



# BALL VALVES

## DIRECT MOUNT 3 WAYS FULL PORT BALL VALVE



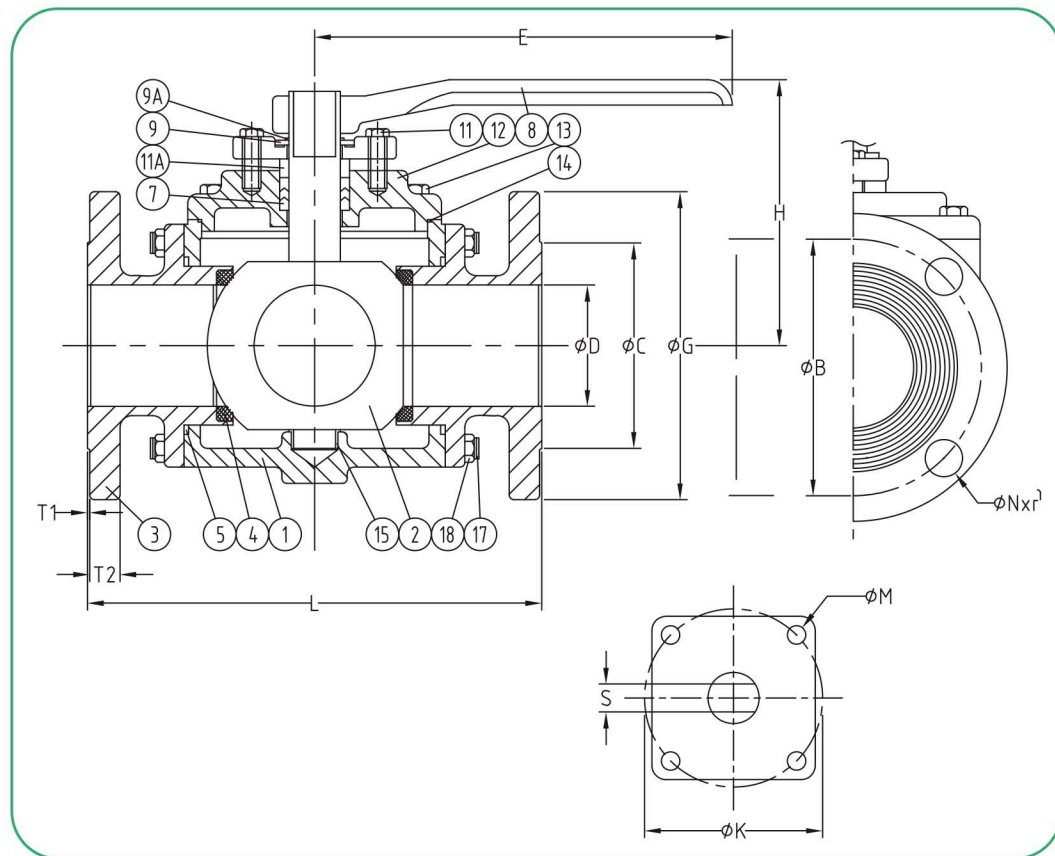
### FEATURES

- ISO 5211 MOUNTING PAD. Allows direct mounting of Pneumatic and electric actuators, no brackets and coupling needed. Easy and low cost for automated service.
- COST EFFICIENT. One valve can replace two or more valves, reduces the number of valves in piping system.
- FOUR SEATS DESIGN
- THREE INDEPENDENT FLANGED ENDS DESIGN
- LIVE LOADED STEM PACKING
- LOCKING DEVICE
- PTFE WITH 15% GLASS FIBER SETS
- ANTISTATIC DEVICE
- "L, T & X" PORT AVAILABLE
- ADJUSTABLE STEM PACKING
- BLOW-OUT PROOF STEM
- INVESTMENT CAST BODY CONSTRUCTION
- FLANGED ANSI CLASS 150# (300# AVAILABLE UPON REQUEST)
- MANUFACTURED IN ISO 9001 APPROVED FACILITY

