

C73

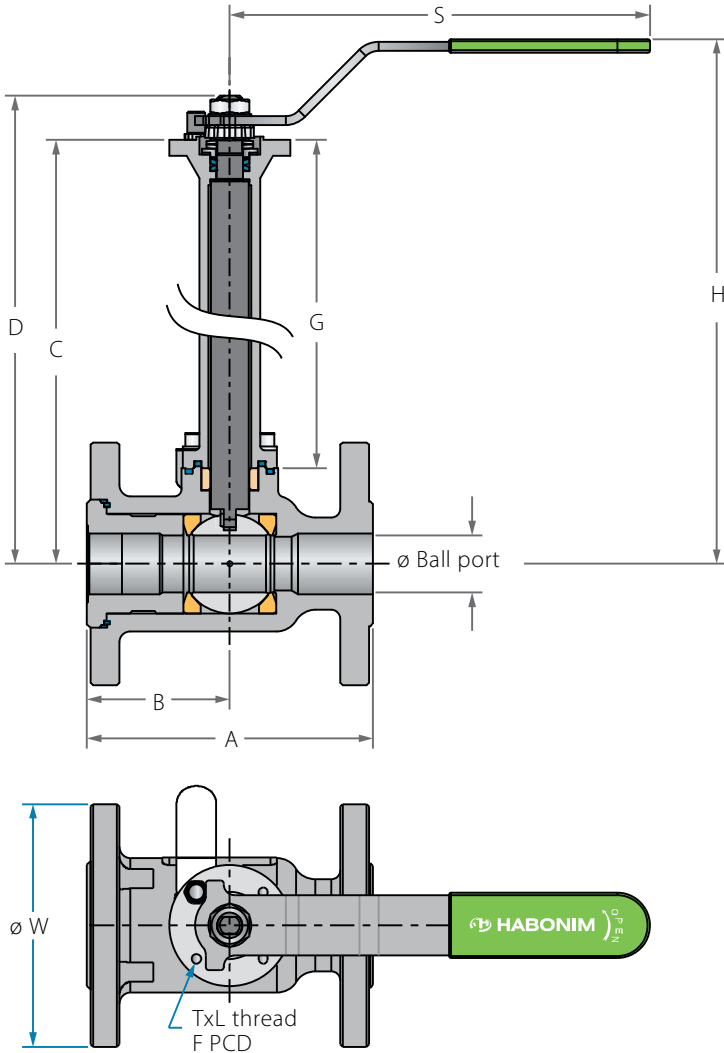
C74

C78

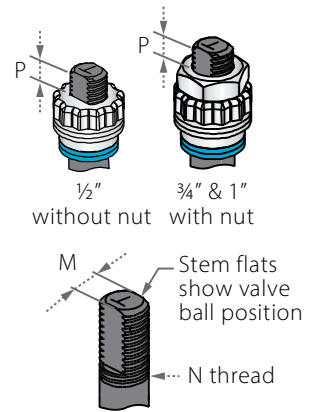
1/2"-1" | DN15-DN25
CLASS 150/300/PN 40

Cryogenic Flanged Full Port Floating Ball

Valve dimensions



Preparation for actuation



Full Port	Unit	Ball port	A_73				A_74				A_78				Standard design				6.0" bonnet				S	W	M	N	P	F	TxL	Weight		Kv
			F1	F4	B	C	D	G	H	C	D	G	H	Std.	6.0"	kg/lb	Cv															
DN15	mm	14.3	108.2	140	130	115	48.2	335.4	344.3	304	400	183.8	192.7	152.4	248.4	150	89	5.5	3/8" UNF	7.2	(F03)	36	M5X7	2.6	2.28	26						
1/2"	inch	0.56	4.26	5.51	5.12	4.53	1.9	13.2	13.56	11.97	15.75	7.24	7.59	6	9.78	5.91	3.5	0.22	0.28	1.42	M5X7	5.73	5.03	30								
DN20	mm	20.6	117	153	150	120	59	342.15	359.65	304	406.8	190.55	208.05	152.4	255.2	187	98	7.54	1/2" UNF	7.2	(F04)	42	M5X7	3.8	3.45	43						
3/4"	inch	0.81	4.61	6.02	5.91	4.72	2.32	13.47	14.16	11.97	16.02	7.5	8.19	6	10.05	7.36	3.86	0.3	0.28	1.65	M5X7	8.38	7.60	50								
DN25	mm	25.4	127	165	160	125	64	346.65	364.15	304	411.3	195.05	212.55	152.4	259.7	187	108	7.54	1/2" UNF	7.2	(F04)	42	M5X7	4.6	4.25	85						
1"	inch	1	5	6.5	6.3	4.92	2.52	13.65	14.34	11.97	16.19	7.68	8.37	6	10.22	7.36	4.25	0.3	0.28	1.65	M5X7	10.14	9.37	105								

