

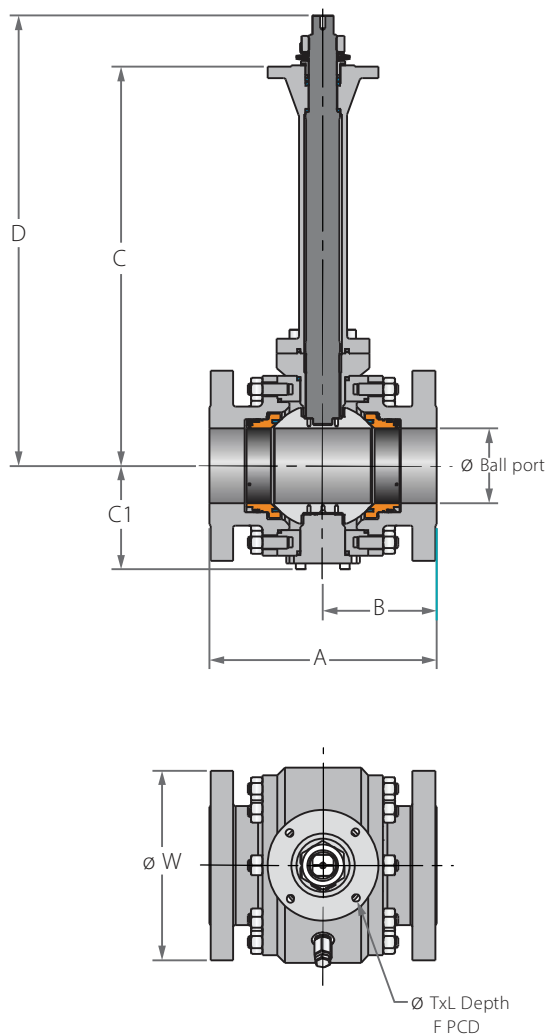
C93

C94

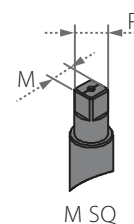
2"-6" | DN50-DN150 | CLASS 600/900

Cryogenic Trunnion Mounted Ball 3 Piece

Valve dimensions



Preparation for actuation

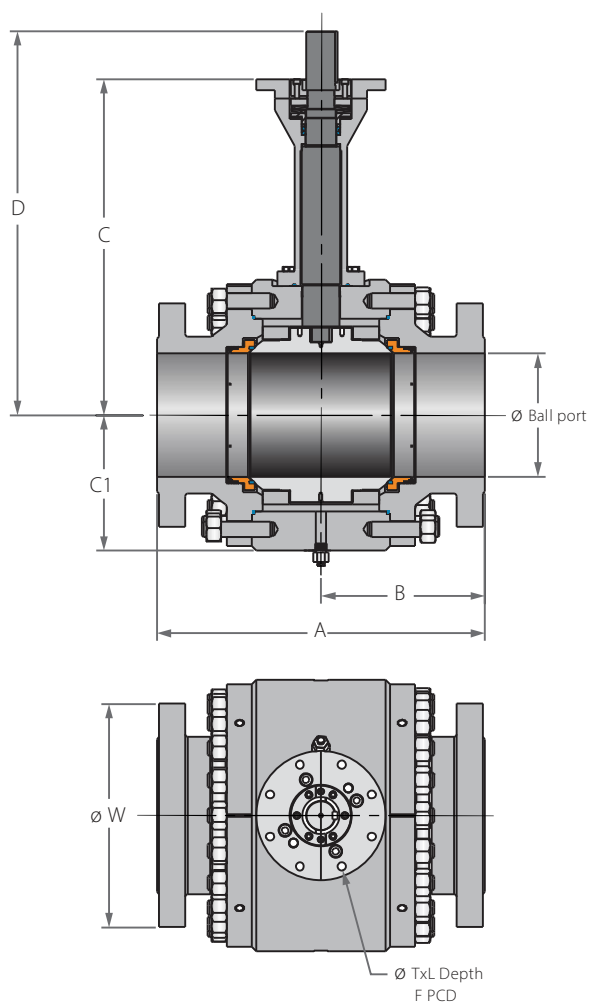


Std. port	Unit	Ball port	A		B		C		C1		D		W		M SQ	P SQ	F		TxL	Weight kg/lb		Kv / Cv	
			600	900	600	900	600	900	600	900	600	900	150	300						150	300	150	300
DN50	mm	49	292	368	146	184	500	459.5	119	263	547.5	507	165	215	18.9	22.7	(F10)	102	M10X15 (4 holes)	49	67	329	294
2"	inch	1.93	11.5	14.49	5.75	7.24	19.69	18.09	4.69	10.35	21.56	19.96	6.5	8.46	0.74	0.89		4.02		108	148	380	340
DN80	mm	74	356	381	178	190.5	550	502	160	152.7	617	569	210	240	28.45	35.2	(F12)	125	M12X15 (4 holes)	103	114	874	822
3"	inch	2.91	14.02	15	7.01	7.5	21.65	19.76	6.3	6.01	24.29	22.4	8.27	9.45	1.12	1.39		4.92		227	251	1010	950
DN100	mm	100	432	457	216	228.5	600	193	184	184	712.6	259	275	290	35.9	43.5	(F14)	140	M16X20 (4 holes)	166	186	1557	1471
4"	inch	3.94	17.01	17.99	8.5	9	23.62	7.6	7.24	7.24	28.06	10.2	10.83	11.42	1.41	1.71		5.51		366	410	1800	1700
DN150	mm	150	559	610	279.5	305	624.5	642.5	214.5	224	737.1	755.1	355	380	35.9	43.5	(F14)	140	M16X20 (4 holes)	342	418	3893	3823
