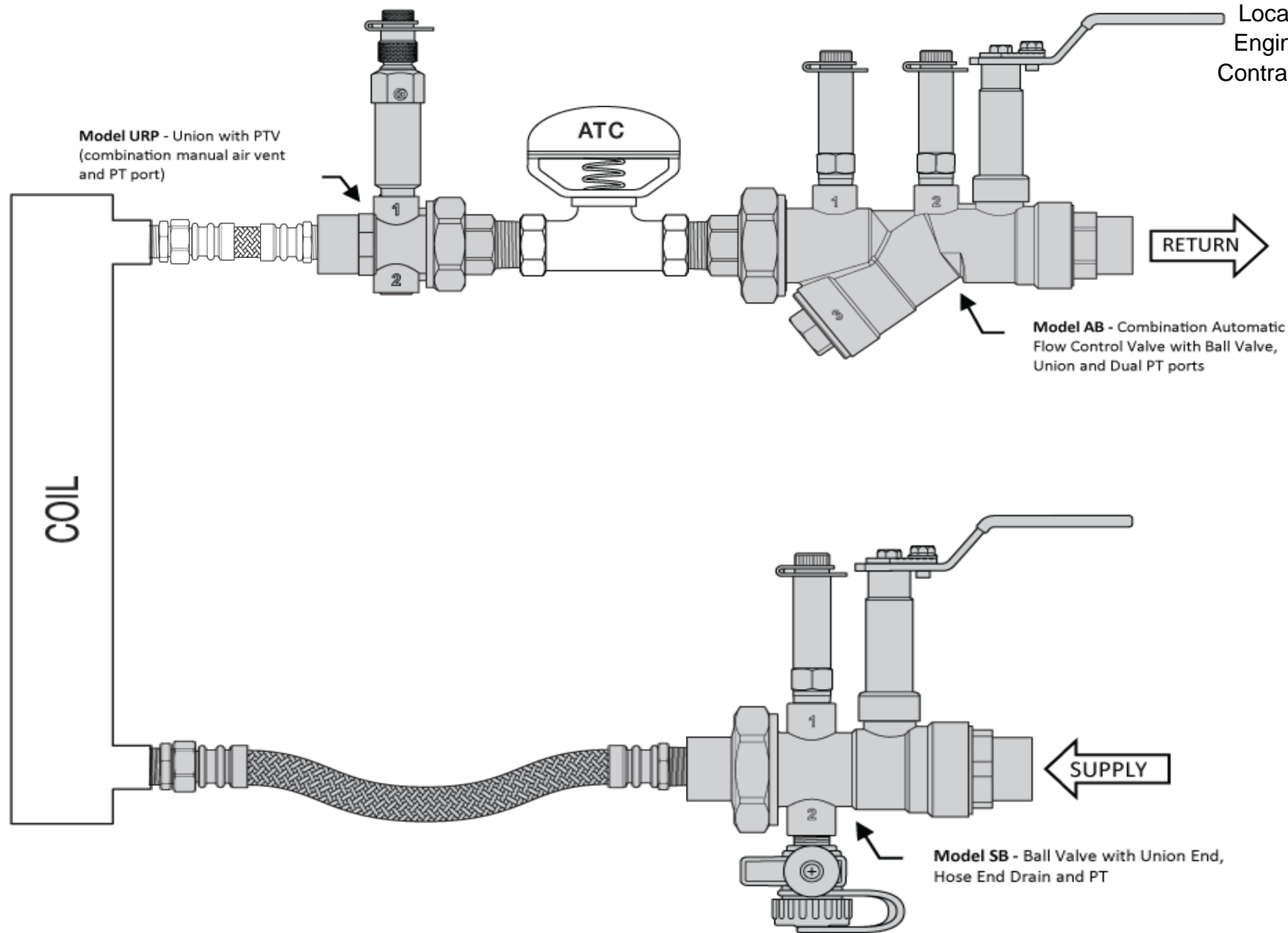


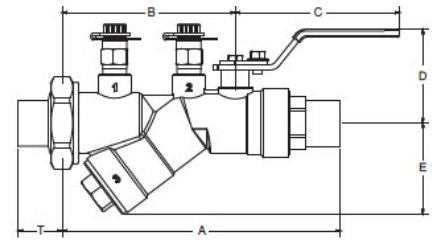
Description: MODEL # 2RDAB-E with Extensions and Flexible Hose (TYP)

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



Submitted By:
Tunstall Corporation
 118 Exchange St
 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:	Fixed End: DZR Brass - SWT & FNPT Brass - Press-End Union End: Brass - SWT, FNPT, MNPT & Press-End
Flow Cartridge:	1/2" to 1-1/2" - Ultrason® Composite 2" - 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		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	
				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	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	
				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	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	
				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	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	
				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				

* 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.

