



# Series 30 3-Way Flanged Ball Valve

Sizes 8" thru 12"

316SST or WCB

Full Port Design

ASME Class 150 and 300

1-pc Ball & Stem

Blowout Proof Stem

RTFE Seats Standard

"L" or "T" Port Option

Trunnion Ball Design

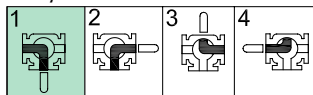
Lockable Manual Handle



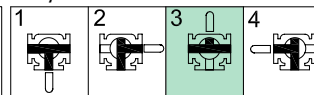
This 3-way ball valve offers diverting and mixing flow patterns, often eliminating the need for two valves. The full port design is easily automated and is available with various seat materials. The bolts on side flanges make for easy seat changes as necessary to accommodate your service. Available in L or T port configurations.

**FLOW PATTERNS**

**3-Way L-Port**



**3-Way T-Port**



Shaded boxes indicate standard flow path from factory unless otherwise specified by customer. Automated assemblies rotate counter-clockwise standard from the factory when energized. For L-Ports that would be L1 to L2 and T3 to T4 for T-ports. By specifying FCCW or DAR actuators, multiple flow patterns can be achieved to meet process requirements.

**Cv Values**

VALVE SIZE	T-PORT STRAIGHT THRU	L & T-PORT 90°
8"	8,800	1,828
10"	13,500	3,159
12"	20,130	4,626

SIZE	Break Away Torque for RTFE Seats	
	Class 150	Class 300
8"	20,000	25,200
10"	32,500	45,500
12"	43,750	61,250

Published torques are based on full differential pressure with clean water. Consult the Application Sizing Guide for assistance with sizing actuators.

## Easy to Automate!

See automated data sheets for pre-sized assemblies



Pneumatic



Electric

**STANDARDS**

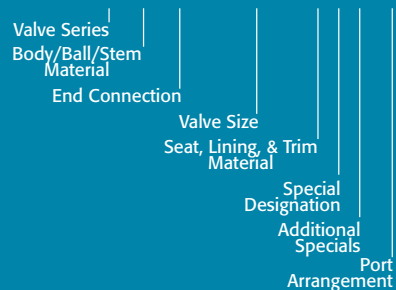
- Design ASME B16.34
- Flanged Ends ASME B16.5
- Face-to-Face (per factory's standard)
- Pressure Testing API 598
- Mounting ISO 5211
- Marking System for Valves MSS SP-25
- Material Certification EN 10204-3.1 MTR
- Quality Assurance ISO 9001:2015



CRN

## HOW TO ORDER MANUAL VALVES

SAMPLE PART #  
**30C-F1-0800-XXX-T**



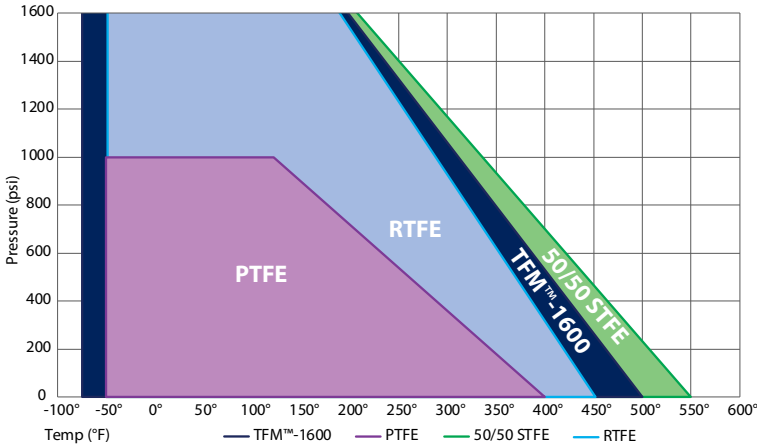
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# Series 30