6"	inch	5.91	22.01	24.02	11	12.01	24.59	25.3	8.44	8.82	29.02	29.73	13.98	14.96	1.41	1.71		5.51		754	922	4500	4420

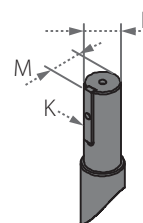


Cryogenic Trunnion Mounted Ball 3 Piece

Valve dimensions



Preparation for actuation



Std. port	Unit	Ball port	A		B		C		C1		D		W		P	M	K	F		TxL	Weight kg/lb		Kv / Cv	
			600	900	600	900	600	900	600	900	600	900	600	900							600	900	600	900
DN250	mm	201.00	660.00	737.00	330.00	368.50	696.00	696.00	263.00	263.00	774.00	774.00	420.00	470.00	60.00	63.50	14.00	(F25)	254.00	18x25	577	836	7742	7344
8"	inch	7.91	25.98	29.02	12.99	14.51	27.40	27.40	10.35	10.35	30.47	30.47	16.54	18.50	2.36	2.50	0.55		10.00	(8 holes)	1272	1843	8950	8490
DN100	mm	252.00	787.00	838.00	393.50	419.00	739.00	757.00	310.00	326.00	817.00	835.00	510.00	545.00	60.00	63.50	14.00	(F25)	254.00	18x35	931	1301	12543	12110
10"	inch	9.92	30.98	32.99	15.49	16.50	29.09	29.80	12.20	12.83	32.17	32.87	20.08	21.46	2.36	2.50	0.55		10.00	(8 holes)	2052	2868	14500	14000
DN300	mm	303.00	838.00	965.00	419.00	482.50	800.00	788.00	344.00	361.00	915.00	903.00	560.00	610.00	72.00	76.50	20.00	(F25)	254.00	18x35	1126	1576	19809	18598
12"	inch	11.93	32.99	37.99	16.50	19.00	31.50	31.02	13.54	14.21	36.02	35.55	22.05	24.02	2.83	3.01	0.79		10.00	(8 holes)	2482	3474	22900	21500

