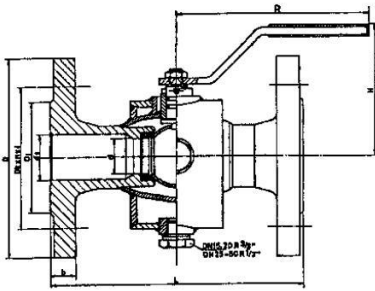


7.15 type, floating, heating jacket ball valve (UBFH)



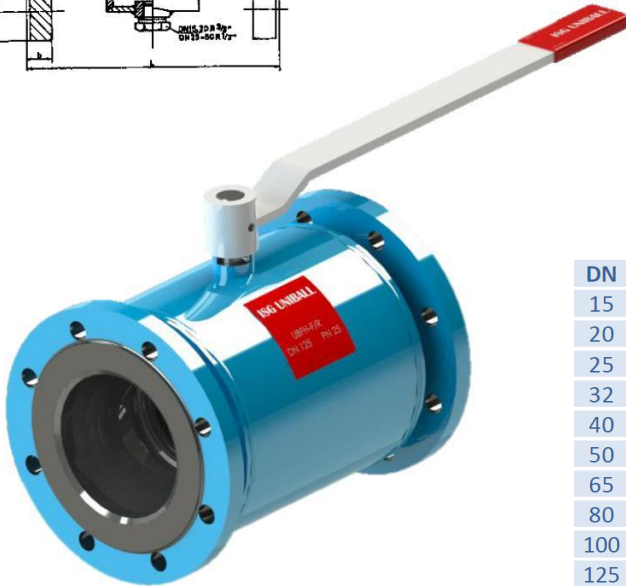
Size / pressure range:

DN10-100 PN40; DN65-100 PN16

End connection: flanged

Limits of use, working temperature, material according to general information.

7.15 type floating ball valve with heating jacket is basically a standard 7.15 type floating ball valve for which a heating jacket is built.



DN	d	d1	D	D1	Dk x n x l	b	L	H	R	kg/pc
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	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	15,2
125	95	126	250	188	210x8x18	22	325	180	500	23,2
150	120	151	285	212	240x8x23	22	350	235	650	33,6

7.16 type floating drilled ball valve (UBFD)

Size / pressure range:

DN25-100 PN40

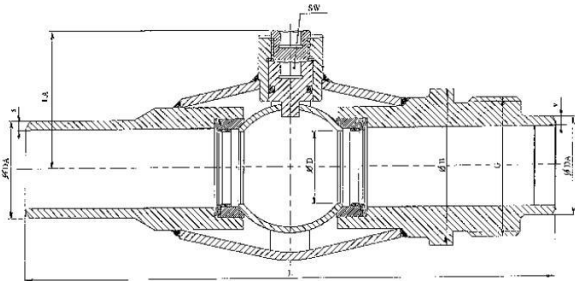
Application:

It is used to drill pipelines under power for new offset or for a possibility of a new offset.



Working temperature, material according to general information.

The main technical parameter of drilled ball valves are the same as the other our types floating ball valves. It has full bore cross-section; it lets through the drilling according to nominal diameter. The threaded clamping sleeve of the drill can be modified as necessary to the drill type. It can be opened or closed with imbus key. The sealing system of the operating part can be doubled with end cap. The welding of this end it can be created a full welded system. The low construction height allows the ball valve to have homogeneous, equivalent insulation with the pipeline.



DN	ØD	ØDA	s	v	G	LA	ØB	L	SW
25	25	33,7	4,2	2,6	1 ½"	45	48	180	6
32	32	42,4	4	2,6	1 ½"	50	54	200	10
40	40	48,3	4	2,6	2 ½"	54	76	210	10
50	50	60,3	5	2,9	2 ½"	61	94	240	10
65	65	76,1	5,3	2,9	2 ¾"	78	121	260	10
80	80	88,9	4,1	3,2	3"	100	145	280	12
100	100	114,3	6,5	3,6	4"	114	171	300	12

7.17 type floating isolated ball valve (UBFI)

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The extended operating element allows the ball valve to have equivalent insulation with the pipeline. Firstly it is used in central heating system. But it can be used everywhere to keep the working temperature of flow.