### MATERIAL LIST

No.	PART NAME	MATERIAL
1	BODY	WCB   SS 316
2	BALL & STEM	CF8M (SS316)
3	FLANGED END CAP	WCB   SS 316
4	SEAT	RPTFE *
5	BODY SEAT	PTFE
7	STEM PACKING	PTFE
8	HANDLE	FCD45
9	STOPPER	SS 304
9A	RETAINER BOLT	S45C
11	GLAND BOLT	SS 304
11A	GLAND	CF8
12	COVER	WCB   SS 316
13	COVER BOLT	SS 304
14	COVER SEAL	PTFE
15	STEM SLEEVE	PTFE
17	BODY STUD	SS 304
18	BODY NUT	SS 304

\* MATERIAL AVAILABLE: PTFE, CARBON FILLED PTFE, 50/50 SS FILLED PTFE, UHMWPE... ETC



### DIMENSION (INCHES)

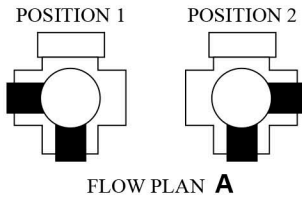
SIZE	ØB	ØC	ØD	E	ØG	L	H	S	ØK	ØM	T1	T2	n	ØN	Torque (IN-LBS)	CV	Weight (LBS)
2	4.75	3.62	1.97	15.16	6.00	8.66	4.8	0.67	2.76	3/8	0.06	0.63	4	0.75	800	153	36
2 1/2"	5.50	4.13	2.60	15.16	7.00	11.14	6.42	0.67	2.76	7/16	0.06	0.69	4	0.75	1,200	275	56
3	6.00	5.00	2.99	15.16	7.50	10.95	6.89	0.67	4.02	7/16	0.06	0.75	4	0.75	1,800	364	75
4	7.50	6.18	3.98	15.16	9.00	13.11	8.47	0.91	4.92	1/2	0.06	0.94	8	0.87	3,100	662	122
6	9.50	8.50	5.95	16.69	11.00	16.85	10.08	1.38	4.92	1/2	0.06	1.00	8	0.87	10,000	1575	300
8	11.75	10.63	7.91	19.69	13.50	20.87	11.93	1.77	6.50	5/8	0.06	1.13	8	0.87	18,000	2889	530
10	14.25	12.76	9.84	19.69	16.00	27.68	12.99	1.77	6.50	5/8	0.06	1.19	12	0.98	26,000	4470	684



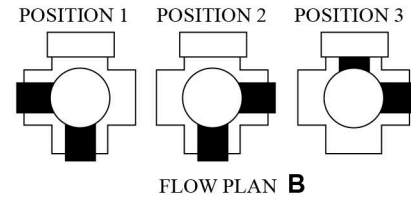
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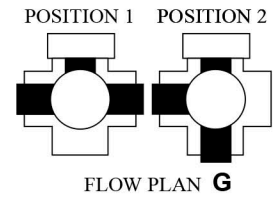
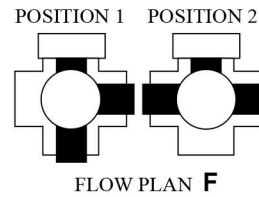
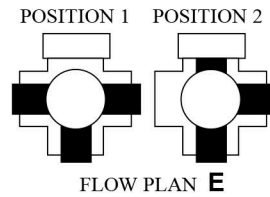
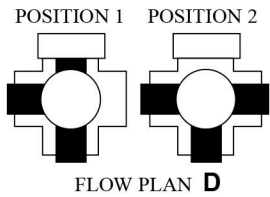
### L-PORT 90°TURN