## 3-Way Flanged Ball Valve Full Port, L or T Option ASME Class 150 & 300

Pressure vs. Temperature - Seat Pressure Ratings

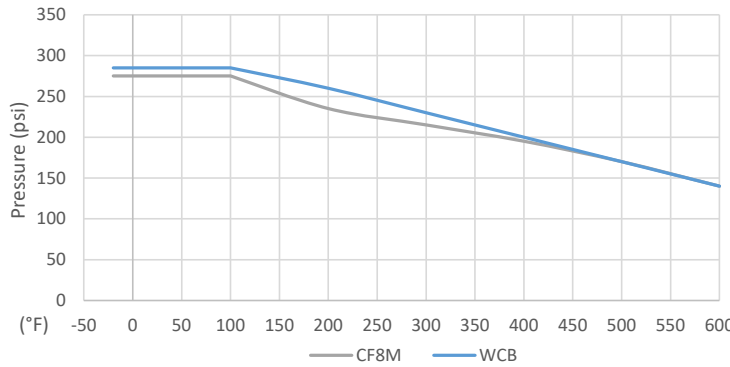


Temp	Pressure - Seat Material			
	RTFE	STFE	PTFE	TFM™-1600
-75°				2000
-50°	2000	2000	1000	2000
100°	2000	2000	1000	2000
122°	2000	2000	1000	2000
150°	1829	1869	899	1852
200°	1524	1636	719	1587
250°	1220	1402	540	1323
300°	915	1168	360	1058
350°	610	935	180	794
400°	305	701	0	529
450°	0	467		265
500°		234		0
550°		0		

30 Series Component Temperature Ratings		
COMPONENT	MATERIAL	TEMPERATURE
Packing	PTFE	-50°F to 400°F
Gaskets	PTFE	-50°F to 400°F
Seats (Other Materials Available)	PTFE	-50°F to 400°F
	RTFE (standard)	-50°F to 450°F
	TFM™-1600	-75°F to 500°F
	50/50 STFE	-50°F to 550°F

NOTE: At temperature, valves are limited by either the valve body/end cap pressure ratings, seat pressure ratings, or packing/stem seal/gaskets; whichever is lower.

Pressure vs. Temperature

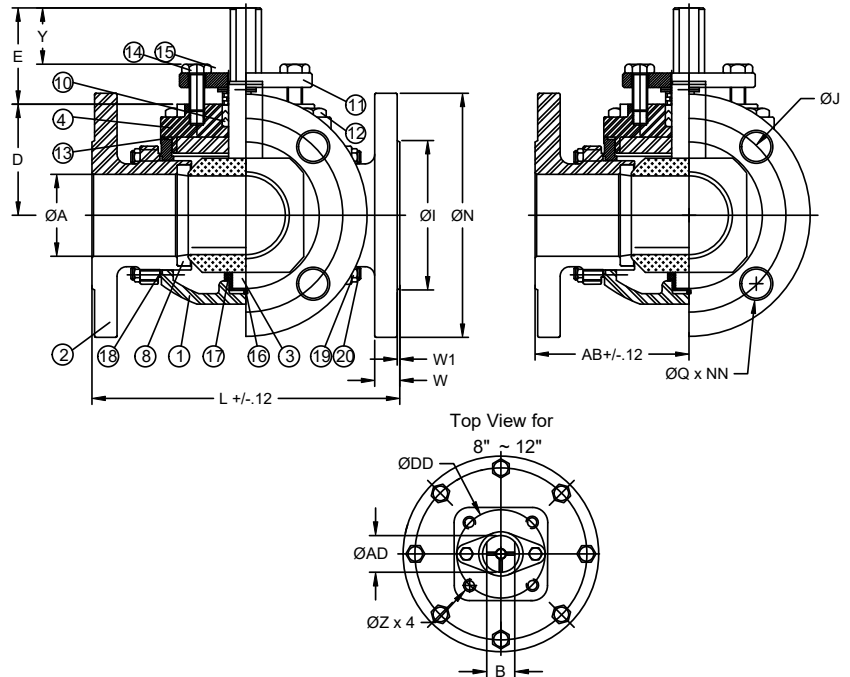


Temp	CF8M psi	WCB psi
-20°	275	285
100°	275	285
200°	235	260
300°	215	230
400°	195	200
500°	170	170
600°	140	140

