

Item 305D-CRYOGENIC 3-PC Cryogenic Ball Valve

CLASS 600/ 900/ 2160WOG/ PN 150

SIZE: 1/2"-4"



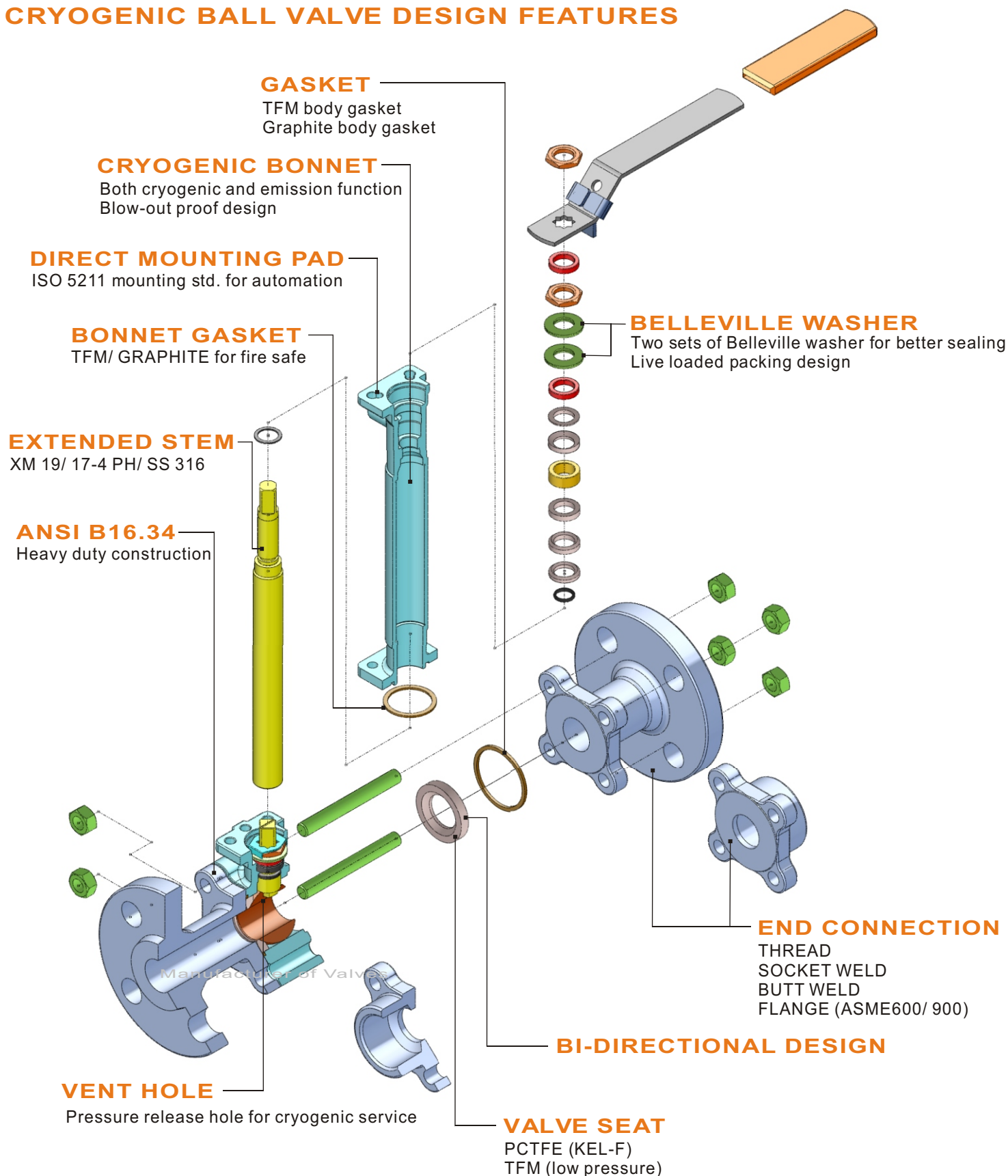
SPECIFICATION

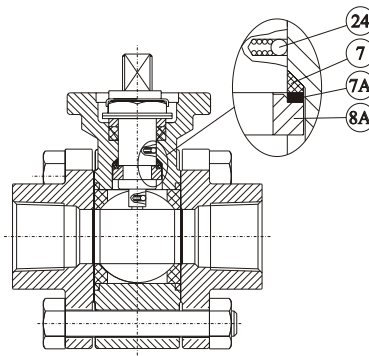
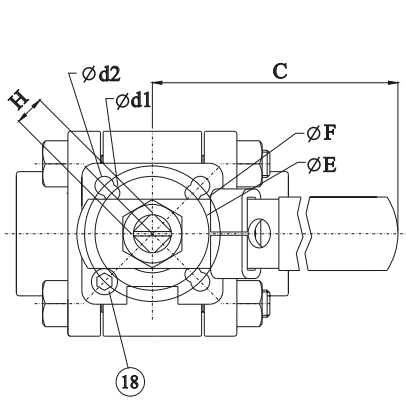
- * MSS SP-134, 2006 cryogenic standard
- * Suitable for -196°C working condition
- * Body & end caps quality investment casting
- * Valve construction & thickness follow ANSIB16.34
- * Double sealing sets on valve & extention
- * Class 900 construction design
- * Bi-directional design
- * ISO 5211 direct mounting pad
- * Adjustable stem packing
- * Live loaded & blow-out proof stem design
- * End type: Thread/ SW/ BW/ Flange

