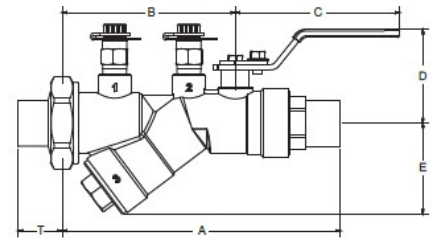


Model AB Automatic Balancing Valve is a combination ball valve, automatic flow control device and union. The removable flow cartridge is factory set to automatically limit the GPM to within +5% of the specified flow. The ball valve has a chrome plated ball, Teflon seats and a blowout proof stem with double EPDM O-ring seals. The union has an EPDM O-ring seal and tailpiece available in MNPT, FNPT, and SWT end connections. Standard features include Memory Stop and Dual Pressure / Temperature Ports.



AUTOMATIC

SPECIFICATIONS

Pressure Ratings:	600 PSI (4140 kPa)
Temperature Ratings:	250°F (121°C)
Accuracy:	± 5% 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 Cartridge:	0.50" to 1.50" - Ultrason® Composite 1.50" to 2" - Stainless Steel
Seals:	EPDM
Ball:	Chrome Plated Brass, 100% positive shut off. <i>Optional 316 Stainless Steel.</i>
Stem:	Brass. <i>Optional 316 Stainless Steel.</i>
Handle:	Full size Zinc Plated lever w/Vinyl Grip
Available Options:	"PTV" combination PT & Air Vent, DV hose end Drain Valve & Extensions.

NOMINAL DIMENSIONS & WEIGHTS

MODEL	SIZE		Cv*		A		B	C	D	E	**T SWT	Flow Range	WEIGHT	
	in	mm			FNPT	SWT							lbs	kg
AB1e-050	0.50"	15	5.5	in	5.28	5.64	3.59	1.97	1.61	1.91	0.83	0.35 to 5.0 GPM	1.78	0.81
AB1e-075	0.75"	20		mm	134.10	143.30	91.20	50.10	40.90	48.50	21.08		1.83	0.83
				in	5.41	5.92	3.59	1.97	1.61	1.91	0.98		1.97	0.89
				mm	137.40	150.40	91.20	50.10	40.90	48.50	24.89			
				in	5.75	6.21	3.59	1.97	1.61	1.91	0.92			
AB1e-100	1.00"	25		mm	146.10	157.70	91.20	50.10	40.90	48.50	23.37			
AB2e-050	0.50"	15	7.0	in	5.71	5.95	3.86	3.66	2.08	2.02	0.83	0.35 to 10.0 GPM	2.09	0.95
AB2e-075	0.75"	20		mm	145.16	151.16	98.04	92.99	52.83	51.33	21.08		2.09	0.95
				in	5.74	6.20	3.86	3.66	2.08	2.02	0.88		5.05	2.29
				mm	146.02	157.48	98.04	92.99	52.83	51.33	22.35			
				in	5.96	6.36	3.86	3.66	2.08	2.02	0.92			
AB2e-100	1.00"	25		mm	151.51	161.54	98.04	92.99	52.83	51.33	23.37		5.05	2.29
				in	6.14	6.69	3.86	3.66	2.08	2.02	1.43		5.05	2.29
AB2e-125	1.25"	32		mm	155.96	169.93	98.04	92.99	52.83	51.33	36.32			
AB3-100	1.00"	25	25.0	in	6.98	7.18	5.38	5.03	2.44	3.61	1.41	5.0 to 21.0 GPM	5.05	2.29
AB3-125	1.25"	32		mm	177.29	182.37	136.65	127.76	61.98	91.69	35.81		5.17	2.35
				in	7.06	7.24	5.38	5.03	2.44	3.61	1.43		5.17	2.35
				mm	179.32	183.90	136.65	127.76	61.98	91.69	36.32			
				in	7.06	7.37	5.38	5.03	2.44	3.61	1.17			
AB3-150	1.50"	40		mm	179.32	187.20	136.65	127.76	61.98	91.69	29.72			
AB4-150	1.50"	40	68.0	in	9.59	9.91	7.44	5.66	2.83	3.91	1.17	11.0 to 70.0 GPM	8.63	3.91
AB4-200	2.00"	50		mm	249.60	251.70	189.00	143.60	71.90	99.50	29.72		8.65	3.92
				in	9.59	10.35	7.44	5.66	2.83	3.92	1.50			
				mm	249.60	262.89	189.00	143.60	71.90	99.57	38.10			

* Cv values are for the body only without the cartridge inside.

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

Dimensions not for construction purposes unless certified by factory.

Selection Chart - Model AB - 0.50" to 2.00"

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)
	MS	Memory stop with position indicator, zinc coated steel.

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

AUTOMATIC

Model AB Automatic Balancing Valve 0.50" - 2.00"

Flow GPM	2-32 PSID				Flow GPM	2-32 PSID	
	AB1e-	AB2e-	AB3-	AB4-		AB3-	AB4-
	050 075 100	050 075 100 125	100 125 150	150 200		100 125 150	150 200
0.35	x	x			16.00	x	x
0.50	x	x			17.00	x	x
0.66	x	x			18.00	x	x
0.75	x	x			19.00	x	x
0.88	x	x			20.00	x	x
1.00	x	x			21.00	x	x
1.10	x	x			22.00		x
1.30	x	x			24.00		x
1.50	x	x			26.00		x
1.75	x	x			28.00		x
2.00	x	x			30.00		x
2.20	x	x			32.00		x
2.50	x	x			34.00		x
2.65	x	x			36.00		x
3.00	x	x			38.00		x
3.50	x	x			40.00		x
4.00	x	x			42.00		x
4.50	x	x			44.00		x
5.00	x	x	x		45.00		x
6.00		x	x		48.00		x
7.00		x	x		50.00		x
8.00		x	x		52.00		x
9.00		x	x		5 - 60 PSID		
10.00		x	x		54.00		x
11.00			x	x	56.00		x
12.00			x	x	58.00		x
13.00			x	x	60.00		x
14.00			x	x	62.00		x
15.00			x	x	64.00		x
16.00*			x	x	66.00		x
* AB3 and AB4 Flow GPM continues at top of last two columns. NOTE: Lower flows can be used w/adaptor in larger sizes.					68.00		x
					70.00		x