End connection possibilities, size and pressure range, technical parameters (except heights) are the same as our floating ball valve **(7.10/7.11 and 7.12/7.13)**.



Floating isolated, full bore ball valve (UBFI)		Floating, isolated, reduced ball valve (UBFI)	
DN	H	DN	H
10	110	15	110
15	114	20	114
20	123	25	123
25	127	32	127
32	141	40	141
40	147	50	147
50	215	65	215
65	230	80	230
80	247	100	247
100	267,5	125	267,5
125	309,5	150	309,5

7.18 type floating ball valve with packing-gland (UBFS)



7.18 type floating ball valve with packing-gland has difference in sealing system from the standard version of other our type floating ball valve, the sealing is done using a teflon tape, not an „O”-ring.

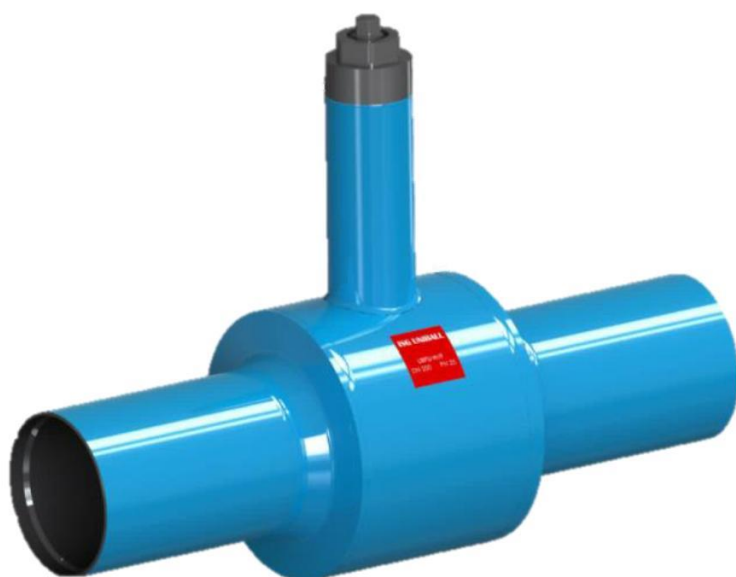
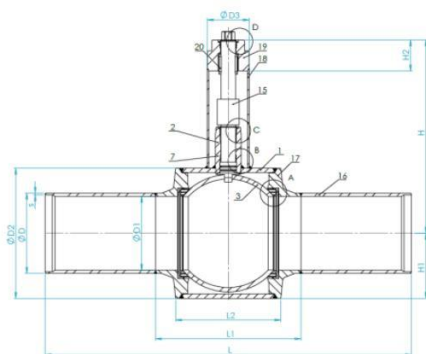
Applications:

Within the specified temperature and pressure range for cold and hot water, steam, air, oil, petrol, natural and PB gas, and other petrochemical products.

End connection possibilities, size and pressure range, technical parameters are the same as our floating ball valve.

(7.10/7.11 and 7.12/7.13)

7.19 type floating ground-mounted ball valve (UBFU)



7.19 type floating, ground-mounted ball valve is a modified floating ball valve, which can be constructed between ground conductors resulting from its design.

Size / pressure range:

- Reduced bore: DN25-100 PN40; DN125-250 PN25
- Full bore: DN25-80 PN40; DN100-200 PN25.

Working temperature, material according to general information.

7.19 type floating, ground-mounted, full bore ball valve (UBFU-W/F)

DN	D1	D2	D3	D	s	H	L	L1	L2
25	25	64	48	33,7	2,9	415	1000	100	75
32	32	80		42,4	3,2			110	85
40	40	94		48,3	3,2			130	105
50	50	102		60,3	3,2			180	148
65	65	121		76,1	3,2			220	164
80	80	159		88,9	3,2			225	184
100	100	177,8	90	114,3	63	465	1500	208	170
125	125	219,1	114,3	139,7	7,1	485		234	200
150	150	273		168,3	7,1	512		278	220
200	200	355,6		219	8,5	582		357	300

7.19 type floating, ground-mounted, reduced ball valve (UBFU-W/R)