OPTION

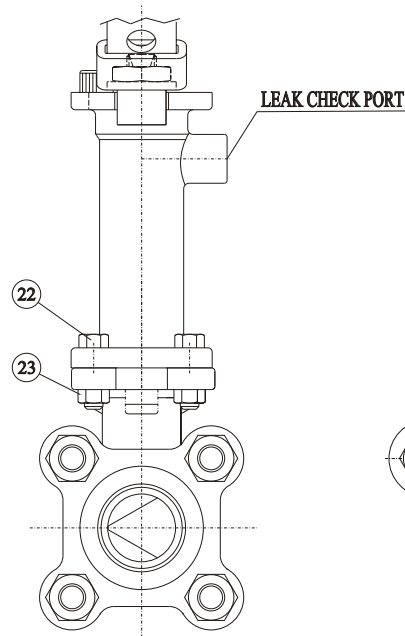
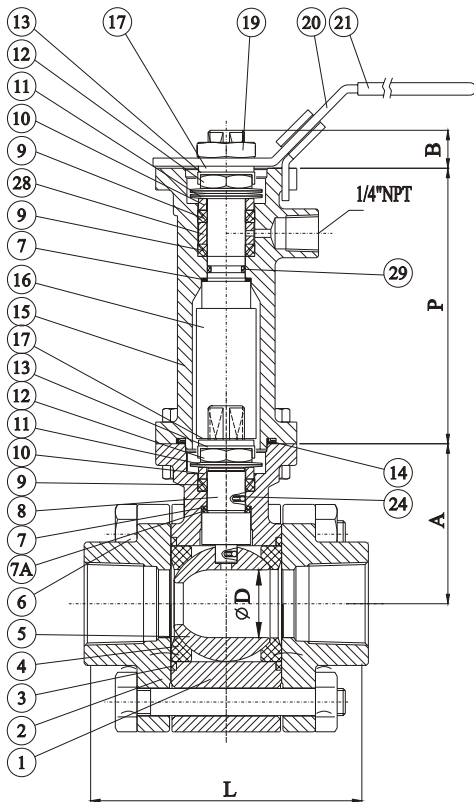
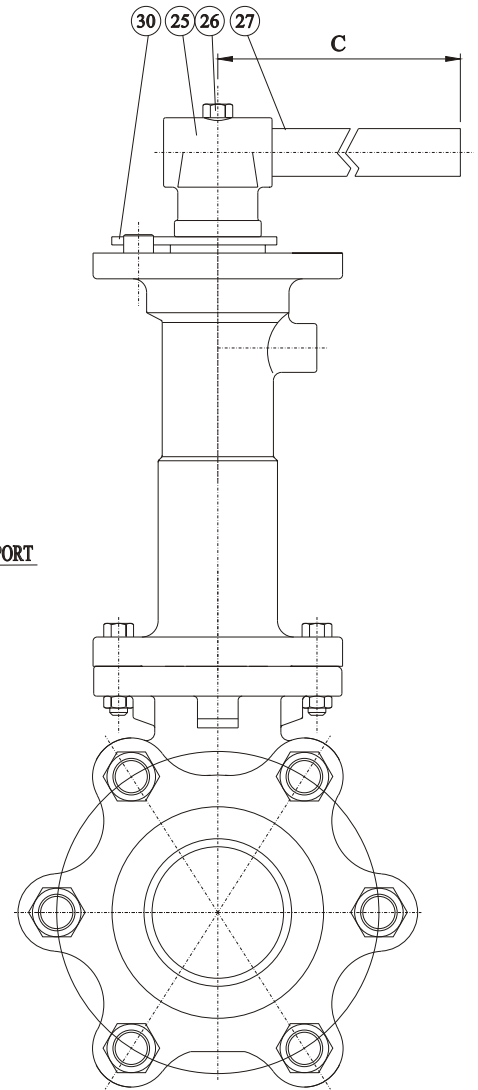
- * Fire safe design
- * Anti-static device
- * V-ball for flow control
- * Automation application
- * Special Alloy on body/ end/ ball/ stem