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-AB-0915.06

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"

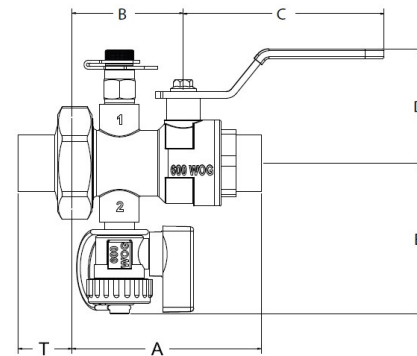
Flow GPM	2-32 PSID				Flow GPM	2-32 PSID	
	AB1e-	AB2e-	AB3-	AB4-		AB3-	AB4-
	050 075 100	050 075 100 125	100 125 150	150 200		100 125 150	150 200
0.35	x	x			16.00	x	x
0.50	x	x			17.00	x	x
0.66	x	x			18.00	x	x
0.75	x	x			19.00	x	x
0.88	x	x			20.00	x	x
1.00	x	x			21.00	x	x
1.10	x	x			22.00		x
1.30	x	x			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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Section: Components Bulletin-MB-AB-0915.06

Model SB Union End Ball Valve offers positive shut-off, pressure/temperature measurement and drain. 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, 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
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 with Vinyl Grip
Available Options:	"PTV" combination PT & Air Vent

NOMINAL DIMENSIONS & WEIGHTS												
MODEL	SIZE			A		B	C	D	E	*T MPT	WEIGHT	
	in	mm		FNPT	SWT						lbs	kg
SB1E-050	0.50"	15	in	3.72	4.08	2.03	3.66	1.61	2.53	1.50	1.51	0.68
			mm	94.5	103.6	51.6	93.0	40.9	64.3	38.1		
SB1E-075	0.75" R	20	in	3.84	4.37	2.03	3.66	1.61	2.53	1.50	1.55	0.70
			mm	97.5	111.0	51.6	93.0	40.9	64.3	38.1		
SB2E-075	0.75"	20	in	3.92	4.49	2.03	3.66	2.08	2.74	1.56	1.58	0.72
			mm	99.6	114.0	51.6	93.0	52.8	69.6	39.7		
SBBE-100	1.00"	25	in	4.13	4.53	2.03	3.66	2.08	2.74	1.75	2.06	0.93
			mm	105.0	115.1	51.6	93.0	52.8	69.6	44.5		
SB3-125	1.25"	32	in	5.42	6.41	2.37	5.03	2.26	3.12	1.80	4.33	1.96
			mm	137.7	162.8	60.3	127.8	57.4	79.3	45.7		
SB3-150	1.50"	40	in	5.42	6.67	2.52	5.65	2.26	3.12	1.80	4.48	2.03
			mm	137.7	169.3	64.0	143.6	57.4	79.3	45.7		
SB4-200	2.00"	50	in	5.03	5.82	2.90	5.66	2.83	3.51	1.98	6.04	2.74
			mm	127.8	148.8	73.7	143.8	71.9	89.2	50.2		

* 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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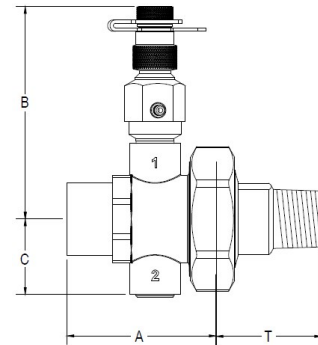


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Section: Components Bulletin-MB-SB-0915.02

SHUT OFF
VALVES

Model URP Union offers numerous End Connections pressure/temperature measurement and vent. The union has an EPDM O-ring seal and tailpiece available in MNPT, FNPT, SWT and Press End connections.

Standard features include "PTV" Combination PT and Air Vent.




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:	"DV" Drain Valve

NOMINAL DIMENSIONS & WEIGHTS											
MODEL	SIZE			A			B	C	*T MNPT	WEIGHT	
	in	mm		FNPT	MNPT	SWT				lbs	kg
URP-038	0.375"	10	in	N/A	N/A	1.88	2.78	0.84	N/A	0.76	0.35
			mm	N/A	N/A	47.68	70.61	21.34	N/A		
URP-050	0.50"	15	in	1.90	2.25	1.88	2.78	0.84	1.50	0.86	0.39
			mm	48.26	57.23	47.75	70.25	21.34	38.10		
URP-075	0.75" R	20	in	1.98	2.19	2.12	2.78	0.84	1.55	0.79	0.36
			mm	50.29	55.65	53.85	70.61	21.34	39.37		
URP-100	1.00"	25	in	2.15	N/A	2.28	3.02	1.08	1.75	1.16	0.53
			mm	54.61	N/A	57.91	76.65	27.43	44.72		
URP-125	1.25"	32	in	2.39	N/A	2.56	3.39	1.46	1.80	2.20	1.00
			mm	60.71	N/A	65.02	86.18	37.08	45.72		
URP-150	1.50"	40	in	2.39	N/A	2.69	3.39	1.46	1.80	2.42	1.10
			mm	60.71	N/A	68.32	86.18	37.08	45.72		
URP-200	2.00"	50	in	2.49	N/A	3.03	3.70	1.76	1.98	3.42	1.55
			mm	63.25	N/A	76.96	94.08	44.70	50.17		