DN	D1	D2	D3	D	s	H	L	L1	L2		
25	20	53	48	33,7	2,9	415	1000	100	75		
32	25	64		42,4	3,2					110	85
40	32	80		48,3	3,2					130	105
50	40	94		60,3	3,2					180	148
65	50	102		76,1	3,2					220	164
80	65	121		88,9	3,2					225	184
100	80	159	90	114,3	63	465	1500	208	170		
125	100	177,8	114,3	139,7	7,1	485		234	200		
150	125	219,1		168,3	7,1	512		278	220		
200	150	273		219	8,5	582		357	300		
250	200	355,6		273	8,5	582					

7.20 type trunnion ball valve (UBT)

7.20 type trunnion ball valve is an improved version of other our floating ball valve. There is a significant difference between the double bearing.

Advantages:

- Two-sided closure
- Moderate operating torque
- To assemble
- Favorable flowing conditions
- Multifunctional armature

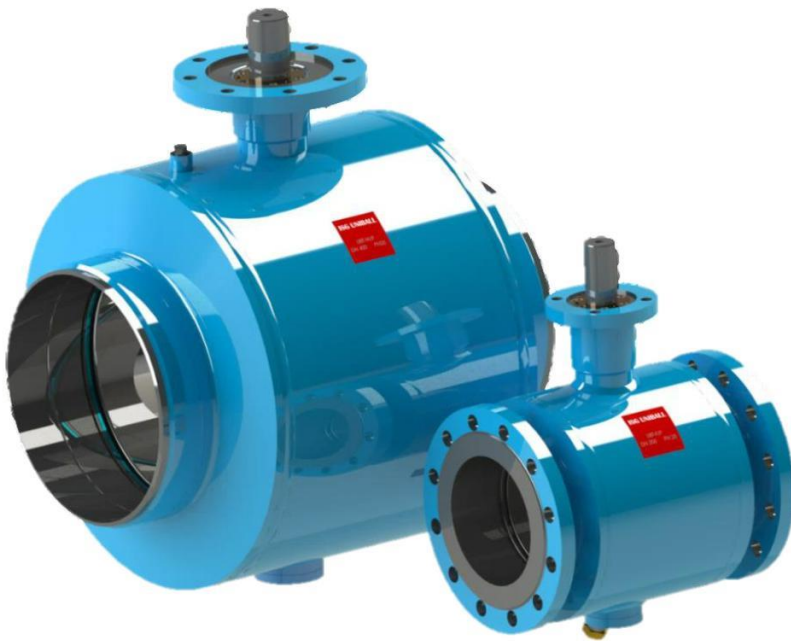
Manufactured nominal size range:

- Reduced: DN125 - DN500
- Full bore: DN100 – DN500

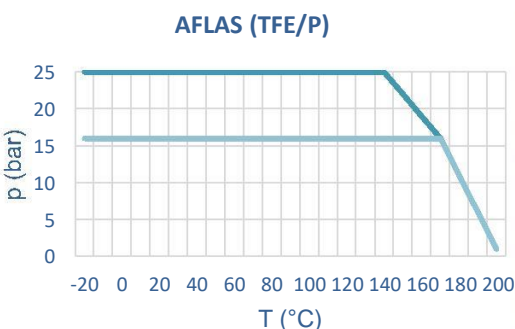
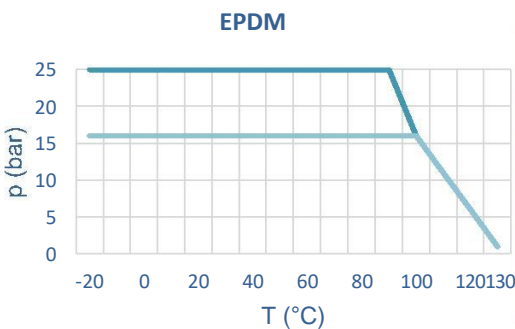
The stems are sealed with an "O"-ring. The material quality of the "O"-rings varies depending on the medium:

- **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 ($T_{max}: 200^{\circ}C$)

7.20 type trunnion ball valves can be produced with 2 different end connection: weld-on and flanged.



