

Class 300 Carbon Steel Flanged Ball Valves

Split-Body, Full-Bore Design • Blowout-Proof Stem • 316 SS Trim •
Multiple V-Ring Packing • Mounting Pad • Fire Safe • Vented Ball

740 PSI/51 Bar Non-Shock Cold Working Pressure ♦

CONFORMS TO ASME/ANSI B16.34, B16.5, MSS SP 72,
API 607 FOURTH EDITION, API 608, API 598,
MSS SP 25

MATERIAL LIST

PART	SPECIFICATION
1. ¹ Body and End Piece	Carbon Steel ASTM A 216 Type WCB
2. ¹ Ball (Vented)	Stainless Steel ASTM A 351 Type CF8M
3. Stem	Stainless Steel ASTM A 276 Type 316
4. Seat	Carbon Filled PTFE
5. Packing Set	Graphite and Braided Graphite
6. Pack Gland	Carbon Steel Plated
7. Gasket	304 SS/Graphite Spiral Wound
8. Body Stud	Carbon Steel A 193 Grade B7M
9. Heavy Hex Body Nut	Carbon Steel A 194 Grade 2HM
10. Belleville Washer	Stainless Steel

¹ Cast specifications shown. Smaller sizes may be manufactured from equivalent bar stock specifications.

DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions					
	A	B	C	D	E	
In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.
1/2	15 5.50	140 3.14	80 5.6	14 3.75	95 5.9	15 15
3/4	20 6.00	152 3.43	87 6.2	16 4.63	118 7.8	20 20
1	25 6.50	165 3.55	90 6.9	18 4.88	124 9.8	25 25
1 1/2	40 7.50	191 4.13	105 8.1	21 6.13	156 1.57	40 40
2	50 8.50	216 4.74	120 8.8	22 6.50	165 2.00	51 51
3	80 11.12	253 5.56	141 1.12	28 8.25	210 3.00	76 76
4	100 12.00	305 6.01	156 1.25	32 10.00	254 4.00	102 102
6	150 15.87	403 7.96	202 1.44	37 12.50	318 6.00	152 152
8	200 19.75	502 9.87	251 1.62	41 15.00	381 8.00	203 203
10	250 22.38	569 11.19	234 1.88	48 17.50	445 10.08	256 256
12	300 25.50	649 12.75	324 2.00	51 20.50	521 12.09	307 307

Size	Dimensions												F-535-CS-F-66-FS			
	G	H	J	K	L	N	O	*P	Q	R	Lbs.	Kg.				
In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.	In. mm.						
1/2	15 5.12	130 3.52	89 .34	9 1.00	25 .19	5 .250-20	—	—	—	—	4.85	123	2.00	51	7.00	3.18
3/4	20 6.10	155 4.13	105 .43	11 1.26	32 .31	8 .250-20	—	—	—	—	5.28	134	2.00	51	9.00	4.09
1	25 6.10	155 4.25	109 .45	11 1.26	32 .31	8 .312-18	—	—	—	—	5.69	145	1.75	44	11.00	5.00
1 1/2	40 9.06	230 4.97	126 .92	23 1.68	43 .47	12 .312-18	—	—	—	—	6.56	167	1.75	44	24.50	11.14
2	50 9.06	230 5.66	144 1.58	40 1.66	42 .63	16 .312-18	—	—	—	—	7.50	191	2.25	57	33.00	15.00
3	80 15.75	400 7.38	187 2.26	57 2.13	54 .78	20 .375-16	4.13	105 1.57	40 9.94	252 3.50	89 72.00	32.73				
4	100 15.75	400 8.09	205 2.10	53 2.13	54 .78	20 .437-14	4.13	105 1.57	40 10.69	272 4.00	102 116.00	52.73				
6	150 —	—	—	2.93	74 2.58	66 1.10	28 .437-14	4.96	126 2.36	60 14.38	365 4.00	102 228.00	103.64			
8	200 —	—	—	4.43	113 2.53	65 1.17	30 .500-13	4.96	126 2.36	60 18.06	459 6.46	154 352.00	160.00			
10	250 —	—	—	5.08	129 3.01	76 1.57	40 .625-11	5.90	150 2.75	70 20.43	514 8.66	220 560.00	254.53			
12	300 —	—	—	4.97	126 3.01	76 1.57	40 .625-11	5.90	150 2.75	70 23.44	595 9.45	240 765.00	347.73			

*Not drilled and tapped on 1/2"-2".

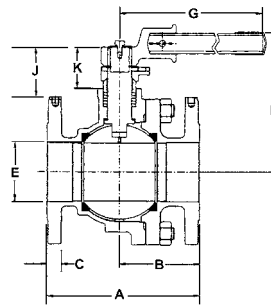
Note: Valves are static grounded by thrust washer.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 81.

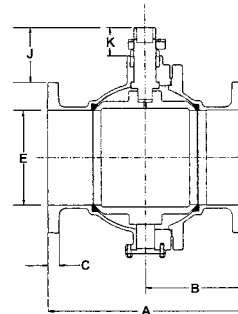
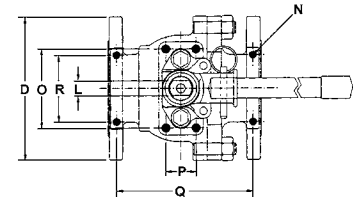


F-535-CS-F-66-FS

Carbon x Stainless
Flanged



1/2"-8"



10"-12"

