



## MULTI-PORT 3-WAY FLANGED BALL VALVES

### BOTTOM ENTRY SERIES

STANDARD PORT - ONE PIECE BODY

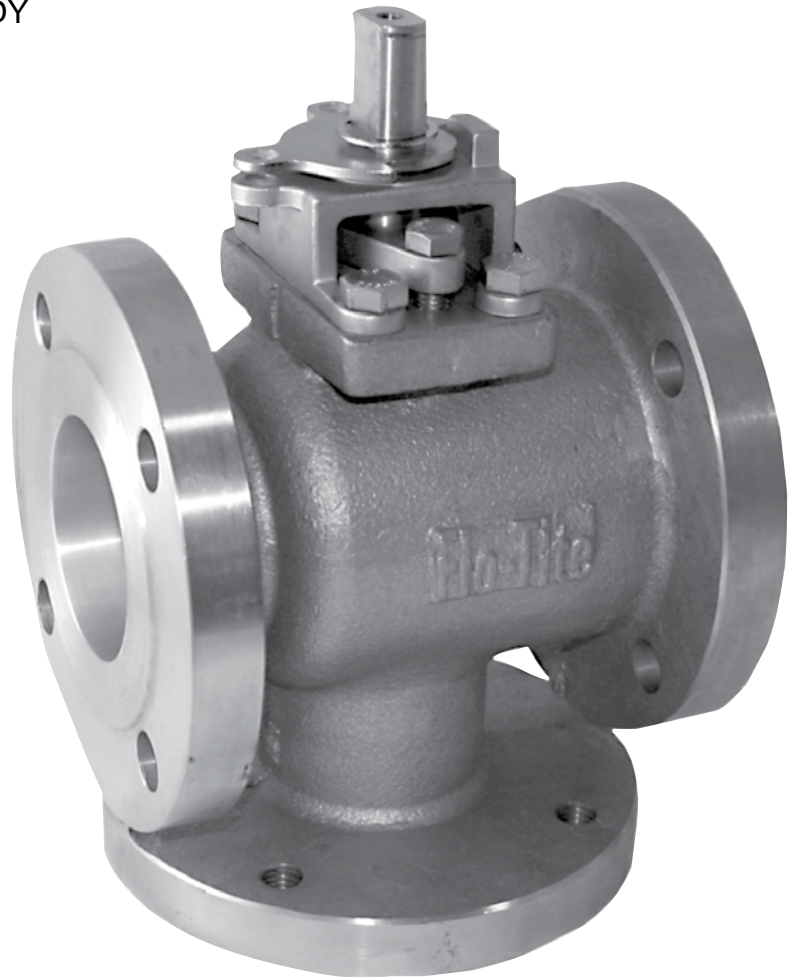
Model No. MPF155

ANSI Class 150

Size: 2" - 6"

Stainless or Carbon

Flo-Tite's Bottom Entry Series provides piping system engineers greater design flexibility. Making the flo-tite valve a valuable choice for a multitude of applications.



### DESIGN FEATURES

Flo-Tite's Bottom Entry Series 3-way ball valves feature a floating ball design with the valve stem on center between the flanged ends. Dimensionally direct replacements for non-lubricated plug valves, the compact size, lower weight and reduced cost of these ball valves offer an excellent alternative to the traditional plug. The one piece bodies are constructed of high quality Carbon Steel or Stainless Steel as standard. Special body alloys are also available, upon request.

Other features include replaceable seats and seals, and an optional

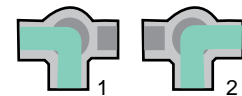
Media Containment unit. Live-loaded, self-adjusting stem seals automatically adjust to compensate for changes in temperature and wear.

#### **Fire Safe - Certified to API 607 4th Edition**

All Bottom Entry Series valves have been thoroughly fire tested and meet the standards for external leakage only. Additional safety features include internally loaded blow-out proof stems and locking devices to prevent accidental movement of ball position.

### FLOW - PATTERNS

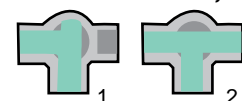
**Model 3W1: L-Port, 90°**



**Model 3W2: L-Port, 180°**



**Model 3W3: T-Port, 90°**



**DIMENSIONS AND TECHNICAL DATA**

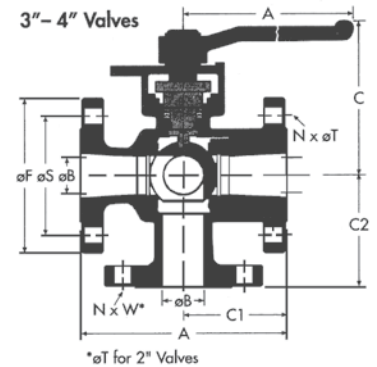
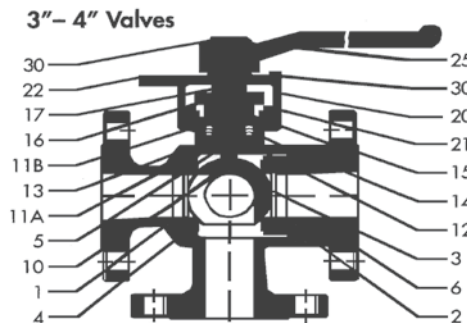
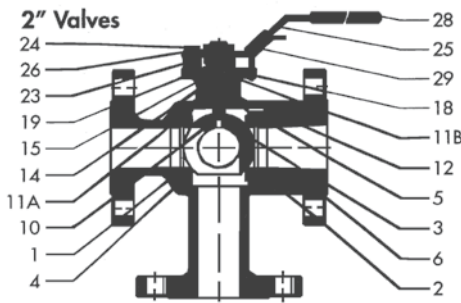
**BOTTOM ENTRY SERIES - Model MPF 155**