C73

C74

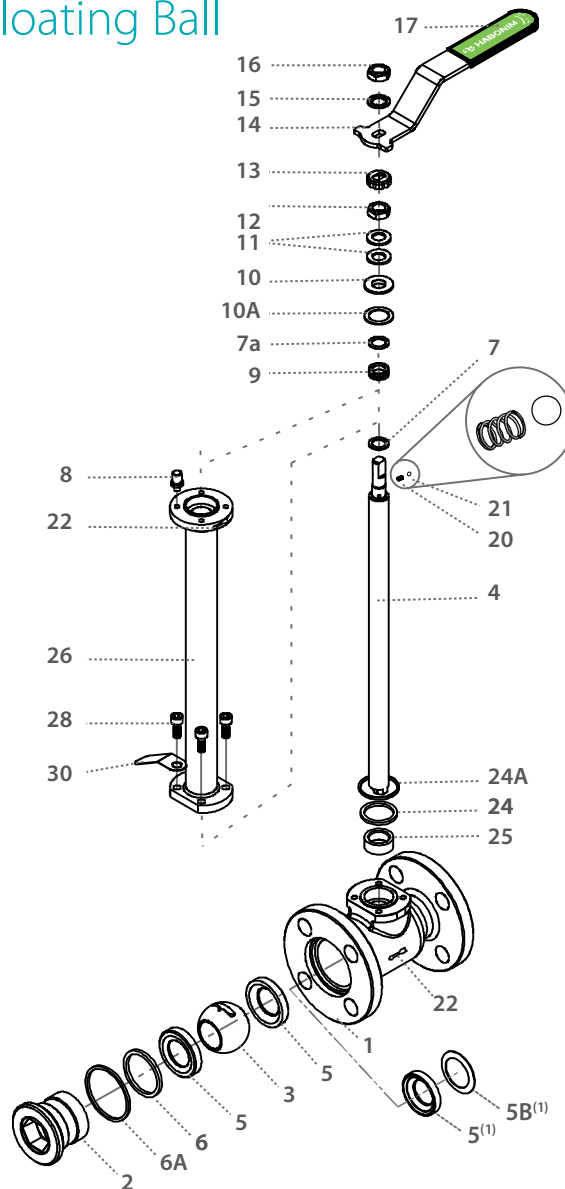
C78

1/2"-1" | DN15-DN25
CLASS 150/300/PN 40



Cryogenic Flanged Full Port Floating Ball

Components & materials



Item	Description	Material specifications	Qty.
1	Body	Acc. Ordering Code	1
2	Plug	Acc. Ordering Code	1
3	Ball	Acc. Ordering Code	1
4	Stem	Acc. Ordering Code	1
5*	Seat	Acc. Ordering Code	2
5B	Upstream seat spring	Inconel 718	1
6*	Inner seal	TFM	1
6A*	Outer seal	Acc. Ordering Code	1
7*	Stem thrust seal	PCTFE	1
7a*	Anti-abrasion ring	PCTFE	1
8	Stop pin	S. Steel	1
9*	Stem seal	TFM	1
10	Follower	S. Steel	1
10A	Slide bearing	S. Steel	1
11	Disc spring	S. Steel	2
12	Stem nut	S. Steel	1
13	Locking clip	S. Steel	1

