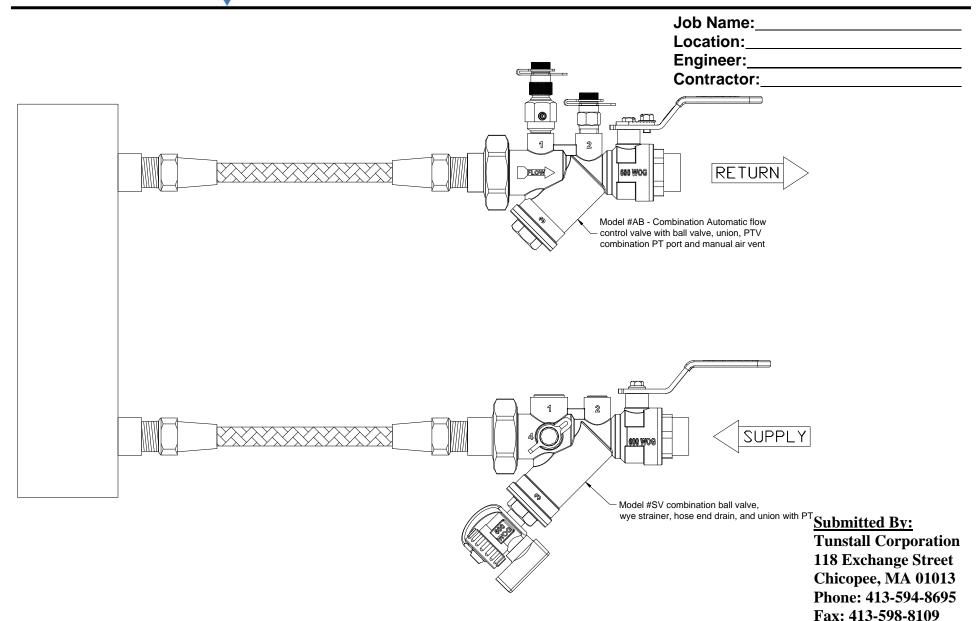


Valve Package (Model # XXS-AB-FLEX)

Typical For:





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.

600 PSI (4140 kPa)
250°F (121°C)
± 5% of flow rate
Forged Brass
Brass - Fixed End: SWT, FNPT & Press-End Union End: SWT, FNPT, MNPT & Press-End
Ultrason® Composite
Stainless Steel
EPDM
Chrome Plated Brass, full port, 100% positive shut



Seals:	EPDM	A—————————————————————————————————————						
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, DV hose end Drain Valve & Extensions.							

NOMINA	L DIM	ENSI	ONS &	WEIGH	ΓS								
MODEL	SIZ	ZE		A	1	В	С	D	E	*T	Flow	WEI	GHT
MODEL	in	mm		FNPT	SWT	Ь	C	D	E	SWT	Range	lbs	kg
AB1e-050	0.50"	15	in	5.28	5.64	3.59	1.97	1.61	1.91	0.83		1.78	0.81
AD10-030	0.50	13	mm	134.10	143.30	91.20	50.10	40.90	48.50	21.08	0.35	1.76	0.61
AB1e-075	0.75"	20	in	5.41	5.92	3.59	1.97	1.61	1.91	0.98	to	1.83	0.83
ADIC-075	0.73	20	mm	137.40	150.40	91.20	50.10	40.90	48.50	24.89	5.0	1.65	0.83
AB1e-100	1.00"	25	in	5.75	6.21	3.59	1.97	1.61	1.91	0.92	GPM	1.97	0.89
AD16-100	1.00	23	mm	146.10	157.70	91.20	50.10	40.90	48.50	23.37		1.97	0.69
											1		1
AB2e-050	0.50"	15	in	5.71	5.95	3.86	3.66	2.08	2.02	0.83		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	0.35	2.09	0.95
			mm	146.02	157.48	98.04	92.99	52.83	51.33	22.35	to		
AB2e-100	1.00"	25	in	5.96	6.36	3.86	3.66	2.08	2.02	0.92	10.0	5.05	2.29
			mm	151.51	161.54	98.04	92.99	52.83	51.33	23.37	GPM		_,_,
AB2e-125	1.25"	32	in	6.14	6.69	3.86	3.66	2.08	2.02	1.43		5.05	2.29
11020 120	1.20		mm	155.96	169.93	98.04	92.99	52.83	51.33	36.32		0.00	
		l	in	6.98	7.18	5.38	5.03	2.44	3.61	1.41	l		
AB3-100	1.00"	25	mm	177.29	182.37	136.65	127.76	61.98	91.69	35.81		5.05	2.29
			in	7.06	7.24	5.38	5.03	2.44	3.61	1.43	5.0		
AB3-125	1.25"	32		179.32	183.90	136.65	127.76	61.98	91.69	36.32	to 21.0	5.17	2.35
			mm in	7.06	7.37	5.38	5.03	2.44	3.61	1.17	GPM		
AB3-150	1.50"	40		179.32	187.20	136.65	127.76	61.98	91.69	29.72	01111	5.17	2.35
			mm	1/9.32	167.20	130.03	127.70	01.98	91.09	29.12			
	4.50::	40	in	9.59	9.91	7.44	5.66	2.83	3.91	1.17	11.0	0.62	
AB4-150	1.50"	40	mm	249.60	251.70	189.00	143.60	71.90	99.50	29.72	to	8.63	3.91
	• • • • •		in	9.59	10.35	7.44	5.66	2.83	3.92	1.50	70.0	0.65	2.00
AB4-200	2.00"	50	mm	249.60	262.89	189.00	143.60	71.90	99.57	38.10	GPM	8.65	3.92

^{*} 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 d	lata she	eet #Bulletin-MB-Accessories for optional accessories.						

