

Valve Package (Model # XXS-AB)

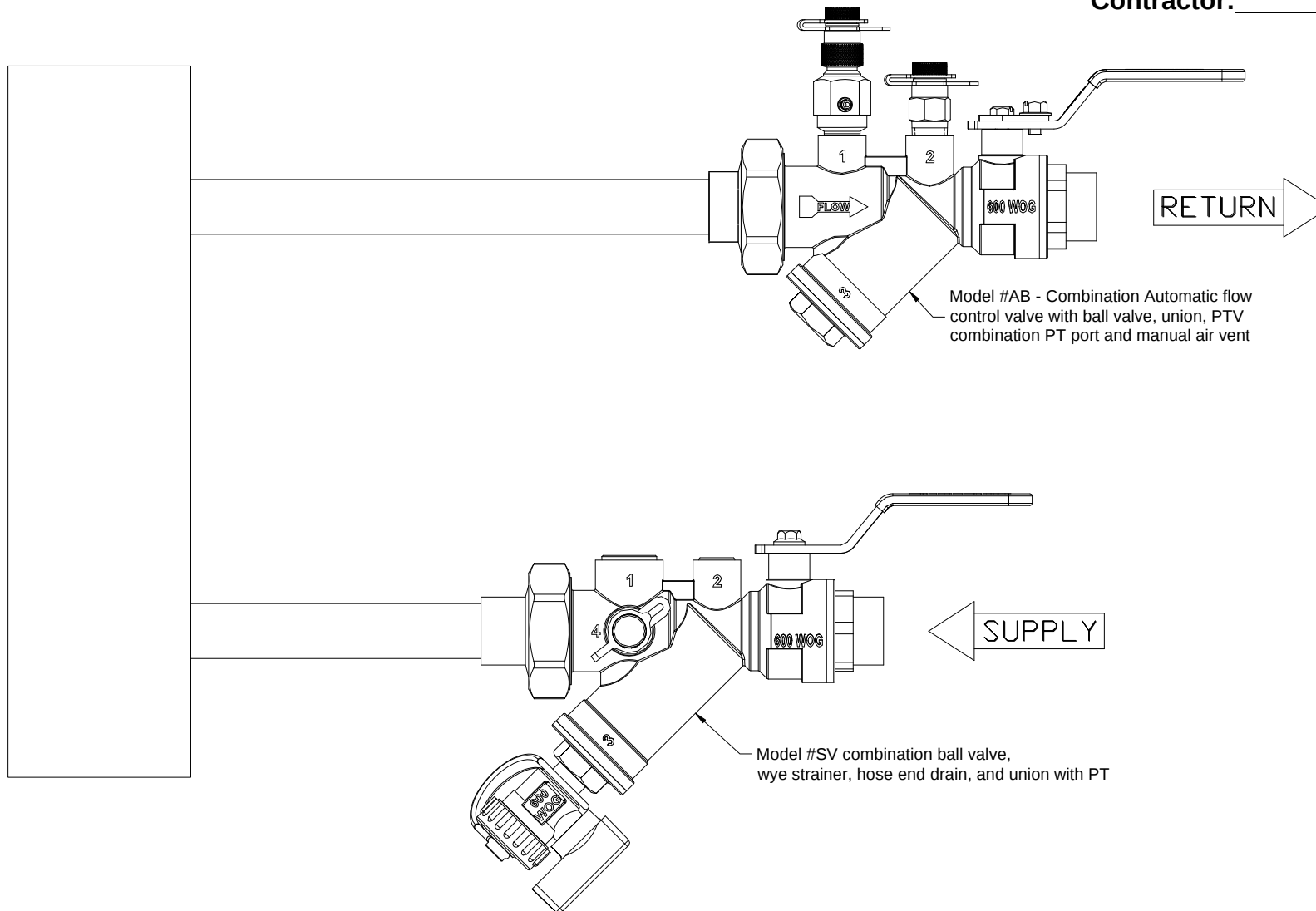
Typical For:

Job Name: _____

Location: _____

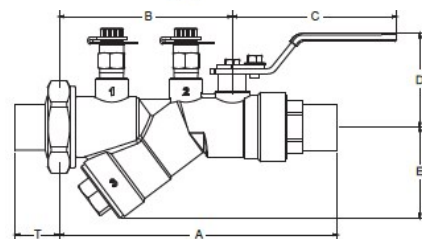
Engineer: _____

Contractor: _____



Submitted By:
Tunstall Corporation
118 Exchange Street
Chicopee, MA 01013
Phone: 413-594-8695
Fax: 413-598-8109

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:	Brass - Fixed End: SWT, FNPT & Press-End Union End: SWT, FNPT, MNPT & Press-End
Flow Cartridge: 1/2" to 1-1/2" 2"	Ultrason® Composite Stainless Steel
Seals:	EPDM
Ball:	Chrome Plated Brass, full port, 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			A		B	C	D	E	*T SWT	Flow Range	WEIGHT	
	in	mm		FNPT	SWT							lbs	kg
AB1e-050	0.50"	15	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
			mm	134.10	143.30	91.20	50.10	40.90	48.50	21.08			
AB1e-075	0.75"	20	in	5.41	5.92	3.59	1.97	1.61	1.91	0.98		1.83	0.83
			mm	137.40	150.40	91.20	50.10	40.90	48.50	24.89			
AB1e-100	1.00"	25	in	5.75	6.21	3.59	1.97	1.61	1.91	0.92		1.97	0.89
			mm	146.10	157.70	91.20	50.10	40.90	48.50	23.37			
AB2e-050	0.50"	15	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
			mm	145.16	151.16	98.04	92.99	52.83	51.33	21.08			
AB2e-075	0.75"	20	in	5.74	6.20	3.86	3.66	2.08	2.02	0.88		2.09	0.95
			mm	146.02	157.48	98.04	92.99	52.83	51.33	22.35			
AB2e-100	1.00"	25	in	5.96	6.36	3.86	3.66	2.08	2.02	0.92		5.05	2.29
			mm	151.51	161.54	98.04	92.99	52.83	51.33	23.37			
AB2e-125	1.25"	32	in	6.14	6.69	3.86	3.66	2.08	2.02	1.43		5.05	2.29
			mm	155.96	169.93	98.04	92.99	52.83	51.33	36.32			
AB3-100	1.00"	25	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
			mm	177.29	182.37	136.65	127.76	61.98	91.69	35.81			
AB3-125	1.25"	32	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			
AB3-150	1.50"	40	in	7.06	7.37	5.38	5.03	2.44	3.61	1.17		5.17	2.35
			mm	179.32	187.20	136.65	127.76	61.98	91.69	29.72			
AB4-150	1.50"	40	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
			mm	249.60	251.70	189.00	143.60	71.90	99.50	29.72			
AB4-200	2.00"	50	in	9.59	10.35	7.44	5.66	2.83	3.92	1.50		8.65	3.92
			mm	249.60	262.89	189.00	143.60	71.90	99.57	38.10			

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

Dimensions not for construction purposes unless certified by factory.

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

www.maconbalancing.com



Tunstall Corporation
118 Exchange Street · Chicopee, MA 01013
Phone (413) 594-8695 · Fax (413) 598-8109
Section: Components
Bulletin-MB-AB-0915.02

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

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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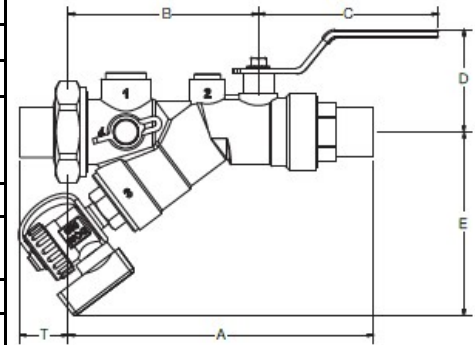
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Section: *Components* Bulletin-MB-AB-0915.02

Model SV is a combination ball valve, wye strainer and union. The 20 mesh stainless steel strainer is removable for cleaning and inspection. The ball valve has a chrome plated ball with Teflon seats, 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 Pressure/Temperature Port, Hose End Drain Valve and plugged Bypass Port.