Item	Description	Material specifications	Qty.
14	Handle	S. Steel	1
15	Serrated washer	S. Steel	1
16	Handle nut	S. Steel	1
17	Sleeve	PVC	1
20	Anti-static spring	S. Steel	1
21	Anti-static plunger	S. Steel	1
22	Flange	S. Steel	2
23	Tag (not shown)	S. Steel	1
24*	Bonnet inner seal	TFM	1
24A*	Bonnet outer seal	Acc. Ordering Code	1
25*	Stem bearing	PTFE	1
26	Bonnet	S. Steel	1
28	Bolt	S. Steel	4
30	Dog tag	S. Steel	1

* Repair kit components

⁽¹⁾ Optional Dynamic seat design

C73

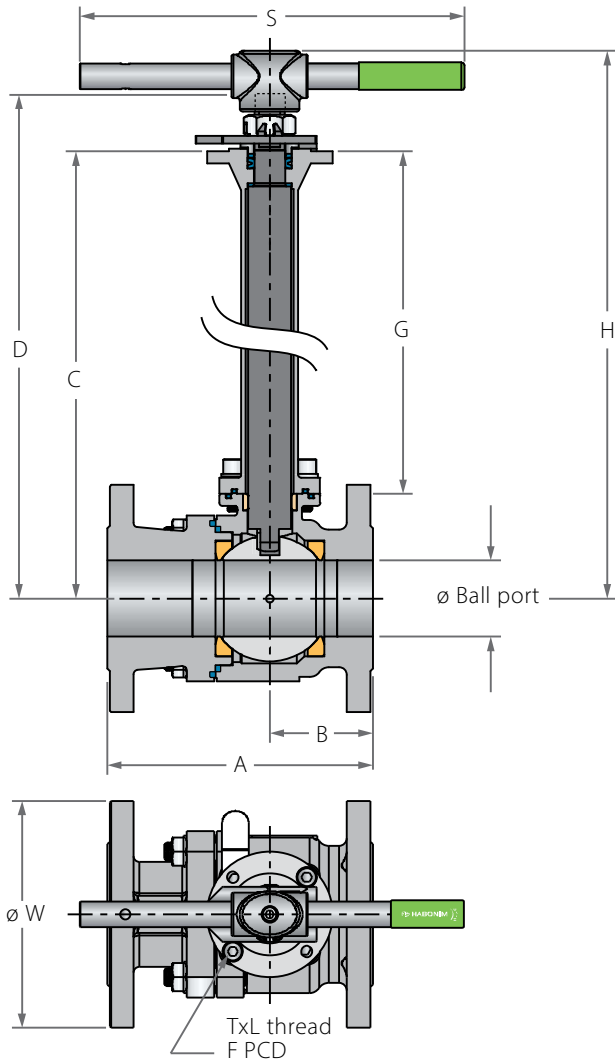
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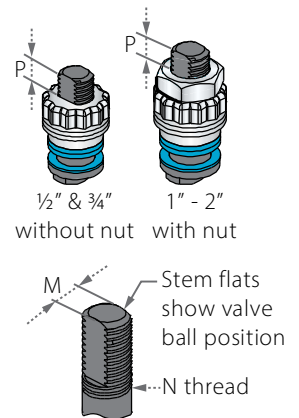
1½"-2" | DN40-DN50
CLASS 150/300/PN 40

Cryogenic Flanged Full Port Floating Ball

Valve dimensions



Preparation for actuation



Full Port	Unit	Ball port	A_73		A_74		A_78		B	Standard design				6.0" bonnet				S	W	M	N	P	F	TxL	Weight		
			F1	F4	C	D	G	H		C	D	G	H	Std.	6.0"	Kv											
DN40	mm	38.1	165	190.5	200	-	68	352.3	381.8	304	406.6	200.65	230.15	152.4	255	237	127	8.71	16" UNF	8.5 (F05)	50	M6X8	8.5	7.93	214		
1½"	inch	1.5	6.5	7.5	7.87	-	2.68	13.87	15	11.97	16.01	7.9	9.06	6	10.04	9.33	5	0.34		0.33	1.97	M6X8	18.73	17.48	250		
DN50	mm	51	178	216	230	150	69	397.5	439.1	327.5	430.35	222.4	264	152.4	255.25	400	152	13.9	M20x2.5	13.5 (F07)	70	M8X8	16	14.5	410		
2"	inch	2.01	7.01	8.5	9.06	5.91	2.72	15.65	17.29	12.89	16.94	8.76	10.39	6	10.05	15.75	5.98	0.55		0.53	2.76	M8X8	35.2	31.9	480		

