



SERIES M602

3-WAY Ball Valve

INTRODUCTION

The Series M602 is a direct-mount trunnion valve designed to handle high-pressure applications involving viscous or particulate fluids. This 3-way valve supports mixing and diverting flow configurations, eliminating the need for multiple valves. The valve features bolts on the side flanges for easy seat changes and is available in both L and T port configurations, with a variety of seat materials to accommodate diverse requirements.

TECHNICAL SUMMARY

- ATEX
- Full Port with various Port Arrangements
- Trunnion Ball Design
- Blow-out Proof Stem Design
- Easy-to-Maintain Construction

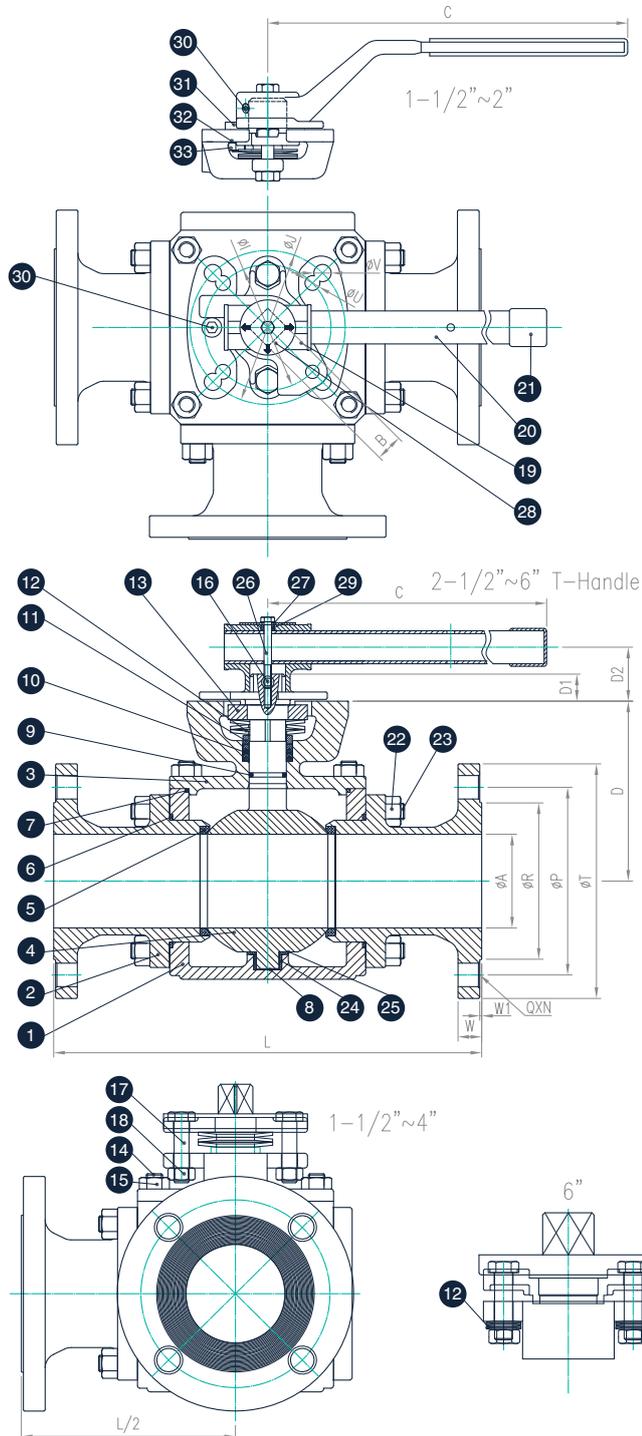
SIZE RANGE	Flanged Ends Class 150 for 1-1/2"~4" (DN40~DN150) Flanged Ends Class 300 for 1-1/2"~2" (DN40~DN150)
PRESSURE RATING	Class 150, 300, for Flanged Ends
VALVE TYPE	Full Bore
BODY & END CAP MATERIAL (ASTM)	CF8M, CF3M, CF8, CF3, WCB
SEAT MATERIAL	PTFE, RTFE, CTFE, TFM1600, MG1241, STFE
HANDLE TYPE	Cast, T-Bar, Economical Stem Extension
HANDLE MATERIAL	1-1/2"~2" Casting , 2-1/2"~6" T-Bar
OPTION	NACE MR-0175

STANDARD OF COMPLIANCE

MATERIAL CERTIFICATION	EN 10204-3.1
DESIGN	ASME B16.34 / EN12516
END CONNECTIONS	Flanged : ANSI B16.5
PRESSURE TESTING	PRESSURE TESTING : API 598
MARKING	MARKING : ISO 5209
CE APPROVAL	CE APPROVAL : 2014 / 68 / EU Module H
QUALITY ASSURANCE	QUALITY ASSURANCE : ISO 9001:2015

CONSTRUCTION-BILL OF MATERIAL

SERIES M602
1-1/2"~6"