			0.50"	tic Balancing - 2.00"	g Valve		
		2-32 F	PSID			2-32	PSID
	AB1e-	AB2e-	AB3-	AB4-		AB3-	AB4-
	050	050	100	150		100	150
	075	075	125	200		125	200
Flow	100	100	150		Flow	150	
GPM		125			GPM		
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 AB	4 Flow GPM co	ntinues at top of	last two colum	ns.	68.00		X
		ed w/adaptor in 1			70.00		Х





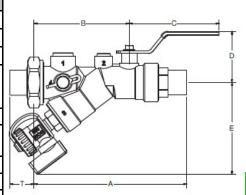
Model SV 0.50" to 2.00" Submittal Data

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. <i>Optional 316 Stainless Steel</i> .
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



NOMIN	NOMINAL DIMENSIONS & WEIGHTS														
MODEL	SIZ	ZE	Cv*		A	1	В	C	D	E	**T	Bypass	Flow	WEI	GHT
MODEL	in	mm	CV"		FNPT	SWT	D	C	ע	Ŀ	SWT	Port-In	Range	lbs	kg
SV1e-050	0.50"	15		in	4.74	4.88	2.99	2.33	1.73	3.53	0.83			1.90	0.86
S v 16-030	0.30	13		mm	120.60	124.05	79.95	59.26	43.94	89.87	21.08		0.35	1.90	0.80
SV1e-075	0.75"	20	5.5	in	4.77	5.22	2.99	2.33	1.73	3.53	0.98	.50	to	2.67	1.21
3 V 1C-073	0.73	20	3.3	mm	121.36	132.66	79.95	59.26	43.94	89.87	24.89	.50	5.0	2.07	1.21
SV1e-100	1.00"	25	1	in	4.91	5.60	2.99	2.33	1.73	3.53	0.98		GPM	2.02	0.92
3 V 16-100	1.00	23		mm	124.79	142.27	79.95	59.26	43.94	89.87	24.89			2.02	0.92
			•												
SV2e-050	0.50"	15		in	5.71	5.95	3.86	3.66	2.08	3.72	0.92			2.57	1.17
5120 000	0.50	10		mm	145.24	151.33	98.04	93.01	52.83	94.64	23.37			2.57	1.17
SV2e-075	0.75"	20		in	5.75	6.20	3.86	3.66	2.08	3.72	1.43		0.35	2.61	1.18
5120 070	0.75	20	7.0	mm	146.10	157.56	98.04	93.01	52.83	94.64	36.32	.75	to	2.01	1.10
SV2e-100	1 00"	25	7.0	in	5.96	6.36	3.86	3.66	2.08	3.72	1.17	.,,	13.0	2.69	1.22
5 120 100	1.00	23		mm	151.59	161.62	98.04	93.01	52.83	94.64	29.72		GPM	2.07	1.22
SV2e-125	1 25"	32		in	6.14	6.69	3.86	3.66	2.08	3.72	1.50			2.92	1.32
5 1 2 6 1 2 3	1.23	32		mm	156.03	170.00	98.04	93.01	52.83	94.64	38.10			2.72	1.52
	ī	1	T		0.60	0.44	7.60	7.00	2.26	4.50	4 44	Ī	· ·		ī
SV3-100	1.00"	25		in	8.60	9.44	5.62	5.03	2.26	4.78	1.41	4		4.54	2.06
				mm	218.40	239.80	142.90	127.76	57.40	121.40	35.81		0.35		
SV3-125	1.25"	32	25.0	in	8.67	9.66	5.62	5.03	2.26	4.78	1.43	.75	to	4.54	2.06
				mm	220.10	245.30	142.90	127.76	57.40	121.40	36.32	4	21.0 GPM		
SV3-150	1.50"	40		in	8.67	9.91	5.62	5.03	2.26	4.78	1.17	4	GPM	4.44	2.01
	2.50	. 0		mm	220.10	251.70	142.90	127.76	57.40	121.40	29.71				01



Components - Model SV - 0.50" to 2.00"

NOMIN	NOMINAL DIMENSIONS & WEIGHTS (continued)														
MODEL	SIZ	ZE	Cv*		A	1	В	C	D	E	**T	Bypass	Flow	WEI	GHT
MODEL	in	mm	CV		FNPT	SWT	Б	Ù	D	II.	SWT	Port-In	Range	lbs	kg
SV4-150	1.50"	40		in	9.37	9.91	7.44	5.66	2.83	5.31	1.59		22.0	8.72	3.96
5 V 4 -130	1.50	40	68.0	mm	238.00	251.71	188.98	143.76	71.88	134.87	40.38	1.25	to	0.72	3.90
SV4-200	2.00"	50	08.0	in	9.56	10.35	7.44	5.66	2.83	5.31	1.50	1.23	70.0	9.42	4.27
S V 4-200	2.00	30		mm	232.16	262.89	188.98	143.76	71.88	134.87	38.10		GPM	9.42	4.27

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

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.