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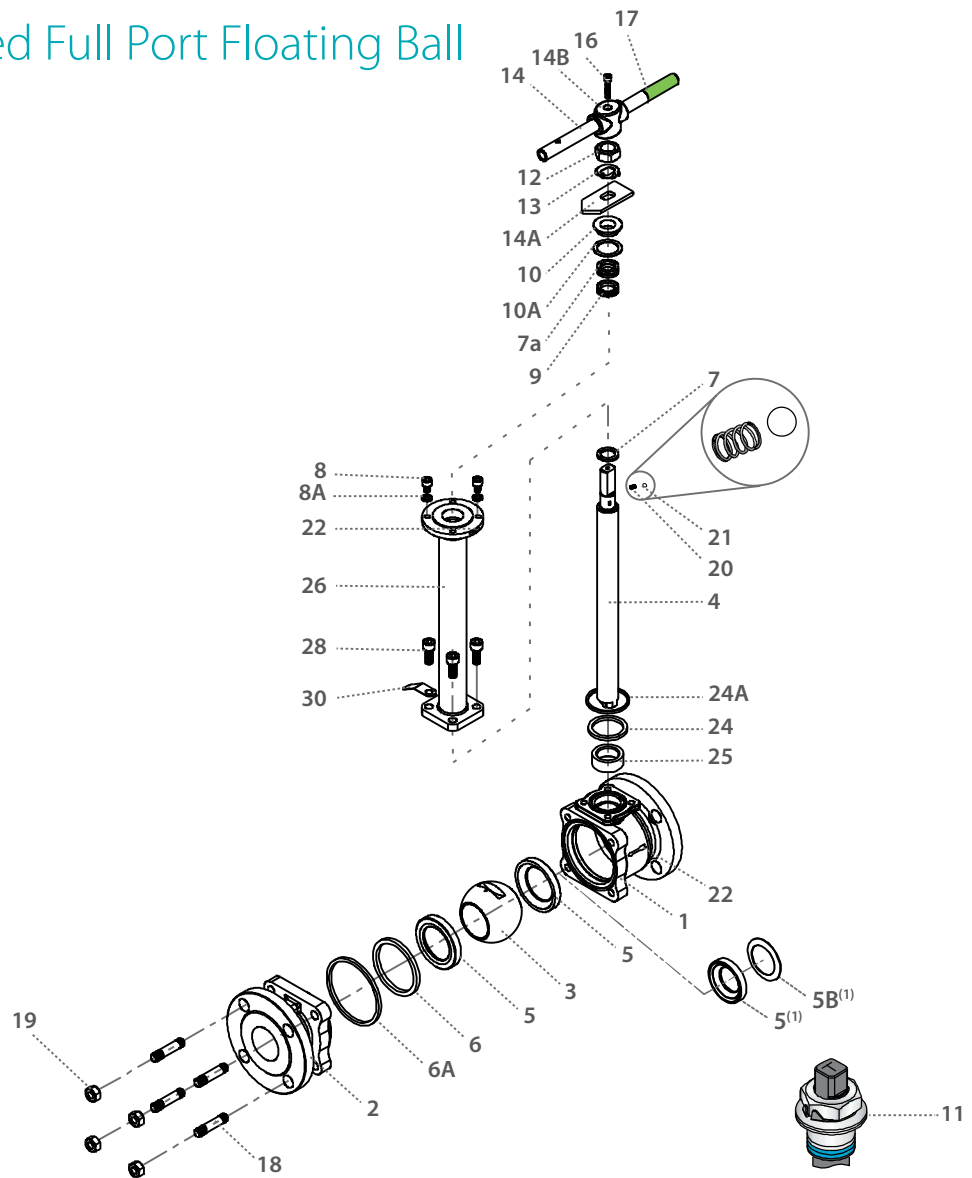
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1½"-2" | DN40-DN50
CLASS 150/300/PN 40