CRYOGENIC BALL VALVE DESIGN FEATURES



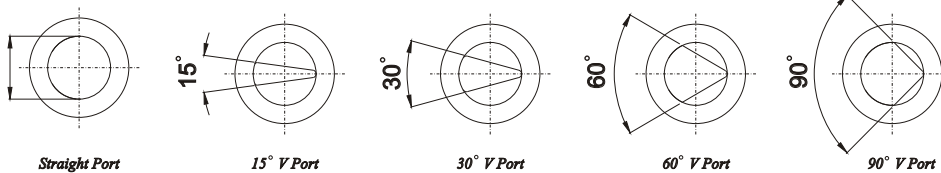
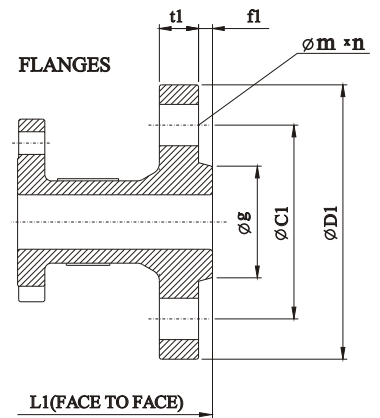
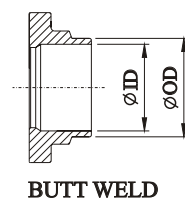
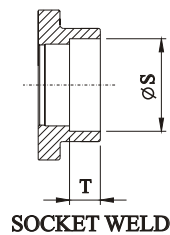


SIZE: 1/4"-3/4"



SIZE: 1/4"-1 1/2"

SIZE: 2"



MATERIALS LIST

ITEM	PART NAME	MATERIALS	ITEM	PART NAME	MATERIALS
1	BODY	CF8M	15	EXTENSION BODY	SS 304
2	END	CF8M	16	EXTENSION STEM	SS 316/ XM 19/ 17-4
3	GASKET (BODY)	TFM/ GRAPHITE	17	SPACE WASHER	SS 304
4	BALL	SS 316	18	STOP PIN	SS 304
5	BALL SEAT	PCTFE	19	HANDLE NUT	SS 304
6	BOLTS	SS 304	20	HANDLE	SS 304
7	THRUST WASHER	TFM	21	HANDLE COVER	PLASTISOL
7A	THRUST WASHER	PEEK	22	EXTENSION BOLTS	SS 304
8	STEM	SS 316/ XM 19/ 17-4	23	NUT	SS 304
8A	HALF SPLIT RING	SS 316	24	ANTI-STATIC	SS 316
9	STEM PACKING	TFM	25	LEVER HEAD	CF 8
10	GLAND WASHER	SS 304	26	SET BOLT	SS 304
11	DISK WASHER	SS 301	27	LEVER	STEEL PIPE
12	STEM NUT	SS 304	28	BUSH	SS 304
13	NUT STOP	SS 304	29	O-RING	VITON
14	EXTENSION GASKET	TFM/ GRAPHITE	30	PLATER	SS 304

DIMENSIONS (mm)

SIZE	A	B	C	D	d1	d2	E	F	H	P	L	SW		BW(40#)		BW(80#)	
												S	T	OD	ID	OD	ID
1/4"	46	9.5	130	11	6.0	6.0	36	42	9	101.6	66.5	14.2	11.1	14.0	9.2	14.0	7.5
3/8"	46	9.5	130	12.5	6.0	6.0	36	42	9	101.6	66.5	17.5	11.1	17.0	12.7	17.0	10.8
1/2"	48	9.5	130	15	6.0	6.0	36	42	9	101.6	70	21.8	12.7	21.3	15.9	21.3	13.8
3/4"	53	12	155	20	6.0	6.0	42	50	11	101.6	92	27.1	14.3	26.7	20.8	26.7	18.9
1"	59	12	155	25	6.0	7.0	42	50	11	101.6	105	33.8	15.9	33.3	26.6	33.3	24.3
1-1/4"	62	14.5	205	32	7.0	9.2	50	70	14	152.4	111	42.5	17.5	42.2	35.1	42.2	32.5
1-1/2"	70	14.5	205	38	7.0	9.2	50	70	14	152.4	124	48.7	18.3	48.5	40.8	48.5	38.1
2"	90	19	300	50	9.2	11.4	70	102	17	152.4	150	61.1	21.3	60.5	52.4	60.5	49.3

FLANGE CLASS 600/ 900									
SIZE	Class	L1	g	C1	D1	t1	m	n	f1
1/2"	#600	165	35	66.5	95	14.3	15.9	4	6.4
	#900	216	35	82.6	120	22.3	22.2	4	6.4
3/4"	#600	190	43	82.6	117	15.9	19.1	4	6.4
	#900	229	43	88.9	130	25.4	22.2	4	6.4
1"	#600	216	51	88.9	124	17.5	19.1	4	6.4
	#900	254	51	101.6	149	28.6	25.4	4	6.4
1-1/4"	#600	229	64	98.4	133	20.6	19.1	4	6.4
	#900	279	64	111.3	159	28.6	25.4	4	6.4
1-1/2"	#600	241	73	114.3	155	22.4	22.2	4	6.4
	#900	305	73	124.0	178	31.8	28.6	4	6.4
2"	#600	292	93	127.0	165	25.4	19.1	8	6.4
	#900	368	93	165.1	216	38.1	25.4	8	6.4

PRESSURE/ TEMPERATURE CHART