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



Flexible Hose Connectors

Submittal Data

These hoses have been specially designed for operating conditions in heating and air conditioning, the elastomer is not sensitive to Glycol or water treatment products.

Each hose is made up of several quality components and the special crimping on the ferrule under strict quality control gives this hose security against any leakage.

The special EPDM core meets a fully defined specification: Shore hardness, resistance to ageing, mechanical resistance (elasticity, tensile fracture, stretching), ability to accept chemical agents in contact with the elastomer and nontoxic. ASTM Fire rated hoses meet 25/50 flammability and smoke development classification requirements of codes and specifications when tested by ASTM E 84 method.

HOSES ARE DESIGNED FOR HYDRONIC HEATING/COOLING, NOT FOR GAS.



Temperature Ratings: All Sizes: 5°F to 230°F

Less than 41°F with use of

Glycol additive **External Braiding:** 304 Stainless Steel Crimping Ferrules: 304 Stainless Steel

Core: **EPDM**

End Connections: Brass - CW614N

• 1/2" - 1" MNPT x Male Cone x

Hose Adaptor

(Gasket Less Connection) • 1-1/4" - 2" MNPT x BA-U Gasket & Hose Adaptor Male NPT, Copper SWT

Adaptor Connections:

Union Nut:

Tailpiece: Gasket (1-1/4" & 2"): Nickel Plated Brass - CW614N Brass - CW614N

BA-U Fiber





 ON INSTALLATION : Avoid absolutely any tension due to stretching, twisting or torsion during the course of tightening the connectors.

- A. Install and tighten the fixed male connector (if applicable)
- B. Install and tighten the union adaptor (if applicable)
- C. Install and tighten the swivel nut
- Use two spanners in order to screw in the union: One to hold the hexagon of the adaptor. The other to tighten the nut at the same time.

IMPORTANT - Do not re-screw the fixed connector or adaptor after tightening of the swivel nut; this will cause torsion on the flexible hose, with a risk of rapid deterioration. On removal, take the same precautions. If the flexible incorporates two fixed connectors, at least one must be installed on a counter-part fitted with a screw connector.

*BEFORE INSTALLING REFER TO THE INSTAL-LATION & OPERATION INSTRUCTIONS FOR COMPLETE DETAILS. WARNING: FAILURE TO FOLLOW THE INSTALLATION & OPERATION INSTRUCTIONS COULD RESULT IN IMPROPER INSTALLATION.

Solid Male Tapered Thread	Stainless Steel	BA-U Fiber Gesket 1-1/4" - 2" Only	P.
	p		Male Cone Addapter NPSM to Male NPT
Stainless Steel (AISI 304) Criping Ferrules	Formulated EPDM Inner Core	Female Swivel Cone Seat - NPSM Thread Nicid Plated	Sweet Cone Addepter NPSM to Sweat

NOMINAL DIMENSIONS										
SIZE		MODEL #								
SIZE	HCA	HCB	HCC	HCD	HCE	HCF				
12" LENGTH	1/2"	3/4"	1"	N/A	N/A	N/A				
18" LENGTH	1/2"	3/4"	1"	1-1/4"	1-1/2"	N/A				
24" LENGTH	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"				
36" LENGTH	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"				
Cv *										
SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"				
12" LENGTH	3.3	11.0	20.9	N/A	N/A	N/A				
18" LENGTH	3.2	10.7	20.3	37.9	64.4	N/A				
24" LENGTH	3.1	9.9	19.5	36.9	61.0	110.7				
36" LENGTH	3.0	9.3	18.2	34.7	55.0	100.8				
* Note the Cv fac	tor is the f	low rate, i	n GPM, th	rough the	hose at 1 P	SID.				

Max. Operating & Burst Pressure Rating

Size	Operating (PSI)	Burst (PSI)
1/2"	375	1500
3/1"	300	1200
1"	225	900
1-1/4"	200	800
1-1/2"	175	600
2"	150	500

Typical Specifications:

REP:

Furnish and install where indicated on plans Flexible Connectors as provided by Macon Balancing. Hoses shall be temperature rated: 5°F to 230°F. Pressure rated from 375 PSI to 150 PSI based on hose diameter. Constructed specifically for operating conditions in heating and air conditioning with solid brass connectors, stainless steel ferrules, AISI 304 stainless steel braid, and formulated EPDM inner core design to not be sensitive to Glycol or water treatment products. Hoses shall meet 25/50 flammability and smoke development classification requirements of codes and specifications when tested by ASTM E 84 method. **ENGINEER** IOB:

Optional features and accessories available for this Macon product are an extra charge, and not included

in the standard model price. www.maconbalancing.com



CONTRACTOR