Cryogenic Flanged Full Port Floating Ball

Components & materials



Item	Description	Material specifications	Qty.
1	Body	Acc. Ordering Code	1
2	End	Acc. Ordering Code	1
3	Ball	Acc. Ordering Code	1
4	Stem	Acc. Ordering Code	1
5*	Seat	Acc. Ordering Code	2
5B	Upstream seat spring	Inconel 718	1
6*	Inner seal	TFM	1
6A*	Outer seal	Acc. Ordering Code	1
7*	Stem thrust seal	PCTFE	1
7a*	Anti-abrasion ring	PCTFE	1
8	Stop bolt	S. Steel	2
8A	Spring washer	S. Steel	2
9*	Stem seal	TFM, Graphite	1
10	Follower	S. Steel	1
10A	Slide bearing	S. Steel	1
11	Disc spring	S. Steel	2
12	Stem nut	S. Steel	1
13	Tab lock washer	S. Steel	1
14	Handle	S. Steel	1

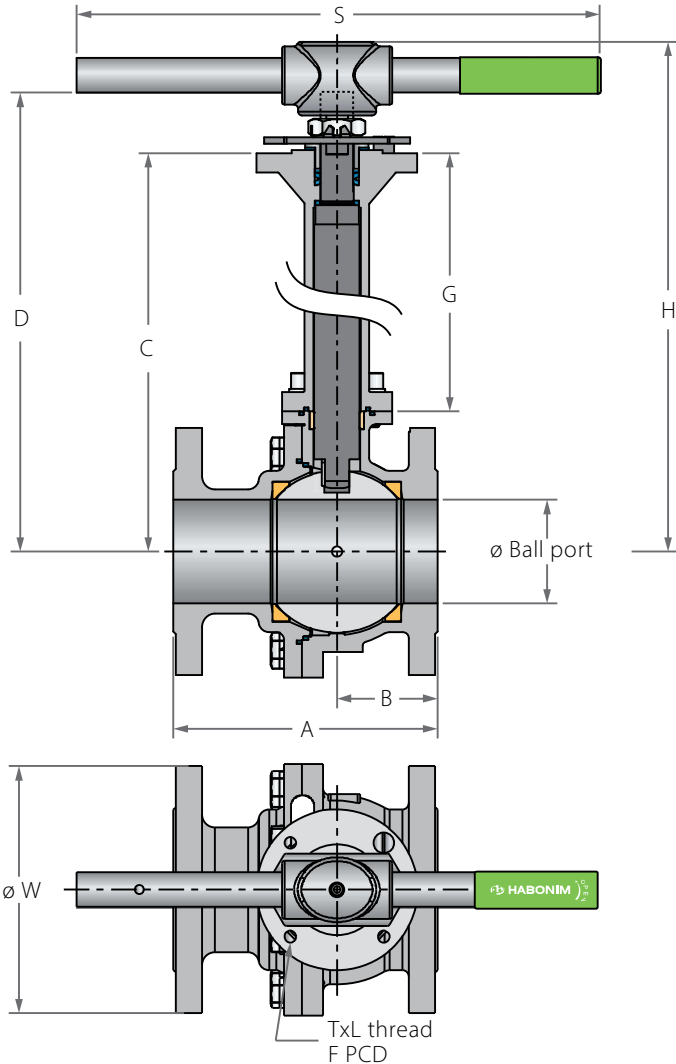
Item	Description	Material specifications	Qty.
14A	Stop plate	S. Steel	1
14B	Wrench head	S. Steel	1
16	Wrench bolt	S. Steel	1
17	Sleeve	PVC	1
18	Body bolt	S. Steel	4
19	Body Nut	EN3506-2 A4-80, A194 8M	4
20	Anti-static spring	S. Steel	1
21	Anti-static plunger	S. Steel	1
22	Arrow flow	S. Steel	2
23	Tag (not shown)	S. Steel	1
24*	Bonnet inner seal	TFM	1
24A*	Bonnet outer seal	Acc. Ordering Code	1
25*	Stem bearing	PTFE	1
26	Bonnet	S. Steel	1
28	Bolt	S. Steel	4
30	Dog tag	S. Steel	1

