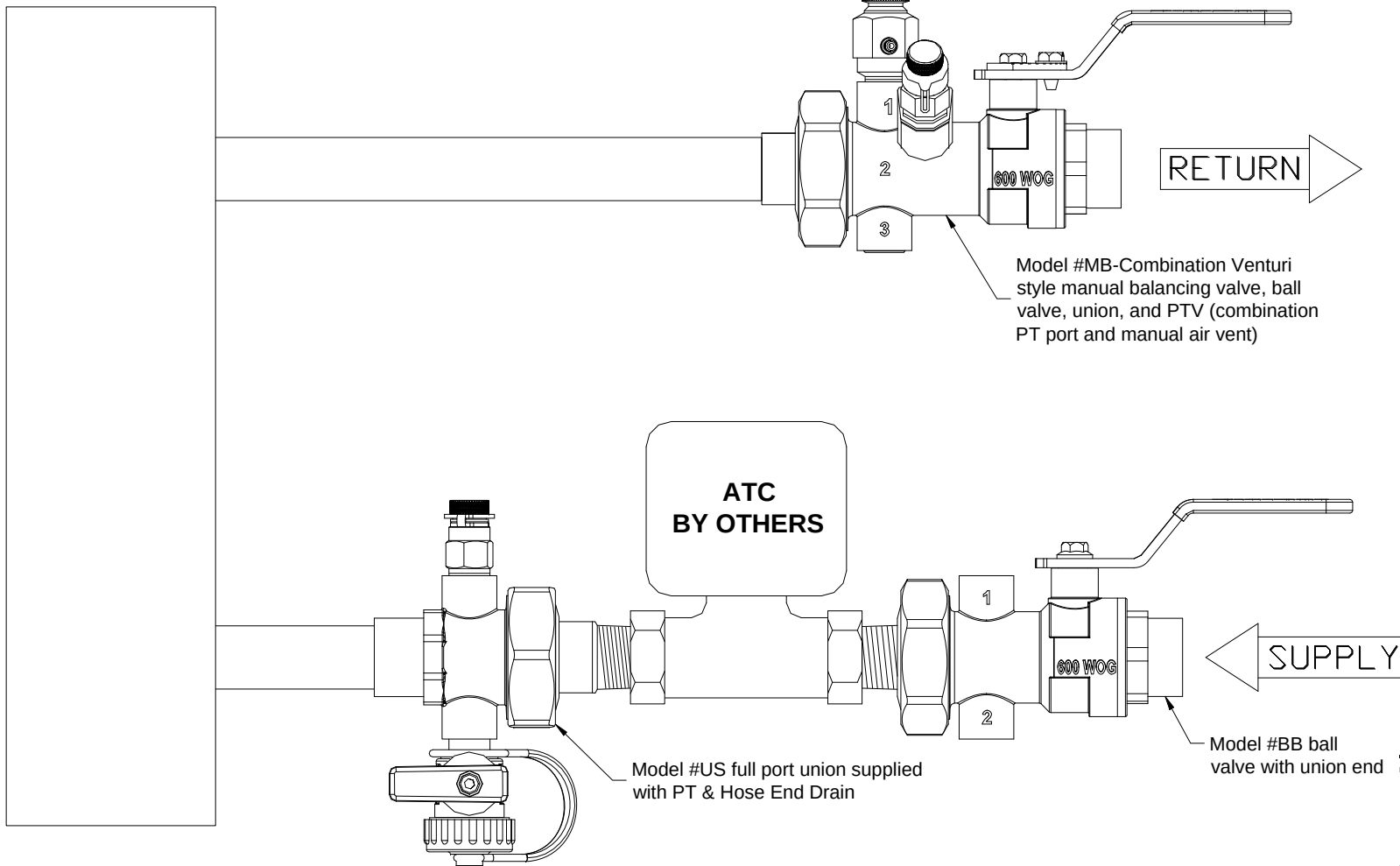


Valve Package (Model # 2SB-MV)

Typical For:

Job Name: _____
Location: _____
Engineer: _____
Contractor: _____

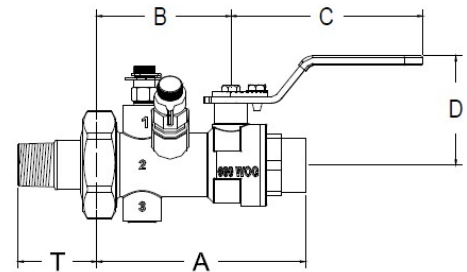


Submitted By:
Tunstall Corporation
118 Exchange Street
Chicopee, MA 01013
Phone: 413-594-8695
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Model MB is a venturi style manual balancing valve with 100% positive shut-off full port plated ball. Permanently installed venturi section, Teflon seats, double o-ring shaft seals, Pressure/Temperature readout ports, adjustable memory stop with position indicator and union end with o-ring seal. Available with multiple combinations of end connection types and sizes.