Materials			
Body	P265GH		
Sleeve	P265GH		
Ball	1.4301		
Stem	1.4021		
Stem sealing	EPDM/AFLAS/VITON		
End connection	P265GH: weld-on P250GH: flanged		
Gear flange (ISO 5211)		Operating torque demand	
DN	d (mm)	DN	M (Nm)
100F/125R	F12	22	100F/125R 330
125F/150R		30	125F/150R 580
150F/200R	F14	30	150F/200R 650
200F/250R		50	200F/250R 1100
250F/300R	F16	50	250F/300R 2100
300F/350R		65	300F/350R 3300
350F/400R	F25	65	350F/400R 3800
400F/500R		65	400F/500R 4360
500F	80	500F	6500



7.20 type trunnion, full bore ball valve, flanged (UBT-F/F)

DN	D	H	H1	FTF12		FTF15	
				L	m	L	m
100	100	204	134	-	-	300	42
125	125	220	150	-	-	325	53
150	150	237	167	394	74	350	71
200	200	312	208	457	138	400	130
250	250	349	242	533	195	450	186
300	300	375	295	610	328	500	314
350	340	400	320	686	432	550	416
400	390	454	364	762	585	600	565
500	490	534	444	914	958	700	936

7.20 type trunnion, full bore ball valve, weld-on (UBT-W/F)

DN	D	H	H1	FTF12		FTF15	
				L	m	L	m
100	100	204	134	-	-	300	39
125	125	220	150	-	-	325	49
150	150	237	167	394	56	350	54
200	200	312	208	457	115	400	111
250	250	349	242	533	155	450	149
300	300	375	295	610	298	500	284
350	340	400	320	686	408	550	381
400	390	454	364	762	542	600	524
500	490	534	444	914	904	700	888

7.20 type trunnion, reduced ball valve, flanged (UBT-F/R)

DN	D	H	H1	FTF12		FTF15	
				L	m	L	m
125	100	204	134	-	-	325	44
150	125	220	150	394	71	350	67
200	150	237	167	457	93	400	89
250	200	312	208	533	155	450	146
300	250	349	242	610	235	500	225
350	300	375	295	686	358	550	344
400	340	400	320	762	470	600	450
500	390	454	364	914	623	700	601

7.20 type trunnion, reduced ball valve, weld-on (UBT-W/R)

DN	D	H	H1	FTF12		FTF15	
				L	m	L	m
125	100	204	134	-	-	325	41
150	125	220	150	394	61	350	59
200	150	237	167	457	75	400	72
250	200	312	208	533	132	450	124
300	250	349	242	610	185	500	175
350	300	375	295	686	328	550	314
400	340	400	320	762	380	600	360
500	390	454	364	914	580	700	557

1.1. General parameters of 7.10/7.20 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 7.10/7.20 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:

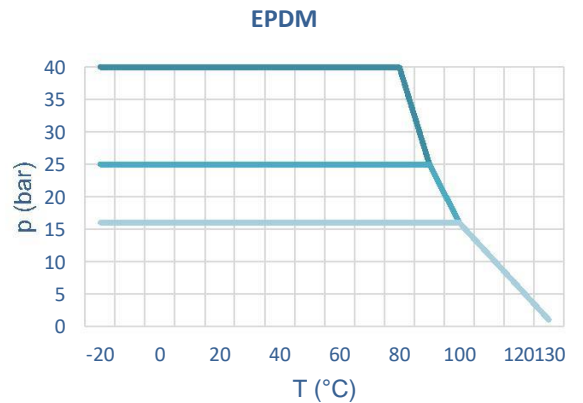
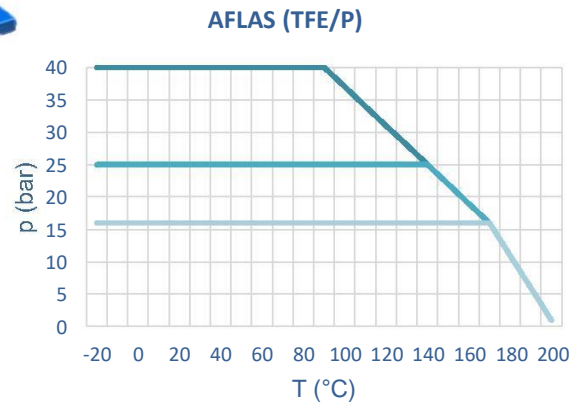
- Reduced bore: DN10 - DN250
- Full bore: DN10 – DN200

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