* Repair kit components

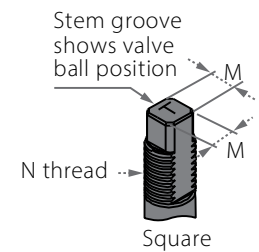
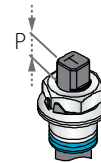
⁽¹⁾ Optional Dynamic seat design

Cryogenic Flanged Full Port Floating Ball

Valve dimensions



Preparation for actuation



Full Port	Unit	Ball port	A.73 A.74		A.77		B	Standard design				6.0" bonnet				S	W	M	M DD	N	P	F	TxL	Weight kg/lb		Kv	
			F1,F5	F4	C	D		G	H	C	D	G	H	Std.	6.0"									Cv			
DN80	mm	80	203	282	310	180	77.5	441.5	488.1	343.5	538.6	250.4	297	152.4	347.5	610	190.5	18.9	15.9	1"-14 UNS-2A	16.7	(F10)	102	M10X15	27	25	1111
3"	inch	3.15	7.99	11.1	12.2	7.09	3.05	17.38	19.22	13.52	21.2	9.86	11.69	6	13.68	24.02	7.5	0.74	0.63		0.66		4.02	M10X15	59.4	41.44	1300
DN100	mm	100	229	305	350	190	84.5	467.5	514.1	343.5	566.6	276.4	323	152.4	375.5	610	230	18.9	15.9	1"-14 UNS-2A	16.7	(F10)	102	M10X15	44	42	2051
4"	inch	3.94	9.02	12.01	13.78	7.48	3.33	18.41	20.24	13.52	22.31	10.88	12.72	6	14.78	24.02	9.06	0.74	0.63		0.66		4.02	M10X15	67.22	64.58	2379
DN150	mm	150	394	404	350	OPT	163.5	564	633.5	385	-	331.4	400.9	152.4	-	-	279.4	28.45	23.75	1"-12 UNF-2A	26.2	(F12)	125	M12X15	97	93.5	4615
6"	inch	5.91	15.51	15.91	13.78	OPT	6.44	22.2	24.94	15.16	-	13.05	15.78	6	-	-	11	1.12	0.94		1.03		4.92	M12X15	154.28	145.24	5400
DN200	mm	200	457	502	-	-	242.6	627	627	385	-	394.4	463.9	152.4	-	-	343	35.9	35.9	2" UN-2A	40	(F14)	140	M16X20	210	203	7949
8"	inch	7.87	17.99	19.76	-	-	9.55	24.69	24.69	15.16	-	15.53	18.26	6	-	-	13.5	1.41	1.41		1.57		5.51	M16X20	231.42	222.38	9300