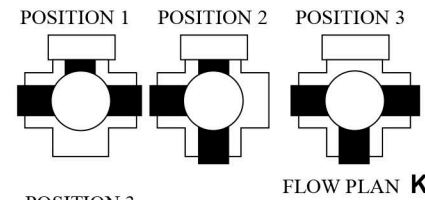
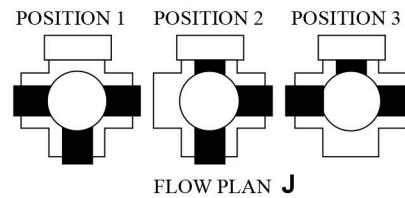
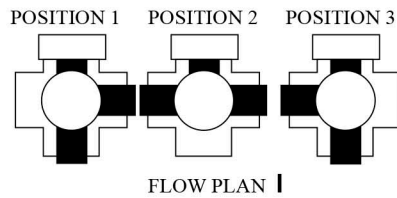
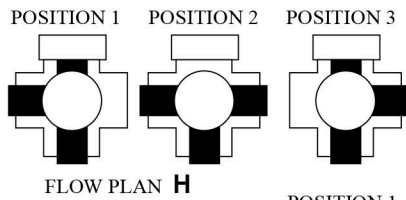
### L-PORT 180°TURN



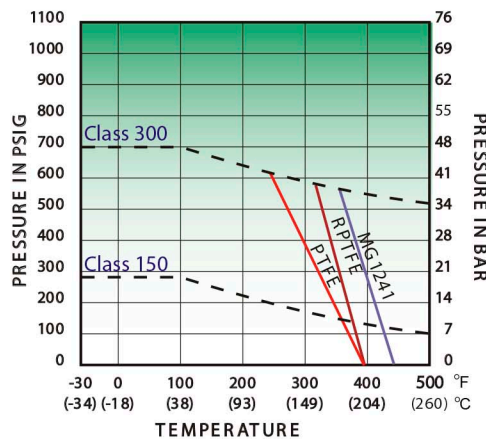
### T-PORT 90°TURN



### T-PORT 180°TURN



### PRESSURE-TEMPERATURE CHART





# BALL VALVES

## DIRECT MOUNT 3 WAYS FULL PORT BALL VALVE

### HOW TO ORDER

VALVE BODY DESIGN (SERIES)	FEATURES	MATERIAL			ENDS	CLASS	SIZE	OPERATION
		BODY	TRIM	SEAT				
<b>3WL</b> Full Port 3 Ways Ball Valve Port "L"	<b>NONE</b> NONE	<b>2</b> WCB	<b>3</b> 316SS	<b>P</b> PTFE	<b>F</b> Flanged RF	<b>0</b> ANSI 150# <b>3</b> ANSI 300#	<b>02</b> 2" <b>02.5</b> 2 1/2" <b>03</b> 3" <b>04</b> 4" <b>06</b> 6" <b>08</b> 8" <b>10</b> 10"	<b>L</b> Manual Lever Operator <b>B</b> Bare Shaft <b>G</b> Gear Operator <b>S</b> Spring Return Safety Handle <sup>(2)</sup> <b>SR</b> Spring Return Sliding Lock <b>O</b> Oval Handle <b>E</b> Economical Stem Extension <b>P</b> Peumatic Actuator <b>E</b> Electric Actuator
<b>3WT</b> Full Port 3 Ways Ball Valve Port "T"	<b>O</b> Oxigen Service <sup>(1)</sup>			<b>R</b> R-PTFE				
<b>3WX</b> Full Port 3 Ways Ball Valve Port "X"	<b>F</b> Fire Safe			<b>U</b> UHMWPE				
<b>3WLM</b> Full Port 3 Ways Ball Valve Port "L" ISO 5211 MK				<b>S</b> 50/50 SS Filled PTFE				
<b>3WTM</b> Full Port 3 Ways Ball Valve Port "T" ISO 5211 MK				<b>C</b> Carbon Filled PTFE				
<b>3WXM</b> Full Port 3 Ways Ball Valve Port "X" ISO 5211 MK				<b>M</b> MG1241				
				<b>D</b> DELRIN <b>K</b> PEEK				

Example

3 Ways Full Port Ball Port "L" Valve, Body & Trim 316SS, Seats: PTFE, Ends: Flanged ANSI Class 150#, Size 2" with Lever  
**3WL-33P-F002L**

NOTES

- (1) Available for stainless steel valves only
- (2) Available for valve body design: 4WLM, TM & XM Only