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 w/Vinyl Grip
Available Options:	"PTV" combination PT & Air Vent, Automatic Air Vent, Handle and Port Extensions



NOMINAL DIMENSIONS & WEIGHTS																	
MODEL	SIZE		Cv*		A		B	C	D	E	**T SWT	Bypass Port-In	Flow Range	WEIGHT			
	in	mm			FNPT	SWT								lbs	kg		
SV1e-050	0.50"	15	5.5	in	4.74	4.88	2.99	2.33	1.73	3.53	0.83	.50	0.35 to 5.0 GPM	1.90	0.86		
				mm	120.60	124.05	79.95	59.26	43.94	89.87	21.08			2.67	1.21		
SV1e-075	0.75"	20		in	4.77	5.22	2.99	2.33	1.73	3.53	0.98			2.02	0.92		
				mm	121.36	132.66	79.95	59.26	43.94	89.87	24.89						
SV1e-100	1.00"	25		in	4.91	5.60	2.99	2.33	1.73	3.53	0.98					2.02	0.92
				mm	124.79	142.27	79.95	59.26	43.94	89.87	24.89						
SV2e-050	0.50"	15	7.0	in	5.71	5.95	3.86	3.66	2.08	3.72	0.92	.75	0.35 to 13.0 GPM	2.57	1.17		
				mm	145.24	151.33	98.04	93.01	52.83	94.64	23.37			2.61	1.18		
SV2e-075	0.75"	20		in	5.75	6.20	3.86	3.66	2.08	3.72	1.43			2.69	1.22		
				mm	146.10	157.56	98.04	93.01	52.83	94.64	36.32						
SV2e-100	1.00"	25		in	5.96	6.36	3.86	3.66	2.08	3.72	1.17					2.92	1.32
				mm	151.59	161.62	98.04	93.01	52.83	94.64	29.72						
SV2e-125	1.25"	32		in	6.14	6.69	3.86	3.66	2.08	3.72	1.50			2.92	1.32		
				mm	156.03	170.00	98.04	93.01	52.83	94.64	38.10						
SV3-100	1.00"	25	25.0	in	8.60	9.44	5.62	5.03	2.26	4.78	1.41	.75	0.35 to 21.0 GPM	4.54	2.06		
				mm	218.40	239.80	142.90	127.76	57.40	121.40	35.81			4.54	2.06		
SV3-125	1.25"	32		in	8.67	9.66	5.62	5.03	2.26	4.78	1.43			4.44	2.01		
				mm	220.10	245.30	142.90	127.76	57.40	121.40	36.32						
SV3-150	1.50"	40		in	8.67	9.91	5.62	5.03	2.26	4.78	1.17					4.44	2.01
				mm	220.10	251.70	142.90	127.76	57.40	121.40	29.71						

Components - Model SV - 0.50" to 2.00"

NOMINAL DIMENSIONS & WEIGHTS (continued)

MODEL	SIZE		Cv*		A		B	C	D	E	**T SWT	Bypass Port-In	Flow Range	WEIGHT	
	in	mm			FNPT	SWT								lbs	kg
SV4-150	1.50"	40	68.0	in	9.37	9.91	7.44	5.66	2.83	5.31	1.59	1.25	22.0 to 70.0 GPM	8.72	3.96
				mm	238.00	251.71	188.98	143.76	71.88	134.87	40.38				
SV4-200	2.00"	50		in	9.56	10.35	7.44	5.66	2.83	5.31	1.50			9.42	4.27
				mm	232.16	262.89	188.98	143.76	71.88	134.87	38.10				

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

** 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.

STRAINERS