SPECIFICATIONS

Pressure Ratings:	600 PSI (4140 kPa)
Temperature Ratings:	250°F (121°C)
Accuracy:	± 3% of flow rate
Body Material:	Forged Brass
End Connections:	Fixed End: DZR Brass - SWT & FNPT Brass - Press End Union End: Brass - SWT, FNPT, MNPT & Press End
Flow Element:	Brass Venturi, Permanently installed
Seals:	EPDM
Seats:	Teflon
Ball:	Chrome Plated Brass. <i>Optional 316 Stainless Steel.</i>
Stem:	Brass. <i>Optional 316 Stainless Steel.</i>
Handle:	Full size Zinc Plated lever w/Vinyl Grip
Memory Stop:	Zinc Plated Steel
Available Options:	"PTV" combination PT & Air Vent, DV hose end Drain Valve & Extensions.



NOMINAL DIMENSIONS & WEIGHTS

MODEL	SIZE		Flow Range GPM (10"-100")	Cv*		A		B	C	D	**T SWT	WEIGHT	
	in	mm				FNPT	SWT					lbs	kg
MB1A-050-L MB1B-050-H	0.50"	15	(L) 0.4 - 1.3 (H) 1.5 - 5.0	2.0	in	4.14	4.50	2.45	2.33	1.64	1.50	1.37	0.62
				5.9	mm	105.14	114.30	62.23	59.18	41.65	38.09		
MB1A-075-L MB1B-075-H	0.75"	20	(L) 0.4 - 1.3 (H) 1.5 - 5.0	2.0	in	4.26	4.79	2.45	2.33	1.64	1.55	1.45	0.66
				5.9	mm	108.20	121.66	62.23	59.18	41.65	39.37		
MB1A-100-L MB1B-100-H	1.00"	25	(L) 0.4 - 1.3 (H) 1.5 - 5.0	2.0	in	4.59	5.04	2.45	2.33	1.64	1.75	1.52	0.69
				5.9	mm	116.58	128.01	62.23	59.18	41.65	44.45		
MB2A-075-L MB2B-075-H	0.75"	20	(L) 1.6 - 5.0 (H) 4.0 - 13.0	7.6	in	4.36	4.93	2.46	3.66	2.08	1.56	1.97	0.89
				13.0	mm	110.74	125.22	62.69	92.99	52.83	39.62		
MB2A-100-L MB2B-100-H	1.00"	25	(L) 1.6 - 5.0 (H) 4.0 - 13.0	7.6	in	4.57	5.22	2.46	3.66	2.08	1.75	2.06	0.93
				13.0	mm	116.07	132.58	62.69	92.99	52.83	44.45		
MB2A-125-L MB2B-125-H	1.25"	32	(L) 1.6 - 5.0 (H) 4.0 - 13.0	7.6	in	4.75	5.30	2.46	3.66	2.08	1.80	2.25	1.02
				13.0	mm	120.64	134.61	62.69	92.99	52.83	45.72		
MB3A-125	1.25"	32	6.7 - 21.0	29.0	in	6.51	7.49	3.48	5.03	2.26	1.80	4.16	1.89
					mm	165.35	190.24	88.39	127.76	57.40	45.72		
MB3A-150	1.50"	40	6.7 - 21.0	29.0	in	6.51	7.76	3.48	5.03	2.26	1.80	4.23	1.92
					mm	165.35	190.24	88.39	127.76	57.40	45.72		
MB4A-200	2.00"	50	15.0 - 50.0	77.0	in	6.57	7.36	4.45	5.66	2.83	1.98	7.10	3.22
					mm	166.90	187.00	113.00	143.60	71.90	50.29		

* Cv values are for the body only.

** Please reference the tailpiece data sheet #Bulletin-MB-TP for other sizes and connections.

Dimensions not for construction purposes unless certified by factory.

