



ANSI CLASS 150														
SIZE	A	B	ØC	ØD	ØE	ØF	G	H	J	K	L	M	ØN	WEIGHT
in														lbs [kg]
10	21.00 [568.6]	9.62 [244.4]	12.75 [323.9]	16.00 [406.4]	23.50 [597.0]	10.00 [254.0]	16.47 [420.6]	35.45 [900.4]	45.75 [1162.1]	10.00 [254.0]	-	-	-	1591 [721.7]
12	24.00 [609.6]	11.80 [299.7]	15.00 [381.0]	19.00 [482.6]	24.00 [609.6]	12.00 [304.8]	-	-	-	-	-	-	-	-
14	27.00 [685.8]	13.19 [335.0]	16.25 [412.8]	21.00 [533.4]	29.13 [740.7]	14.00 [355.6]	-	-	-	-	-	-	-	-
16	30.00 [762.0]	14.96 [379.9]	18.50 [469.9]	23.50 [596.9]	32.25 [819.2]	16.00 [406.4]	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-

  

ANSI CLASS 300														
SIZE	A	B	ØC	ØD	ØE	ØF	G	H	J	K	L	M	ØN	WEIGHT
in														lbs [kg]
10	22.38 [568.6]	10.65 [270.6]	12.75 [323.9]	17.50 [445.0]	23.50 [596.9]	10.00 [254.0]	16.47 [418.34]	35.45 [900.4]	45.70 [1160.8]	53.60 [1361.4]	51.00 [1295.4]	30.50 [774.7]	36.00 [914.4]	1640.3 [744.0]
12	25.53 [648.5]	12.3 [312.4]	15.00 [381.0]	20.50 [520.7]	26.00 [660.4]	12.00 [304.8]	18.7 [475.0]	35.30 [896.6]	49.55 [1258.6]	57.45 [1459.2]	54.85 [1393.2]	30.50 [774.7]	36.00 [914.4]	2392.5 [1085.2]
14	30.03 [762.8]	14.7 [373.4]	16.25 [412.8]	23.00 [584.2]	29.13 [739.9]	14.00 [355.6]	22.20 [563.9]	43.75 [1111.3]	56.90 [1445.3]	65.80 [1671.3]	62.80 [1595.1]	32.00 [818.8]	36.00 [914.4]	3450.9 [1565.3]
16	33.03 [838.8]	16.15 [410.2]	18.50 [469.9]	25.50 [647.7]	33.75 [857.3]	16.00 [406.4]	25.95 [659.1]	47.05 [1195.1]	58.30 [1480.8]	67.20 [1706.9]	64.20 [1630.7]	32.00 [818.8]	36.00 [914.4]	4500.4 [2041.3]
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-

  

ANSI CLASS 600														
SIZE	A	B	ØC	ØD	ØE	ØF	G	H	J	K	L	M	ØN	WEIGHT
in														lbs [kg]
10	31.02 [787.9]	12.46 [316.5]	12.75 [323.9]	20.00 [508.0]	23.50 [596.9]	10.00 [254.0]	19.12 [485.7]	39.42 [1001.3]	50.92 [1293.4]	59.82 [1519.4]	56.82 [1443.2]	32.00 [818.8]	36.00 [914.4]	2720.0 [1233.7]
12	33.02 [838.7]	13.93 [353.8]	15.00 [381.0]	22.00 [558.8]	28.00 [711.2]	12.00 [304.8]	21.46 [545.1]	42.23 [1072.6]	56.48 [1434.6]	65.38 [1660.7]	62.38 [1584.5]	32.00 [818.8]	36.00 [914.4]	3543.4 [1607.3]
14	35.00 [889.0]	15.79 [401.1]	16.25 [412.8]	24.00 [609.6]	31.50 [800.1]	14.0 [355.6]	25.69 [652.5]	45.38 [1152.6]	62.14 [1578.4]	72.34 [1837.4]	67.24 [1707.9]	32.90 [835.7]	36.00 [914.4]	7440.7 [3375.0]
16	39.00 [990.6]	16.92 [429.8]	18.50 [469.9]	27.00 [685.8]	34.63 [879.6]	16.00 [406.4]	26.59 [675.4]	49.42 [1255.3]	69.42 [1763.3]	80.02 [2032.5]	76.02 [1930.9]	34.40 [873.8]	36.00 [914.4]	7856.0 [3563.4]
18	43.06 [1093.7]	19.00 [482.6]	21.00 [533.4]	29.25 [743.0]	38.00 [965.2]	17.25 [438.2]	29.41 [747.0]	52.55 [1334.8]	72.55 [1842.8]	88.45 [2246.6]	-	-	36.00 [914.4]	10723.2 [4864.0]

PARTS LIST		
ITEM	DESCRIPTION	SPARES
1	BODY	
2	END PLATE	
3	BALL	
4	STEM	
5	PACKING FOLLOWER	
6	SEAT	*
7	STEM SEAL	*
8	BONNET EXTENSION	
9	PACKING FLANGE	
10	TRUNNION, SHAFT	
11	TRUNNION FLANGE	
12	BUSHING, STEM	*
13	BUSHING, TRUNNION	*
14	BEARING, THRUST	*
15	GASKET, BODY	*
16	GASKET, BONNET	*
17	GASKET, TRUNNION	*
18	PACKING WASHER	
19	PIN	*
20	STUD, FLANGE	
21	STUD, BONNET	
22	STUD, TRUNNION	
23	STUD, BODY	
24	NUT, FLANGE	
25	NUT, TRUNNION	
26	NUT, BONNET	
27	NUT, BODY	
28	MOUNTING BRACKET	
29	GEAR BOX	
30	HAND WHEEL	

NOTE:  
 1. VALVE WEIGHT IS WITHOUT GEAR BOX.  
 2. REFER TO "TBV™ CRYOGENIC BALL VALVE BROCHURE" FOR MATERIAL SPECIFICATIONS AND ADDITIONAL INFORMATION.  
 3. CONTACT TBV ENGINEERING FOR DIMENSIONAL INFORMATION NOT LISTED ABOVE.

SURFACE TREATMENT		DO NOT SCALE			VALVES & MEASUREMENT
DRAWN BY:	DATE:	CHECKED BY:	DATE:		
MATERIAL & HEAT TREAT:	DATE:	APPROVED BY:	DATE:	DIMENSIONAL DRAWING 10" - 18" CLASS 150, 300 & 600 21/80 CRYO BALL VALVE TBV	
ESTIMATED WEIGHT:	LBS INITIAL USE BM:	SHEET		1 of 1	REV: 06