

Models MB1e, MB2e, MB3e & MB4 Venturi Type Balancing Valve 0.50" - 2.00"

Differential Pressure: Inches W.C.

FLOW GPM	VENTURI SIZE						FLOW GPM	VENTURI SIZE	
	M1e 0.50", 0.75", 1.00"		M2e 0.75", 1.00", 1.25"		M3e 1.25", 1.50"	M4 2.00"		M3e 1.25", 1.50"	M4 2.00"
	1A	1B	2A	2B	3A	4A		3A	4A
0.10	1						18.00	71	14
0.20	2						19.00	79	15
0.30	5						20.00	87	17
0.42	10	0.8					21.00	96	19
0.50	14	1.1	1				22.00	106	21
0.75	31	2.5	2				23.00	116	23
1.00	55	4.4	4				24.00	126	25
1.25	86	6.8	6				25.00	137	27
1.35	101	7.9	7	1			26.00	148	29
1.50	124	10	9	1.4			27.00	159	31
2.00	221	17	16	2.5			28.00	171	34
2.25		22	21	3	1.1		29.00	184	36
2.50		27	25	4	1.4		30.00	197	39
3.00		39	36	6	2.0		31.00	210	41
3.50		53	50	8	2.7		32.00	224	44
4.00		70	65	10	3.5		33.00	238	47
4.50		88	82	13	4.4		34.00	253	50
5.00		109	101	15	5.5		35.00	268	53
5.50		132	123	19	6.6		36.00		56
6.00		157	146	22	7.9	1.5	37.00		59
6.50		184	171	26	9.2	1.8	39.00		65
7.25		229	213	33	11.5	2.1	40.00		69
7.50		245	228	35	12.3	2.4	41.00		72
8.00				40	14	2.7	42.00		76
8.50				45	15.8	3.1	43.00		79
9.00				50	17.7	3.5	44.00		83
9.50				56	19.7	3.9	45.00		87
10.00				62	21.9	4.3	48.50		101
10.50				68	24.1	4.7	55.00		130
11.00				75	26.4	5.2	60.00		154
11.50				82	28.9	5.7	65.00		181
12.00				89	31.5	6.2	70.00		210
12.50				97	34.2	6.7	75.00		241
13.00				105	36.9	7.3			
14.00				121	42.8	8.4			
15.00				139	49.2	9.7			
16.00				159	56.0	11.0			
17.00				179	63.2	12.4			
FF	0.1346	0.479	0.4967	1.2704	2.139	4.8274	FF	2.139	4.8274

Flow Formulas:

$$\text{GPM} = \text{FF} \times (\sqrt{\text{DP}})$$

$$\text{DP} = (\text{GPM}/\text{FF})^2$$

$$\text{PPL} = \text{DP} \times 0.12$$

Notes:

- 1) Accuracy \pm 3% of flow rate
- 2) Repeatability \pm 0.25% of rate
- 3) Recommended ranges are in BOLD type.
- 4) All valves will function above and below ranges shown. Pressure drop and readability should be taken into account.
- 5) The Permanent Pressure Loss (PPL) equals 12% of the Differential Pressure (DP).

