

# Class 150 Carbon Steel Flanged Ball Valves

Unibody Design • Blowout-Proof Stem • 316 SS Trim • Mounting Pad • Fire Safe • Vented Ball

**285 PSI/19.7 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

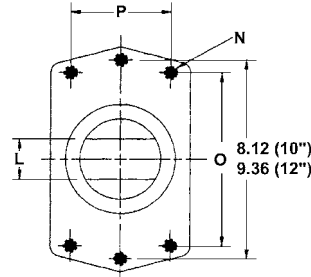
## MATERIAL LIST

PART	SPECIFICATION
1. Body and End Piece	Carbon Steel ASTM A 216 Type WCB
2. Ball (Vented)	Stainless Steel ASTM A 351 Type CF8M
3. Stem	Stainless Steel ASTM A 276 Type 316
4. Seat	Reinforced PTFE
5. Packing Set	Graphite and Braided Graphite
6. Pack Gland	Stainless Steel 304 SS
7. Pack Gland Nut	Carbon Steel Plated
8. O-Ring	Fluorocarbon Encapsulated
9. Gasket	304 SS/Graphite Spiral Wound

<sup>1</sup> Cast specifications shown. Smaller sizes may be manufactured from equivalent bar stock specifications.

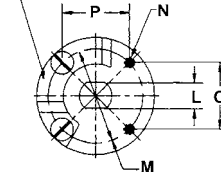
## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions												
	A		B		C		D		E		F		
In. mm.	In. mm.	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	4.25	108	2.13	54	.47	12	3.56	90	.50	13	.43	11
3/4	20	4.63	118	2.31	50	.47	12	3.94	100	.75	19	.63	16
1	25	5.00	127	2.50	54	.47	12	4.31	109	1.00	25	.81	21
1 1/2	40	6.50	165	3.25	83	.56	14	5.00	127	1.50	38	1.19	30
2	50	7.00	178	3.00	76	.62	16	6.00	132	2.00	51	1.50	38
3	80	8.00	203	4.00	102	.75	19	7.50	191	3.00	76	2.38	60
4	100	9.00	229	4.25	108	.94	24	9.00	229	4.00	102	3.00	76
6	150	10.50	267	5.25	133	1.00	25	11.00	279	6.00	152	4.38	111
8	200	11.50	297	5.50	140	1.13	29	13.50	343	8.00	203	5.68	144
10	250	13.00	330	6.50	165	1.19	30	16.00	406	10.00	254	7.50	190
12	300	14.00	356	7.38	187	1.25	32	19.00	483	12.00	305	9.50	241

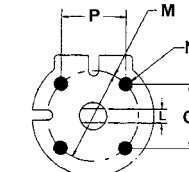


TOP FLANGE FOR  
10" & 12"

STOP PLATE  
REMOVABLE  
FOR ACTUATION



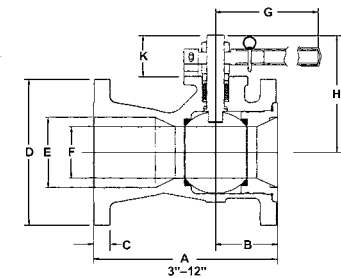
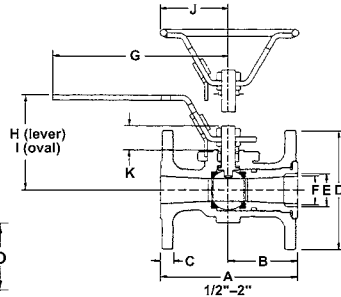
TOP FLANGE FOR  
3" THRU 8"



TOP FLANGE FOR  
1/2" THRU 2"



**F-510-CS-R-66-FS**  
Carbon x Stainless  
Flanged



Size	Dimensions												F-510-CS-R-66-FS									
	G	H	I	J	K	L	M	N	O	P	Lbs.	Kg.										
In. mm.	In. mm.	In. mm.	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	6.63	168	2.84	72	3.16	80	2.56	65	.59	15	.25	6	1.68	43	.250-20	1.19	30	1.19	30	3.00	1.36
3/4	20	6.63	168	3.20	81	3.58	91	2.56	65	.76	19	.25	6	1.68	43	.250-20	1.19	30	1.19	30	5.00	2.27
1	25	6.63	168	3.45	88	3.83	97	2.56	65	.93	24	.31	8	1.68	43	.250-20	1.19	30	1.19	30	6.00	2.72
1 1/2	40	9.13	232	4.75	121	5.25	133	3.31	84	1.22	31	.56	14	2.06	52	.250-20	1.46	37	1.46	37	13.00	5.91
2	50	9.13	232	4.88	124	5.38	137	3.31	84	1.36	35	.56	14	2.06	52	.250-20	1.46	37	1.46	37	17.00	7.73
3	80	16.60	422	6.16	156	—	—	—	—	1.97	50	.68	17	3.00	76	.375-16	2.12	54	2.12	54	42.00	19.09
4	100	16.60	422	7.22	183	—	—	—	—	2.16	55	.68	17	3.00	76	.375-16	2.12	54	2.12	54	64.00	29.09
6	150	32.80	833	10.09	256	—	—	—	—	3.59	91	1.13	29	4.50	114	.500-13	3.18	81	3.18	81	126.00	57.27
8	200	—	—	—	—	—	—	—	—	3.43	87	1.13	29	4.50	114	.500-13	3.18	81	3.18	81	198.00	90.00
10	250	—	—	—	—	—	—	—	—	5.56	141	1.75	44	—	—	.625-11	7.24	184	3.66	93	296.00	134.55
12	300	—	—	—	—	—	—	—	—	5.63	143	2.00	31	—	—	.625-11	8.10	205	4.68	119	477.00	216.82

Note: Valves are static grounded by thrust washer.

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