* 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

	PTV	Combination manual air vent and pressure/temperature test port with brass body, dual durometer EPDM core, blowout-proof stem, side discharge vent with 1/8" (4mm) hose barb, threaded brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 250 PSI (1725 kPa) and 250°F (121°C)
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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-URP-0915.02

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 non-toxic. 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.**

SPECIFICATIONS



Temperature Ratings:

External Braiding:

Crimping Ferrules:

Core:

End Connections:

Adaptor Connections:

Union Nut:

Tailpiece:

Gasket (1-1/4" & 2"):

All Sizes: 5°F to 230°F

Less than 41°F with use of

Glycol additive

304 Stainless Steel

304 Stainless Steel

EPDM

Brass - CW614N

• 1/2" - 1" MNPT x Male Cone x
Hose Adaptor

(Gasket Less Connection)

• 1-1/4" - 2" MNPT x BA-U

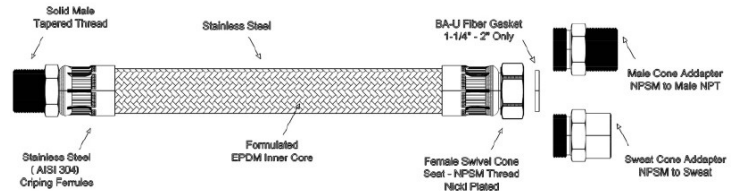
Gasket & Hose Adaptor

Male NPT, Copper SWT

Nickel Plated Brass - CW614N

Brass - CW614N

BA-U Fiber



Specs for Application and Installation

• 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 INSTALLATION & OPERATION INSTRUCTIONS FOR COMPLETE DETAILS. WARNING: FAILURE TO FOLLOW THE INSTALLATION & OPERATION INSTRUCTIONS COULD RESULT IN IMPROPER INSTALLATION.**

NOMINAL DIMENSIONS

SIZE	MODEL #					
	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 factor is the flow rate, in GPM, through the hose at 1 PSID.

Max. Operating & Burst Pressure Rating

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

Typical Specifications:

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.

JOB:

REP:

ENGINEER:

CONTRACTOR:

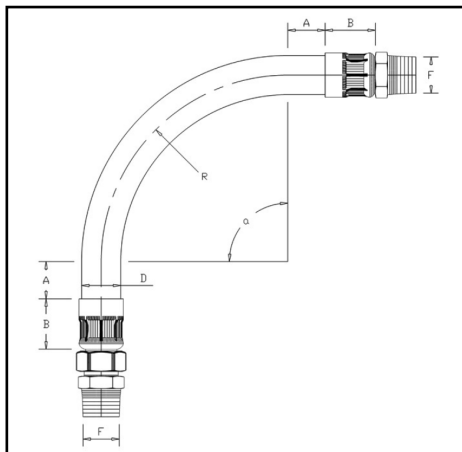
Optional features and accessories available for this Macon product are an extra charge, and not included in the standard model price.

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Section: Components
Bulletin-MB-FH-0915_2

Accessories - Model FH



NOMINAL DIMENSIONS						
F	LENGTH	R _{min}	A _{min}	B	D	CX _{max}
	in	mm	mm	mm	mm	
1/2"	12"	60	40	23	17	89°
	18"	60	40	23	17	180°
	24"	60	40	23	17	180°
	36"	60	40	23	17	180°
3/4"	12"	80	55	35	26	32°
	18"	80	55	35	26	126°
	24"	80	55	35	26	180°
	36"	80	55	35	26	180°
1"	12"	110	65	35	35	5°
	18"	110	65	35	35	75°
	24"	110	65	35	35	142°
	36"	110	65	35	35	180°
1-1/4"	18"	120	100	46	42	30°
	24"	120	100	46	42	92°
	36"	120	100	46	42	180°
1-1/2"	18"	200	140	62	53	5°
	24"	200	140	62	53	27°
	36"	200	140	62	53	104°
2"	24"	280	230	57	63	5°
	36"	280	203	57	63	42°

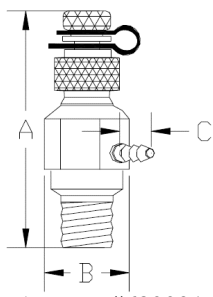
IMPORTANT: Do not re-tighten the fixed end or adaptor after tightening the swivel nut. This will cause tension or torsion and can result in rapid deterioration.