C91

C92

C93

C94

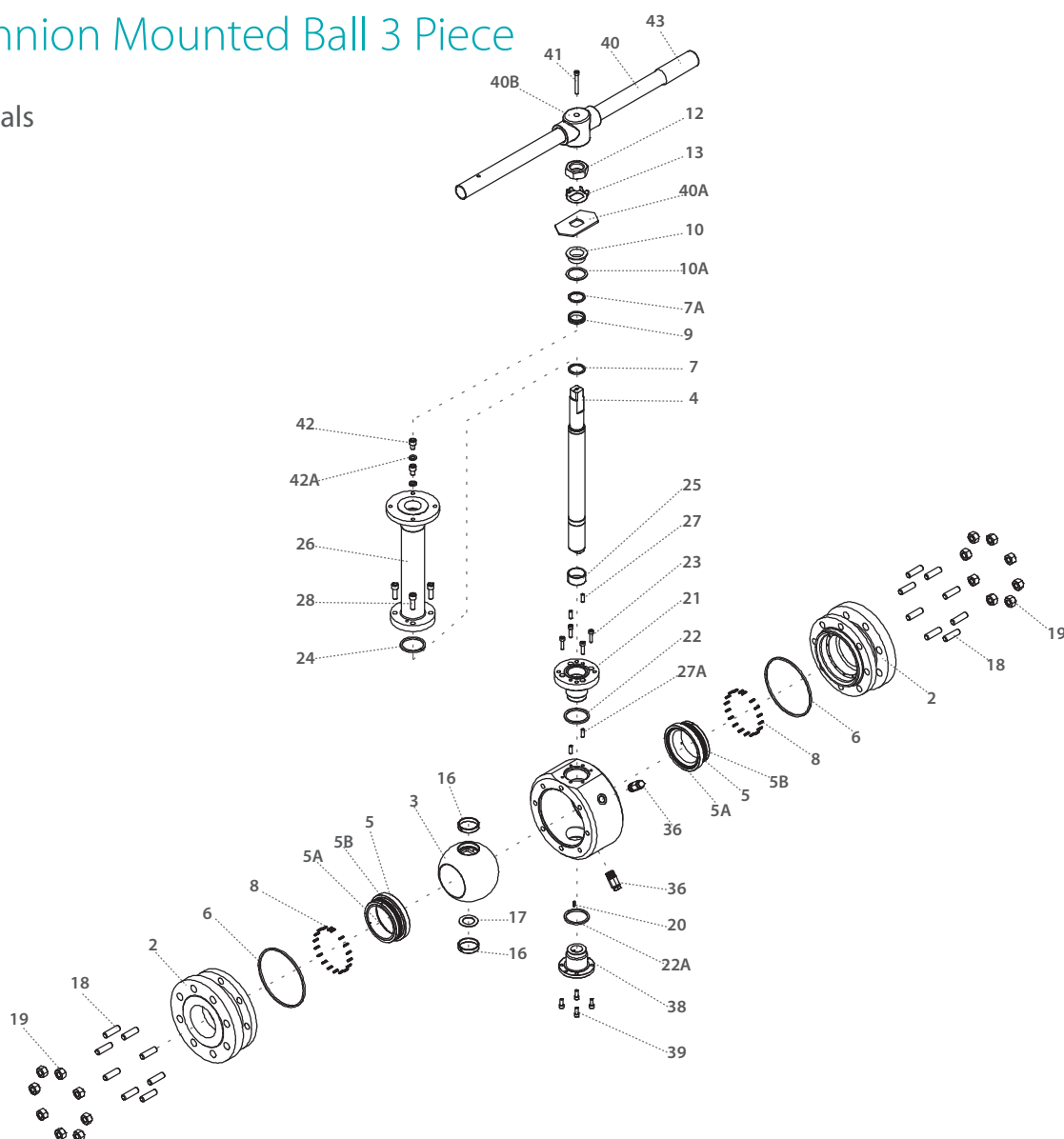
C95

C96

2"-6"

