



WARREN MORRISON UK LTD



BALL VALVES MODEL 90

MODEL 90

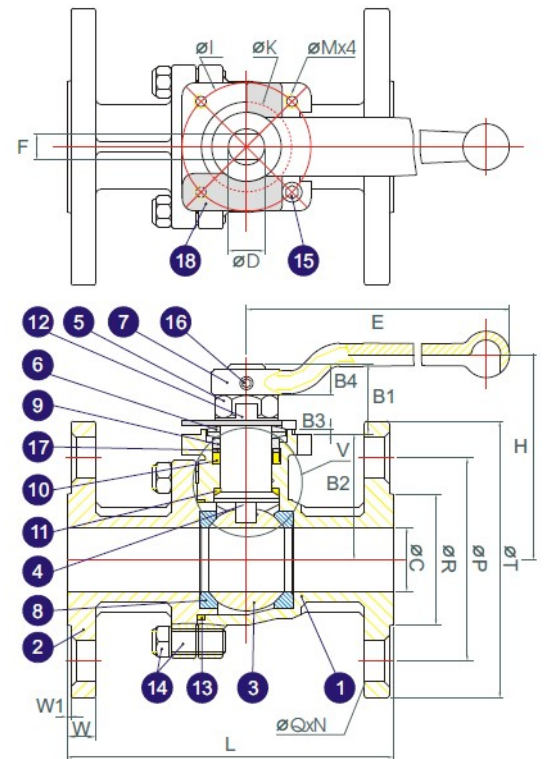
Flanged ball valve with 2-piece body and fire-safe design. Self-adjusting live-loaded stem packing with blow-out proof stem. Designed in accordance with API 6D & API 607.

- Size range : 1 /2" to 6"
- Bore type : Reduced & Full
- Body material : CS (WCB) or SS (CF8M).
- Ball material : Stainless steel
- Seats: PTFE
- Pressure rating : ANSI 150 & ANSI 300 class
- End connections : Flanged ANSI 150 & ANSI 300
- Actuator mounting pad : Available to ISO 5211



No.	PART	MATERIAL	QTY
1	Body	CF8M/A-351 (SS) WCB/A-216 (CS)	1
2	Cap	CF8M/A-351 (SS) WCB/A-216 (CS)	1
3	Ball	SS316	1
4	Stem	SS316	1
5	Stem Nut	SS304 / A276	1
6	Belleville Washer	SS301	2
7	Handle	SS304 / A276	1
8	Seat	PTFE	2
9	Gland	SS304 / A276	1
10	Stem Packing	GRAPHITE	1
11	Stem Seal	RPTFE	1
12	Lock Saddle	SS304 / A276	1
13	Joint Gasket	Spiral Wound SS 316 With GRAPHITE	1
14	Bolt Stud & Nut	SS304 / A276	**
15	Stop Pin	SS304 / A276	1
16	Handle Nut	SS304 / A276	1
17	Bushing	25% Glass Fiber Filled PTFE	1
18	Locking plate	SS304 / A276	1
19	Anti-static device	SS304	2

** 1/2" ~ 2" = 4 pcs, 1 1/2" ~ 4" = 8 pcs.



Dimensions:

Size	Size (mm)	Length A150 / A300	Bore Dia	Stem Square	Handle Height	Handle Length	Flange OD A150 / A300	Flange PCD A150 / A300	Flange # of Holes	Weight Kgs
1/2"	15	108.3 / 139.7	15	11.0	82.7 / 85.7	165	88.9 / 95.3	60.5 / 66.5	4	1.81 / 2.3
3/4"	20	117.3 / 152.4	20	11.0	87.2 / 100.5	165	98.6 / 117.3	69.9 / 82.6	4	2.2 / 3.9
1"	25	127.1 / 165.1	25	11.0	96.8 / 101.5	165	108 / 124	79.2 / 88.9	4	2.91 / 5.1
1 1/2"	40	165.1 / 190.5	38	17.0	147.1	262	127 / 155.4	96.8 / 114.3	4	6.3 / 10
2"	50	178.3 / 215.9	50	17.0	154.6	262	152.4 / 165.1	120.7 / 127	4 / 8	9.2 / 12.56
2 1/2"	65	190 / 241.3	65	17.0	174	262	177.8 / 190.5	139.7 / 149.4	4 / 8	14.3 / 19.8
3"	80	203.5 / 282.4	80	22.0	178.7	318	190.5 / 209.6	152.4 / 168.2	4 / 8	19.6 / 27.5
4"	100	228.6 / 304.8	100	22.0	203.2	318	228.6 / 254	190.5 / 200.2	8	31 / 44.2
6"	150	393.7 / 403.2	150	22.0	276.7	750	279.4 / 317.5	241.3 / 269.7	8 / 12	75 / 90



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