STANDARD COMPONENTS

	PT	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) and 275°F (135°C)
	MS	Memory stop with position indicator, zinc coated steel.

Please reference data sheet #Bulletin-MB-Accessories for optional accessories.

Optional features and accessories available for this Macon product are an extra charge, and not included in the standard model price.

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Section: Components Bulletin-MB-MB-1216.05

Differential Pressure Table - Model MB - 0.50" to 2.00"

Model MB Venturi Type Balancing Valve 0.50" - 2.00"

Differential Pressure: Inches W.C.

Flow GPM	MB1A- 050-L 075-L	MB1B- 050-H 075-H	MB2A- 075-L 100-L 125-L	MB2B- 075-H 100-H 125-H	MB3A- 125 150	Flow GPM	MB3A- 125 150	MB4A- 200
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	2.3	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	37.00		59
6.50		184	171	26	9.2	39.00		65
7.25		229	213	33	11.5	40.00		69
7.50		245	228	35	12.3	41.00		72
8.00				40	14.0	42.00		76
8.50				45	15.8	43.00		79
9.00				50	17.7	44.00		83
9.50				56	19.7	45.00		87
10.00				62	21.9	48.50		101
10.50				68	24.1	55.00		130
11.00				75	26.4	60.00		154
11.50				82	28.9	65.00		181
12.00				89	31.5	70.00		210
12.50				97	34.2	75.00		241
13.00				105	36.9			
14.00				121	42.8			
15.00				139	49.2			
16.00				159	56.0			
17.00				179	63.2			
FF	0.1346	0.479	0.4967	1.2704	2.139	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) Values in **BOLD** type represents traditional 10" to 100" sizing range.
- 4) All valves will function above and below ranges shown. Pressure drop and readability should be taken into account.

Optional features and accessories available for this Macon product are an extra charge, and not included in the standard model price.

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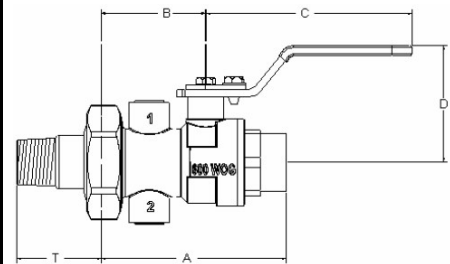


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Section: Components
Bulletin-MB-MB-1216.05

Model BB Union End Ball Valve is offers shutoff and throttling. The position indicating Memory Stop provides quick and easy flow setting with a single screw adjustment. The ball valve has a chrome plated ball, Teflon seats, a blow-out proof stem with double EPDM O-ring seals and dual plugged accessory ports. The union has an EPDM O-ring seal and tailpiece available in MNPT, FNPT, SWT and Press End connections.



SPECIFICATIONS	
Pressure Ratings:	600 PSI (4140 kPa)
Temperature Ratings:	250°F (121°C)
Body Material:	Forged Brass
End Connections:	Fixed End: DZR Brass - SWT & FNPT Brass - Press End Union End: Brass - SWT, FNPT, MNPT & Press End
Seals:	EPDM
Ball:	Chrome Plated Brass, full port, 100% positive shut-off. Optional 316 Stainless Steel.
Stem:	Brass. Optional 316 Stainless Steel.
Handle:	Full size Zinc Plated lever with Vinyl Grip
Memory Stop:	Zinc Plated Steel with position indicator
Available Options:	"PTV" combination PT & Air Vent, hose end "DV" Drain Valve & Port Extensions



NOMINAL DIMENSIONS & WEIGHTS												
MODEL	SIZE		Cv*		A		B	C	D	**T	WEIGHT	
	in	mm			MPT	lbs				kg		
BB1E-050	0.50"	15	6.0	in	3.72	4.08	2.03	3.66	1.61	1.50	1.15	0.52
				mm	94.5	103.6	51.6	93.0	40.9	38.10		
BB1E-075	0.75"	20		in	3.84	4.37	2.03	3.66	1.61	1.50	1.19	0.54
				mm	97.5	111.0	51.6	93.0	40.9	38.10		
BB2E-075	0.75"	20	9.0	in	3.92	4.49	2.03	3.66	2.08	1.56	1.54	0.61
				mm	99.6	114.0	51.6	93.0	52.8	39.70		
BB2E-100	1.00"	25		in	4.13	4.53	2.03	3.66	2.08	1.75	1.70	0.77
				mm	105.0	115.1	51.6	93.0	52.8	44.5		
BB3-125	1.25"	32	52.0	in	5.42	6.41	2.37	5.03	2.26	1.80	3.97	1.80
				mm	137.7	162.8	60.3	127.8	57.4	45.72		
BB3-150	1.50"	40		in	5.42	6.67	2.52	5.65	2.26	1.80	4.12	1.87
				mm	137.7	169.3	64.0	143.6	57.4	45.72		
BB4-200	2.00"	50	96.0	in	5.03	5.82	2.90	5.66	2.83	1.98	5.68	2.58
				mm	127.8	148.8	73.7	143.8	71.9	50.17		