NO.	Parts	Material	Qty
1	Body	CF8M / WCB	1
2	End cap	CF8M / WCB	3
3	Top Cover	CF8M / WCB	1
4	Ball & Stem	CF8M	1
5	Seat	RTFE	3
6	Joint Gasket	PTFE	3
7	Cover Joint Gasket	RTFE	1
8	Spring	SS316	1
9	O-Ring	VITON	1
10	Gland Packing	25% GLASS FIBER FILED+PTFE	1 set
11	Gland Bush	SS304	1
12	Belleville Washer	SS301	#
13	Gland Bush	CF8	1
14	Cover Bolt	SS304	*
15	Cover Nut	SS304	*
16	Handle Screw	SS304	1
17	Gland Bolt	SS304	2
18	Gland Nut	SS304	2
19	Handle-A	SS304 / Carbon Steel	1
20	Handle-B	SS304 / Carbon Steel	1
21	Handle Cover	VINYL	1
22	Bolt Nut	SS304	&
23	Bolt	SS304	&
24	Trunnion Bearing	Peek	1
25	Gasket	50%SS+PTFE	1
26	Handle Bolt	SS304	1
27	Washer	SS304	1
28	Position Indication	SS304	1
29	Handle Bush	SS304	1
30	Handle Screw	SS304	1
31	Stop Pin	SS304	1
32	Washer	SS304	1
33	Bolt Nut	SS304	1

* For 1-1/2"-3" - 4pcs of bolts and bolt nuts
 * For 4" - 6pcs of bolts and bolt nuts
 * For 6" - 12pcs of bolts and bolt nuts
 &For 1-1/2"-3" - 12pcs of bolts and bolt nuts
 &For 4" - 18pcs of bolts and bolt nuts
 &For 6" - 30pcs of bolts and bolt nuts
 For 1-1/2"-3" - Handle-B material is SS304
 For 4"-6" - Handle-B material is Carbon iteel
 #For 1-1/2"-4" - 3pcs of Belleville Washer
 #For 6" - 8pcs of Belleville Washer

DIMENSIONS(mm)

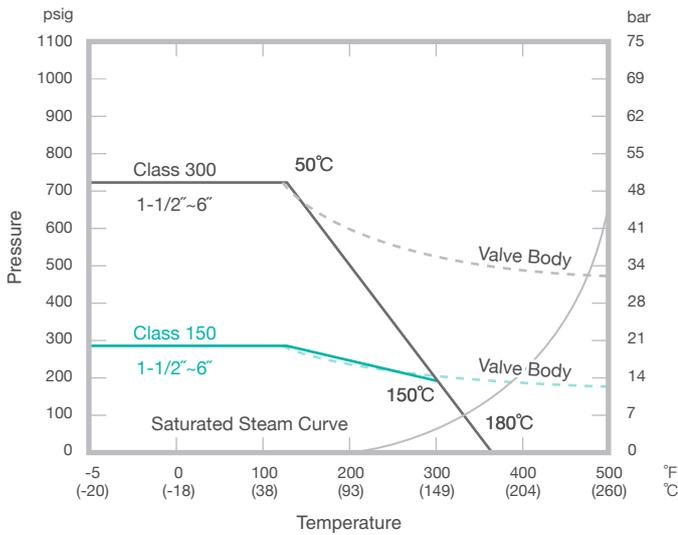
SIZE	øA	B	C	D	D1	D2	øI	øJ	L	øL	N	øN	øP	@øP	øQ	@øQ	øR	øT	@øT	W	@W	W1	øU	øV	ISO 5211
1-1/2"	40	17/19	265	105	19	53.5	70	102	183	219	4	4	98.6	114.3	16	22.2	73.2	127	155.4	14.3	20.3	1.6	10	12	FOR F07/F10
2"	50	17/19	262	113	19	53.5	70	102	220	238	4	8	120.7	127	19	19	91.9	152.4	165.1	15.9	22.4	1.6	10	12	FOR F07/F10
2-1/2"	66	22	365	136.5	21	46	102	125	281	285	4	8	139.7	149.4	19	22.2	104.6	177.8	190.5	17.6	25.4	1.6	12	14	FOR F10/F12
3"	76	22	505	146.7	21	46	102	125	285	301	4	8	152.4	168.2	19	22.2	127	190.5	209.6	19.1	25.4	1.6	12	14	FOR F10/F12
4"	101	27	705	191	29	61	125	140	348	390	8	8	190.5	200.2	19	22.2	157.2	228.6	254	23.9	31.8	1.6	14	18	FOR F12/F14
6"	150	36	955	244	38	64	140	165	480	480	8	12	241.3	269.7	22.2	22.2	216	279.4	317.5	26.3	37.4	1.6	18	22	FOR F14/F16

TECHNICAL DATA | Breakaway torque / Cv and Kv values / Weight

Valve size	Torque		Cv values	Kv values (M ³ /h)	Weight (Kg)
	N.m	lbs.in			
1/2"	51	452	54	46	10.9
2"	66	585	90	77	16.6
2-1/2"	117	1037	159	135	26.1
3"	268	2375	211	179	32.5
4"	328	2906	386	328	60.2
6"	386	3420	926	787	136.6

TECHNICAL DATA | Pressure - Temperature Diagram | 1/2" ~ 6"

Series : M602
 Seat material : PTFE / RTFE



OPTIONAL ACCESSORIES

| Handle Options



T-Bar Handle



S.S Investment Casting Handle



Economical Stem Extension

| Accessories



Actuator



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Established in 1992
TAWD has dedicated over 30 years to
manufacturing premium ball valves

INNOVATION

INTEGRITY

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