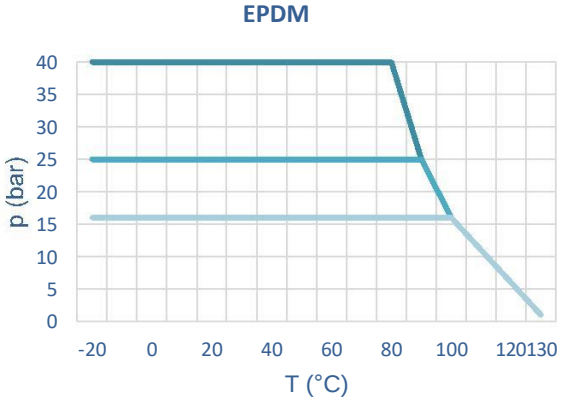
- Reduced bore: DN10 - DN250
- Full bore: DN10 – DN200

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°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°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