* Cv values are for the body only.

** Please reference the tailpiece data sheet #Bulletin-MB-TP for other sizes and connections.

Dimensions not for construction purposes unless certified by factory.

STANDARD COMPONENTS		
	MS	Memory stop with position indicator, zinc coated steel.
Please reference data sheet #Bulletin-MB-Accessories for optional accessories.		

Optional features and accessories available for this Macon product are an extra charge, and not included in the standard model price.

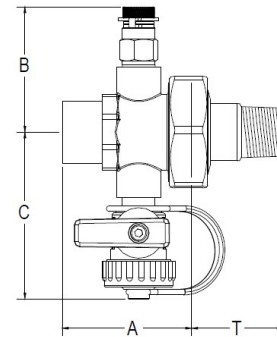
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Section: Components
Bulletin-MB-BB-0915.03

SHUT OFF
VALVES

Model US Union offers numerous end connections pressure/temperature measurement and drain. The union has an EPDM O-ring seal and tailpiece available in MNPT, FNPT, SWT and Press End connections. Standard features include Pressure/Temperature Port and Hose End Drain Valve.



SPECIFICATIONS	
Pressure Ratings:	600 PSI (4140 kPa)
Temperature Ratings:	250°F (121°C)
Body Material:	Forged Brass
End Connections:	Brass - Fixed End: SWT, FNPT & Press End Union End: SWT, FNPT, MNPT & Press End
Seals:	EPDM
Available Options:	"PTV" combination PT & Air Vent and Port Extensions

NOMINAL DIMENSIONS & WEIGHTS											
MODEL	SIZE		A			B	C	*T MNPT	WEIGHT		
	in	mm	FNPT	MNPT	SWT				lbs	kg	
US-038	0.375"	10	in	N/A	1.86	2.52	1.83	0.75	0.94	0.43	
			mm	N/A	47.29	64.00	46.48	19.05			
US-050	0.50"	15	in	1.90	2.25	1.88	2.52	1.50	1.04	0.49	
			mm	48.26	57.23	47.75	64.00	38.10			
US-075	0.75" R	20R	in	1.98	2.19	2.12	2.75	1.55	0.97	0.44	
			mm	50.29	55.65	53.85	69.85	39.37			
US-100	1.00"	25	in	2.15	N/A	2.28	2.75	1.75	1.39	0.69	
			mm	54.61	N/A	57.91	69.85	44.45			
US-125	1.25"	32	in	2.39	N/A	2.56	3.11	1.80	2.48	1.18	
			mm	60.71	N/A	65.02	78.99	45.72			
US-150	1.50"	40	in	2.39	N/A	2.69	3.11	1.80	2.79	1.33	
			mm	60.71	N/A	68.32	78.99	45.72			
US-200	2.00"	50	in	2.49	N/A	3.03	3.43	1.98	3.77	1.82	
			mm	63.25	N/A	76.96	87.12	50.29			

* Please reference the tailpiece data sheet #Bulletin-MB-TP for other sizes and connections.

Dimensions not for construction purposes unless certified by factory.

STANDARD COMPONENTS

	PT	Pressure/Temperature test port with brass body, dual durometer EPDM core, threaded 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) and 275°F (135°C)
	DV	Drain valve with forged brass body, chrome plated ball, Teflon seats, double EPDM O-ring stem seals, aluminum handle, 3/4" hose connection with cap and plastic retainer strap. Rated to 600 PSI (4140 kPa) WOG and 250°F (121°C)

Please reference data sheet #Bulletin-MB-Accessories for optional accessories.

Optional features and accessories available for this Macon product are an extra charge, and not included in the standard model price.

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