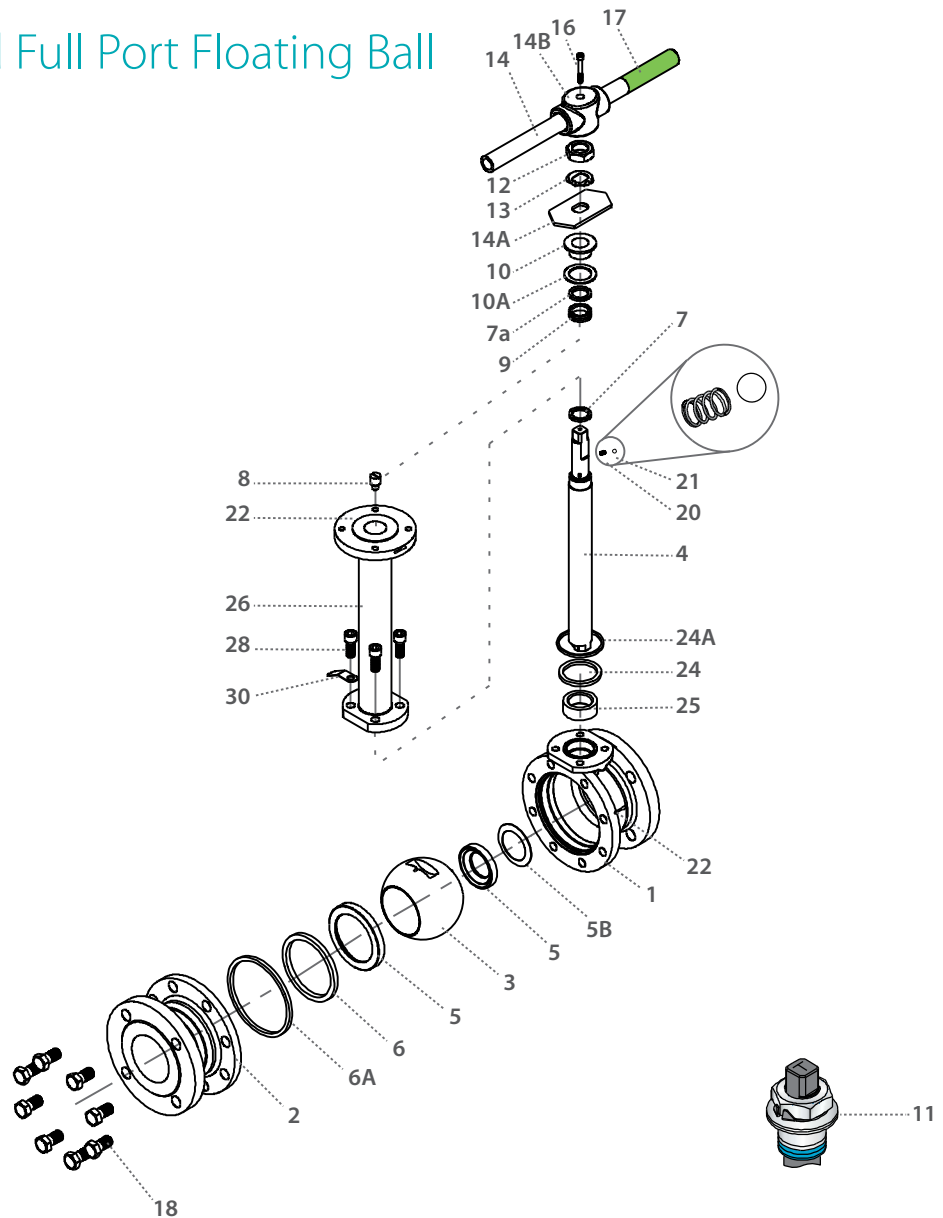
⁽¹⁾ Due to high valve torque, pipe handle cannot be used. A manual gear or automation means should be used to operate the valve.

⁽¹⁾ C77 up to 6"



Cryogenic Flanged Full Port Floating Ball

Components & materials



Item	Description	Material specifications	Qty.
1	Body	Acc. Ordering Code	1
2	End	Acc. Ordering Code	1
3	Ball	Acc. Ordering Code	1
4	Stem	Acc. Ordering Code	1
5*	Seat	Acc. Ordering Code	2
5B	Upstream seat spring	Inconel 718	1
6*	Inner seal	TFM	1
6A*	Outer seal	Acc. Ordering Code	1
7*	Stem thrust seal	PCTFE	1
7a*	Anti-abrasion ring	PCTFE	1
8	Stop pin	S. Steel	1
9*	Stem seal	TFM	1
10	Follower	S. Steel	1
10A	Slide bearing	S. Steel	1
11	Disc spring	S. Steel	2
12	Stem nut	S. Steel	1
13	Tab lock washer	S. Steel	1
14**	Handle	S. Steel	1
14A	Stop plate	S. Steel	1

Item	Description	Material specifications	Qty.
14B	Wrench head	S. Steel	1
16	Wrench bolt	S. Steel	1
17	Sleeve	PVC	1
18	Body bolt	S. Steel	8-10
20	Anti-static spring	S. Steel	2
21	Anti-static plunger	S. Steel	2
22	Arrowflow	S. Steel	2
23	Tag (not shown)	S. Steel	1
24*	Bonnet inner seal	TFM	1
24A*	Bonnet outer seal	Acc. Ordering Code	1
25*	Stem bearing	PTFE	1
26	Bonnet	S. Steel	1
28	Bolt	S. Steel	4
30	Dog tag	S. Steel	1

* Repair kit components

** Gear operator should be used for size 6" DN150 and above (handle components are not included)

⁽¹⁾ C77 up to 6"