INSPECTION: We recommend a good maintenance practice and periodic inspections, typically when servicing other components at the unit or at the installation site. Check all hoses for small water leaks, residue, or discoloration on the exterior braid and fittings. If a leak is detected, stop service to the unit and replace hose immediately. Do not attempt to repair the hose.

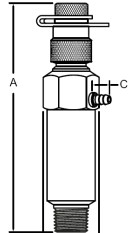
Caution: Introduction of chemicals into the system or unit may cause damage of the inner core of the hose. Consult a water treatment specialist for chemical compatibility before using any chemical additives.

Warning: Hoses are designed for Hydronic heating and cooling service only; not for gas.

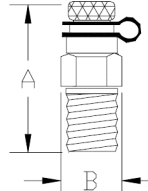
PTV - PRESSURE / TEMPERATURE VENT

 PATENT #6899317	Combination manual air vent and pressure/temperature test port with brass body, dual durometer EPDM core, blowout-proof stem, side discharge vent with 1/8" (4mm) hose barb, threaded brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 250 PSI (1725 kPa) and 250°F (120°C).								
	MODEL	NPT CONN		A	B	C	WRENCH SIZE	WEIGHT	
								lbs	kg
	PTV-025	1/4"	in	1.50	0.84	0.32	3/4"	0.154	0.07
			mm	40	21	9			
	PTV-050	1/2"	in	1.50	0.98	0.32	3/4"	0.225	0.10
mm			0.98	25	9				

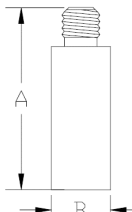
EPTV - EXTENDED PRESSURE / TEMPERATURE VENT

	Extended combination manual air vent and pressure/temperature test port with brass body, dual durometer EPDM core, blowout-proof stem, side discharge vent with 1/8" (4mm) hose barb, threaded brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 250 PSI (1725 kPa) and 250°F (120°C).								
	MODEL	NPT CONN		A	B	C	WRENCH SIZE	WEIGHT	
								lbs	kg
	EPTV-025	1/4"	in	3.60	0.87	0.31	3/4"	0.28	0.12
			mm	91	21	8			

PT - PRESSURE / TEMPERATURE PORT

	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).							
	MODEL	NPT CONN		A	B	WRENCH SIZE	WEIGHT	
							lbs	kg
	PT-025	1/4"	in	1.36	0.65	9/16"	0.06	0.03
			mm	34	16			
	PT-050	1/2"	in	1.36	1.01	7/8"	0.18	0.08
			mm	34	25			

PTE - PTV / PT EXTENDER



Single and Dual Extender for PTV and PT models, used on insulated piping systems or where extended length is desired. The PTE is installed above the PTV or PT core with an O-ring seal. The PTE can be installed in the field without removing the PTV or PT from the piping system. Brass body with EPDM O-ring seal. Rated to 500 PSI (3450 kPa) and 250 ° F (120 ° C).

MODEL		A	B	WEIGHT	
				lbs	kg
PTE-025 One	in	1.59	0.54	0.90	0.04
	mm	41	14		
PTE-025 Two	in	1.59	0.54	0.90	0.04
	mm	41	14		

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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EH - EXTENDED HANDLE



Handle Extension, forged brass stem & collar, for extending existing handle 2".

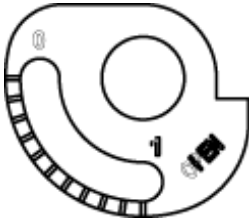
MODEL	FITS
EH-1	1/2", 3/4", & 1" R, AB, BB, MB, SB, SV, 1" SV
EH-2	1" & 1-1/4" AB, BB, MB, SB, 1-1/4" & 1-1/2" SV, AB
EH-3	1-1/2" & 2" BB, MB, SB, 2" SV, AB

SH - SHORT LEVER HANDLE



Short lever valve handle, zinc plated steel.

MS - MEMORY STOP



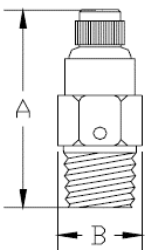
Memory stop, Zinc plated steel with position indicator and position lock screw.
For use with valve handles.

SSBS - STAINLESS STEEL BALL & STEM



316 Stainless Steel Ball & Stem.
Available in 1/2" - 2"

MAV - MANUAL AIR VENT



Manual air vent with brass body, knurled operator with screwdriver slot, blowout-proof stem, and side discharge vent.
Rated to 400 PSI (2760 kPa) and 250°F (120°C).

MODEL	NPT CONN			A	B	WRENCH SIZE	WEIGHT	
							lbs	kg
MAV-025	1/4"	in		1.75	0.625	9/16"	0.80	0.36
		mm		44	16			

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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