Cryogenic Trunnion Mounted Ball 3 Piece

Components & materials



Item	Description	Material Spec. ASTM	Qty.
1	Body	Acc. Ordering Code	1
2	End	Acc. Ordering Code	2
3	Ball	Acc. Ordering Code	1
4	Stem	Acc. Ordering Code	1
5*	Seat	Acc. Ordering Code	2
5A*	Seat insert	Acc. Ordering Code	2
5B*	Seat seal	PTFE+Elgiloy, Graphite	2
6*	Body seal	Graphite	2
7*	Stem thrust seal	PCTFE	1
7A*	Anti-abrasion ring	PCTFE	1
8	Seat spring	Inconel 750	20-32
9*	Stem seal	HermetiX TFM	1
10	Follower	S. Steel	1
10A*	Slide bearing	S. Steel	1
12	Stem nut	S. Steel	1
13	Tab lock washer	S. Steel	1
16	Ball Bearing	PMT 316	2
17	Ball Thrust Washer	PMT 316	2
18	Body Stud	ASTM A320-B8M	8-40
19	Body Nut	A194 8M	8-40
20	Anti-static spring	S. Steel	1

Item	Description	Material Spec. ASTM	Qty.
21 ⁽¹⁾	Gland Plate	A479 316/ 316L	1
22 ^{(1)*}	Gland Plate Seal	Graphite	1
22A*	Outer trunnion seal	Graphite	1
23 ⁽¹⁾	Gland Plate Bolts	ASTM A320-B8M	6-8
24*	Bonnet seal	Graphite	1
25	Stem bearing	PMT 316	1
26	Bonnet	S. Steel	1
27	Bonnet Pins	S. Steel	2
27A ⁽¹⁾	Gland Pins	S. Steel	2
28	Bonnet Bolts	ASTM A320-B8M	4-8
36	Plug drain/ vent valve	S. Steel	2
37	Tag (not shown)	S. Steel	1
38	Outer trunnion	A479 316	1
39	Outer trunnion bolts	ASTM A320-B8M	4-8
40	Pipe handle	S. Steel	1
40A	Stop plate	S. Steel	1
40B	Wrench head	S. Steel	1
41	Wrench head bolt	S. Steel	1
42	Stop bolt	S. Steel	2
42A	Spring washer	S. Steel	2
43	Sleeve	PCV	1