**BILL OF MATERIALS**

**3-WAY DIVERTER BALL VALVE**

Item	Name	MPF155-SS	MPF155-CS	Qty.	Item	Name	MPF155-SS	MPF155-CS	Qty.
1	Body	ASTM A351 Gr CF8M	ASTM A216 Gr WCB	1	18	Belleville Washer	SS301	SS301	2
2	Body Insert	ASTM A351 Gr CF8M	ASTM A216 Gr WCB	1	19	Lock Washer	SS304	SS304	1
3	Ball	ASTM A351 Gr CF8M	ASTM A351 Gr CF8M	1	20	Stop Housing	ASTM A351 Gr CF8	ASTM A351 Gr CF8	1
4	Seat *	SUPERTEK (TFM)	SUPERTEK (TFM)	2	21	Housing Bolt	SS304	SS304	4
5	Stem *	ASTM A479 Type 316	ASTM A479 Type 316	1	22	Travel Stop	SS304	Zinc Plated Carbon Steel	1
6	Body Seal	TFM 1600	TFM 1600	1	23	Travel Stop Set Sleeve	SS304	SS304	1
10	Anti-Static Device	SS300	SS300	2	24	Travel Stop Bolt	SS304	SS304	1
11 A/B	Thrust Bearing*	50% PRFE + 50% SS316	50% PRFE + 50% SS316	2	25	Handle	Ductile Iron †	Ductile Iron †	1
12	Thrust Washer*	RPTFE or TFM	RPTFE or TFM	1	26	Handle Lock Nut	ASTM A167 Type 304	ASTM A167 Type 304	2
13	Stem Bearing Sleeve*	RPTFE or TFM	RPTFE or TFM	1	27	Handle Bolt	Carbon Steel	Carbon Steel	1
14	Stem Packing*	RPTFE or TFM	RPTFE or TFM	3	28	Handle Sleeve	Vinyl (2" valves only)	Vinyl (2" valves only)	1
15	Gland Ring	ASTM A167 Type 304	ASTM A167 Type 304	1	29	Locking Device	SS300	SS300	1
16	Gland Plate	ASTM A351 Gr CF8	ASTM A216 Gr CF8	1	30	Snap Ring	Nickel Plated Carbon Steel	Nickel Plated Carbon Steel	1
17	Gland Bolt	SS304	SS304	2	* Parts included in the repair kit ** For 2" = ASTM A167 Type 304 † For 2" - SS304				

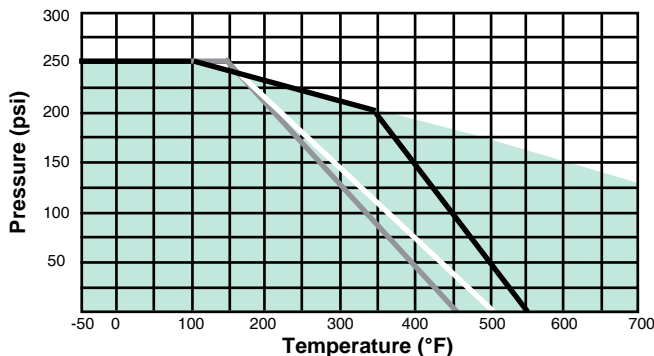
**TECHNICAL DATA**



**DIMENSIONS**

Size ins mm	A	øB	C	C1	C2	D	øF	N	øS	øT	W	C <sub>v</sub>	Torque	Weight
													lbs-in kgf-cm	lbs kgf
2	7.0	1.50	4.20	3.50	4.50	10.0	6.00	4	4.75	0.75	N/A	48	250	24
50	177.8	38	107	89	114	254	152.4		120.7	19			288	11
3	8.0	2.56	6.00	4.00	6.00	15.4	7.50	4	6.00	0.75	5/8-11	170	560	51
80	203.2	65	152	102	152	391	190.5		152.4	19	UNC		644	23
4	9.0	3.0	6.54	4.50	7.15	15.4	9.00	8	7.50	0.75	5/8-11	420	975	70
100	228.6	76	166	114	182	391	228.6		190.5	19	UNC		1121	32

**PRESSURE / TEMPERATURE**



**NOTE:**

- Other valve sizes on application.
- Other seat materials are available.
- Valves can accept line media through bottom inlet only.
- Valves with "T port" or "L port 90° ball turn" can be actuated with a standard 90° actuator
- Smaller sizes available in bottom flow series.
- Valves with "L port 180° ball turn" require a special 180° actuator.
- The 3-way ball/seat closure is effective only at the two end ports, line media should enter through the center or intervening port.
- Transflow problems can be eliminated with this bottom entry diverter design.