### MATERIALS LIST

NO.	PART NAME	QTY	STAINLESS STEEL	CARBON STEEL	REPAIR KIT
1	BODY	1	ASTM A351 GRADE CF8M	ASTM A216 GRADE WCB	
2	FLANGE	3	ASTM A351 GRADE CF8M	ASTM A216 GRADE WCB	
3	BALL & STEM	1	ASTM A276 SS316	AISI 304	
4	TOP COVER	1	ASTM A351 GRADE CF8M	ASTM A216 GRADE WCB	
5	C RETAINER RING	1	AISI 301	AISI 301	
6	BELLEVILLE WASHER	2	AISI 301	AISI 301	
7	HANDLE	1	CAST IRON	CAST IRON	
8	SEATS	3	RTFE	RTFE	✓
9	GLAND	1	AISI 304	AISI 304	
10	V-RING PACKING	3	PTFE	PTFE	✓
11	BONNET CAP	1	ASTM A351 GRADE CF8M	ASTM A351 GRADE CF8M	
12	COVER BOLT	*	ASTM A351 GRADE B8	ASTM A351 GRADE B7	
13	COVER JOINT GASKET	1	PTFE	PTFE	✓
14	BONNET CAP BOLT	2	AISI 304	AISI 304	
15	STOPPER	1	AISI 304	AISI 304	
16	SPRING	1	AISI 304	AISI 304	
17	BUSHING	1	50/50 STFE	50/50 STFE	✓
18	FLANGE GASKET	3	PTFE	PTFE	✓
19	NUT	**	ASTM A194 GRADE 8	ASTM A194 GRADE 2H	
20	STUD	**	ASTM A193 GRADE B8	ASTM A194 GRADE B7	

\*for 8" (12 pcs), for 10" (18 pcs), & for 12" (24 pcs)  
\*\*for 8" (24 pcs), for 10" (48 pcs), & for 12" (60 pcs)



### DIMENSIONS For ANSI Class 150 (IN)

SIZE	ØA	B	D	E	^E	ØI	ØJ	L	ØN	ØQ	W	W1	Y	^Y	ØZ	AB	ØAD	ØDD	NN	LBS.	ISO5211
8"	7.91	1.772	8.07	3.54	3.50	10.63	11.75	21.22	13.50	0.87	1.13	0.06	3.07	1.75	5/8-11	10.61	2.362	6.496	8	397	F16
10"	9.84	1.772	9.17	4.33	4.25	12.76	14.25	27.68	15.98	0.98	1.19	0.06	2.17	1.75	5/8-11	13.84	3.362	6.496	12	617	F16
12"	11.81	2.165	11.10	4.72	4.29	15.00	17.00	30.35	19.02	0.98	1.25	0.06	1.97	1.75	5/8-11	15.18	2.756	6.496	12	772	F16

DIMENSIONS WITH SYMBOLS (^) ARE FOR SANDCAST CARBON STEEL VALVES

Due to differences between sand cast and investment cast valves, A-T Controls requires that each valve be measured for the correct stem height and width before making a Mounting Adaption. Dimensions B, E, and Y are for reference only.

### \*DIMENSIONS For ANSI Class 300 (IN)

SIZE	^ØJ	^*L	^*AB	^*ØN	^*ØQ	^*W	^*W1	^*NN	^*LBS.	ISO5211
8"	12.99	23.94	10.47	15.00	0.98	1.63	0.06	12	634	F16
10"	15.26	30.28	15.14	17.48	1.14	1.88	0.06	16	758	F16
12"	17.76	31.53	15.77	20.51	1.26	2.00	0.06	16	CF	F16