C91

C92

C93

C94

C95

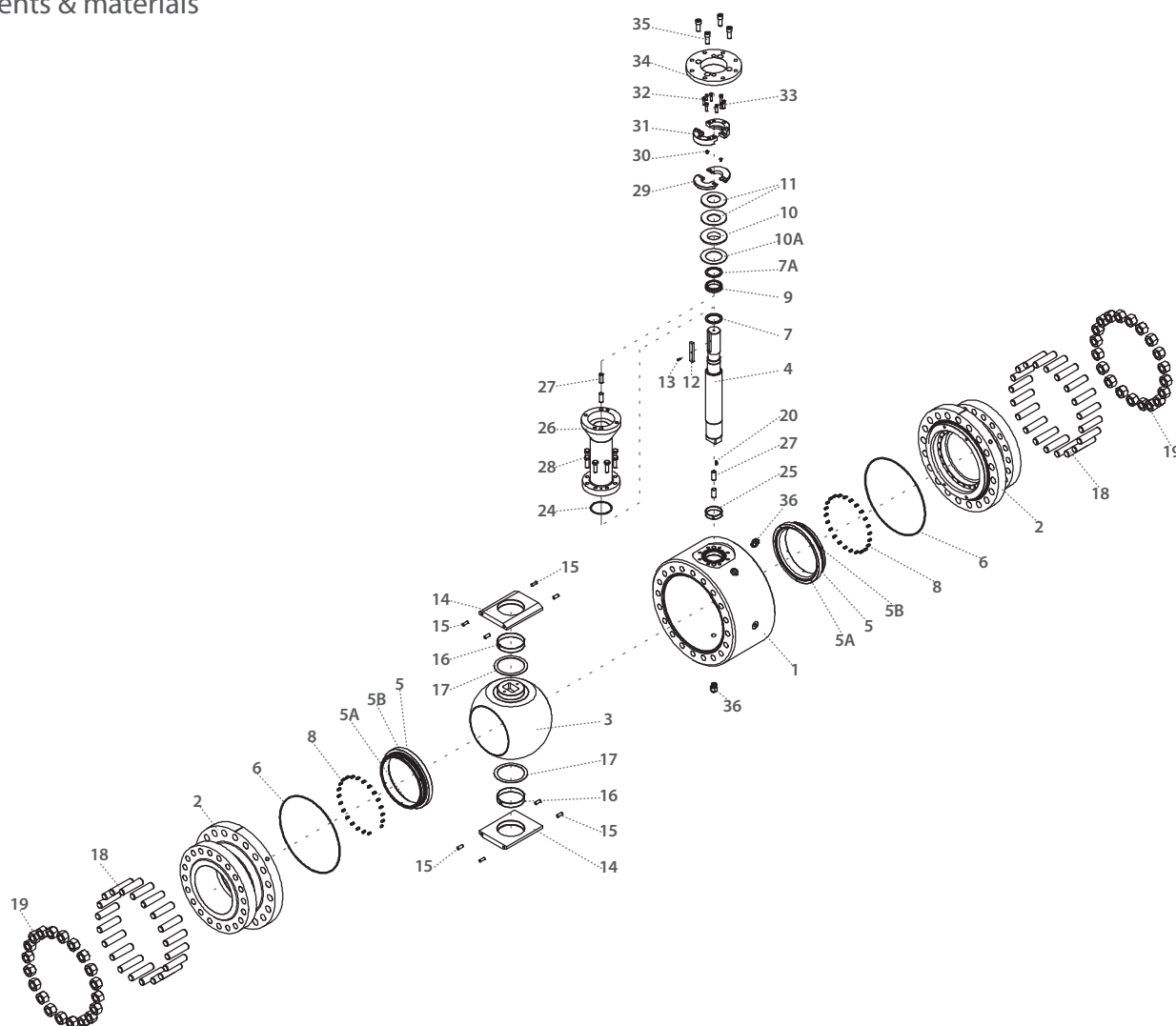
C96

8"-12"



Cryogenic Trunnion Mounted Ball 3 Piece

Components & materials



Item	Description	Material Spec. ASTM	Qty.
1	Body	Acc. Ordering Code	1
2	End	Acc. Ordering Code	2
3	Ball	Acc. Ordering Code	1
4	Stem	Acc. Ordering Code	1
5*	Seat	Acc. Ordering Code	2
5A*	Seat insert	Acc. Ordering Code	2
5B*	Seat seal	PTFE+Elgiloy, Graphite	2
6*	Body seal	Graphite	2
7*	Stem thrust seal	PCTFE	1
7A*	Anti-abrasion ring	PCTFE	1
8	Seat spring	Inconel 750	20-44
9*	Stem seal	HermetiX TFM	1
10	Follower	S. Steel	1
10A*	Slide bearing	S. Steel	1
11	Disc spring	S. Steel	2
12	Stem key	S. Steel	1
13	Stem key bolt	S. Steel	1
14	Trunnion plate	A479 316	2
15	Trunnion plate Pin	S. Steel	8

Item	Description	Material Spec. ASTM	Qty.
16	Ball Bearing	PMT 316	2
17	Ball Thrust Washer	PMT 316	2
18	Body Stud	ASTM A320-B8M	16-40
19	Body Nut	A194 8M	16-40
20	Anti-static spring	S. Steel	1
24*	Bonnet seal	Graphite	1
25	Stem bearing	PMT 316	1
26	Bonnet	S. Steel	1
27	Bonnet Pins	S. Steel	4-6
28	Bonnet Bolts	ASTM A320-B8M	4-8
29	Bot Follower	A479 316	2
30	Bot Follower bolt	ASTM A320-B8M	2
31	Top Follower	A479 316	2
32	Top Follower drive bolt	ASTM A320-B8M	6-8
33	Top Follower bolt	ASTM A320-B8M	2
34	Iso Plate	A479 316	1
35	Iso Plate bolt	ASTM A320-B8M	4-8
36	Plug drain/ vent valve	S. Steel	2
37	Tag (not shown)	S.Steel	2