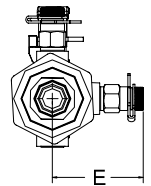
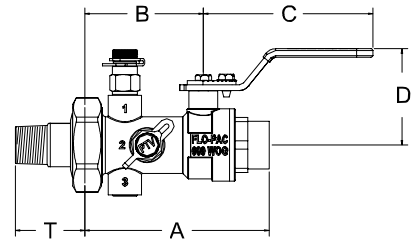


Model MB is a venturi style manual balancing valve with 100% positive shut-off full port plated ball. Permanently installed venturi section, Teflon seats, double o-r



### SPECIFICATIONS

- Pressure Ratings: (4140 kPa)
- Temperature Ratings: 250F (120C)
- Flow Element: Brass Venturi, Permanently mounted
- Accuracy: ± 3% of rate
- Body Material: Forged Brass
- End Connections: Brass – Fixed End:SWT, FNPT; Union End: SWT, FNPT,& MNPT
- Seals: EPDM
- Ball: Chrome Plated Brass, full port, 100% positive shut-off
- Handle: Full size Zinc Plated lever with Vinyl Grip
- Memory Stop: Zinc Plated Steel
- Available Options: "PTV" combination PT & air vent, hose end drain valve, & extensions

### NOMINAL DIMENSIONS & WEIGHTS

Size		Flow Range GPM (10"-100")	A		B	C	D	E	*T MPT	Cv	Wgt		
in	mm		FNPT	SWT							lbs	kg	
1/2"	15	(L) 0.4 - 1.3	in	3.46	3.55	2.30	3.66	1.99	1.82	1.50	(L) .750	1.45	0.66
		(H) 1.3 - 4.0	mm	87.78	90.25	58.42	93.02	50.50	46.20	38.10	(H) 2.25		
3/4"R	20	(L) 0.4 - 1.3	in	3.60	3.67	2.30	3.66	1.99	1.82	1.50	(L) .750	1.45	0.66
		(H) 1.3 - 4.0	mm	91.47	93.27	58.42	93.02	50.50	46.20	38.10	(H) 2.25		
3/4"	20	(L) 1.6 - 5.0	in	3.86	3.98	2.56	3.66	2.08	2.05	1.56	(L) 2.70	1.94	0.88
		(H) 4.0 - 13.0	mm	98.07	101.12	65.05	93.01	52.83	52.07	39.70	(H) 7.00		
1"	25	3.2 - 10.0	in	4.30	4.43	2.78	5.03	2.22	2.05	1.80	5.20	3.33	1.06
			mm	109.22	112.62	70.56	127.76	56.31	52.07	45.72			
1-1/4"	32	7.25 - 23.0	in	5.39	5.56	3.70	5.03	2.44	2.43	1.80	13.00	4.84	2.20
			mm	136.83	141.25	93.95	127.76	61.90	61.74	45.72			
1-1/2"	40	9.5 - 30.0	in	6.08	6.36	4.14	5.65	2.83	2.43	1.80	16.00	6.29	2.86
			mm	154.40	161.62	105.13	143.59	71.81	61.74	45.72			
2"	50	15.0 - 50	in	7.03	7.71	4.93	5.65	3.09	2.74	1.98	30.00	10.08	4.58
			mm	178.66	195.76	125.12	143.59	78.56	69.67	50.17			

\* Please reference the tailpiece data sheet (From # FP-TP) for other sizes and connections.  
**Dimensions not for construction purposes unless certified by factory.**

### STANDARD COMPONENTS



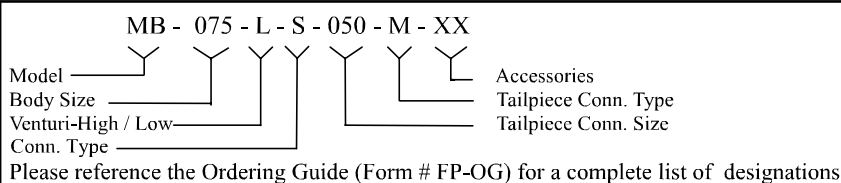
Pressure/Temperature test port with brass body, dual durometer EPDM core, brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 500 PSI (3450 kPa) a



Memory stop with position indicator, zinc coated steel.

Please reference Flo-Pac data sheet (Form # FP-ACC) for optional accessories.

### ORDER DESIGNATIONS



Flo-Pac, LLC.  
 10545 Guilford Road, Unit 103  
 Jessup, Maryland 20794  
 www.flo-pacllc.com



Model # MB  
Venturi Type Balancing Valve

File # FPFC-1  
7/18/05

Differential Pressure: Inches W.C											
Flow GPM	Models							Flow GPM	Models		
	050L 075RL	050H 075RH	075L	075H	100	125	150		125	150	200
0.10	1							18.00	62	36	14
0.20	2							19.00	69	41	15
0.30	5							20.00	76	45	17
0.42	10							21.00	84	50	19
0.50	14	1	1					22.00	92	54	21
0.75	31	3	2					23.00	101	60	23
1.00	55	6	4					24.00	110	65	25
1.25	86	9	6					25.00	119	70	27
1.35	101	11	7					26.00	129	76	29
1.50	124	13	9	1	2			27.00	139	82	31
2.00	221	23	16	2	4			28.00	149	88	34
2.25		29	21	3	5			29.00	160	95	36
2.50		36	25	4	6			30.00	171	101	39
3.00		52	36	6	9			31.00	183	108	41
3.50		71	50	8	13			32.00	195	115	44
4.00		92	65	10	16			33.00	207	122	47
4.50		117	82	13	21			34.00	220	130	50
5.00		144	101	15	26			35.00		138	53
5.50		175	123	19	31			36.00		146	56
6.00		208	146	22	37			37.00		154	59
6.50			171	26	43	8		39.00		171	65
7.25			213	33	54	10		40.00		180	69
7.50				35	58	11		41.00		189	72
8.00				40	65	12		42.00		198	76
8.50				45	74	14		43.00		208	79
9.00				50	83	15		44.00		218	83
9.50				56	92	17	10	45.00			87
10.00				62	102	19	11	48.50			101
10.50				68	113	21	12	55.00			130
11.00				75	124	23	14	60.00			154
11.50				82	135	25	15	65.00			181
12.00				89	147	27	16	70.00			210
12.50				97	160	30	18				
13.00				105	173	32	19				
14.00				121	200	37	22				
15.00				139		43	25				
16.00				159		49	29				
17.00				179		55	33				
<b>SIZE</b>	1/2"L&3/4"RL	1/2"H-3/4"RH	3/4"L	3/4"H	1"	1-1/4"	1-1/2"		1-1/4"	1-1/2"	2"
<b>FF</b>	0.1346	0.4163	0.4967	1.2704	0.9889	2.2921	2.9816		2.2921	2.9816	4.8274
<b>C<sub>v</sub></b>	0.75	2.25	2.70	7.00	5.20	13.00	16.00		13.00	16.00	30.00

**Flow Formulas**

GPM = FF x (√DP)

DP = (GPM/FF)<sup>2</sup>

PSID = (GPM/C<sub>v</sub>)<sup>2</sup>

PPL = DP\*0.12

**Notes**

- 1 Accuracy +/- 3% of actual rate as tested by independent flow laboratory
- 2 Repeatability +/- 0.25% of rate
- 3 Values in **BOLD** type represents traditional 10" to 100" sizing range
- 4 All valves will function above and below ranges shown
- 5 C<sub>v</sub> is for complete valve pressure drop calculations only