



Model AB 0.50" to 2.00" Submittal Data

trol device the GPM to	and un	ion. Th	ie remo		cartridge	e is factory	set to aut	omatically	, limit		.					
				of stem with								The				
				e available								PE				
				ory Stop a								Los				
SPECIFIC			0 1120111				emperatur	0 1 0/101	┓ 🌒		0					
Pressure R	atings:			600 PSI (4140 kPa)										
Temperatu		ngs:		250°F (12	21°C)	,										
Accuracy:		0		\pm 5% of t	/				- *	⁸	<u> </u>	e c	_			
Body Mate				Forged B					_			<i></i>				
End Conne				Ű		SWT EN	DT & Drog	a End		-	2-4	<u> </u>				
	ections:						PT & Pres NPT & Pre									
Flow Cart	ridge: 1	/2" to	1 1/2"				NFI & FIE	SS-Ellu	6	17	уц					
	-	/2 t0 .	1-1/2		Ultrason [®] Composite Stainless Steel											
Seals:	4			EPDM	51001					WV	- A					
Ball:					Diated Bro	cc full por	rt, 100% p	ositivo chi	it off Ont	ional 216	Stainles	s Steel				
Stem:						6 Stainless	· •	USITIVE SIT	a 011. Opi	101111 510	siumes	s sieei.				
Handle:				1			Vinyl Gri									
	Ontion						r Vent, D		Drain Va	Inco & Eng	tonciona					
Available			_			IPI & AI	r vent, D	v nose enc	i Diain va	IVE & EX	tensions.					
NOMINA	1		ONS &	WEIGH		1			-		1					
MODEL	SĽ				A	В	С	D	Е	*T	Flow		IGHT			
	in	mm		FNPT	SWT	2.50	1.07	1.(1	1.01	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	0.8		
			mm	134.10 5.41	143.30 5.92	91.20 3.59	50.10 1.97	40.90	48.50 1.91	21.08 0.98	0.35					
AB1e-075	0.75"	20	in	137.40	150.40	91.20	50.10	40.90	48.50	24.89	to 5.0	1.83	0.8			
			mm in	5.75	6.21	3.59	1.97	1.61	1.91	0.92	GPM					
AB1e-100	1.00"	25	mm	146.10	157.70	91.20	50.10	40.90	48.50	23.37	-	1.97	0.8			
		L	mm	110.10	157.70	91.20	50.10	10.90	10.50	25.51			.			
AB2e-050	0.50"	15	in	5.71	5.95	3.86	3.66	2.08	2.02	0.83		2.09	0.9			
AB2e-050	0.30	15	mm	145.16	151.16	98.04	92.99	52.83	51.33	21.08		2.09	0.9			
AB2e-075	0.75"	20	in	5.74	6.20	3.86	3.66	2.08	2.02	0.88	0.35	2.09	0.9			
AD20-075	0.75	20	mm	146.02	157.48	98.04	92.99	52.83	51.33	22.35	to	2.09	0.9			
AB2e-100	1.00"	25	in	5.96	6.36	3.86	3.66	2.08	2.02	0.92	10.0	5.05	2.2			
AD2C-100	1.00	25	mm	151.51	161.54	98.04	92.99	52.83	51.33	23.37	GPM	5.05	2.2			
AB2e-125	1.25"	32	in	6.14	6.69	3.86	3.66	2.08	2.02	1.43	4	5.05	2.2			
	1.20		mm	155.96	169.93	98.04	92.99	52.83	51.33	36.32		0.00				
	r		in	6.98	7.18	5.38	5.03	2.44	3.61	1.41	T	[T			
AD2 100	1.00"	25	mm	177.29	182.37	136.65	127.76	61.98	91.69	35.81	5.0	5.05	2.2			
AB3-100			in	7.06	7.24	5.38	5.03	2.44	3.61	1.43	5.0 to					
ADJ-100		32	mm	179.32	183.90	136.65	127.76	61.98	91.69	36.32	21.0	5.17	2.3			
	1.25"		in	7.06	7.37	5.38	5.03	2.44	3.61	1.17	GPM		<u> </u>			
AB3-125					187.20	136.65	127.76	61.98	91.69	29.72	1	5.17	2.3			
AB3-125	1.25"	40	mm	1/9.32						_>./#	1		1			
AB3-125		40	mm	179.32	107.20											
AB3-125 AB3-150	1.50"		mm in	9.59	9.91	7.44	5.66	2.83	3.91	1.17	11.0	0 67	2.0			
AB3-100 AB3-125 AB3-150 AB4-150		40 40		-		7.44 189.00	5.66 143.60	2.83 71.90	3.91 99.50	1.17 29.72	11.0 to	8.63	3.9			
AB3-125 AB3-150	1.50"		in	9.59	9.91							8.63 8.65	3.9 3.9			

* 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 C	OMP	ONENTS
-	РТ	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)
G	MS	Memory stop with position indicator, zinc coated steel.
Please reference d	ata she	et #Bulletin-MB-Accessories for optional accessories.

		Model	AB Automa 0.50" -		ng 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	Х	Х			16.00	Х	Х
0.50	Х	Х			17.00	Х	Х
0.66	Х	Х			18.00	Х	Х
0.75	Х	X			19.00	Х	Х
0.88	Х	X			20.00	Х	Х
1.00	Х	Х			21.00	X	Х
1.10	Х	Х			22.00		Х
1.30	Х	Х			24.00		Х
1.50	Х	Х			26.00		Х
1.75	Х	Х			28.00		Х
2.00	Х	Х			30.00		Х
2.20	Х	Х			32.00		Х
2.50	Х	Х			34.00		Х
2.65	х	Х			36.00		Х
3.00	Х	Х			38.00		Х
3.50	х	Х			40.00		Х
4.00	х	Х			42.00		Х
4.50	Х	Х			44.00		Х
5.00	х	Х	Х		45.00		Х
6.00		Х	Х		48.00		Х
7.00		Х	Х		50.00		Х
8.00		Х	Х		52.00		Х
9.00		Х	Х			5 - 60 PSID	
10.00		Х	Х		54.00		Х
11.00			Х	Х	56.00		Х
12.00			Х	Х	58.00		Х
13.00			Х	Х	60.00		Х
14.00			Х	Х	62.00		Х
15.00			х	х	64.00		Х
16.00*			Х	Х	66.00		Х
* AB3 and AB	4 Flow GPM co	ntinues at top of	f last two colum	1S.	68.00		Х
	flows can be use				70.00		Х

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



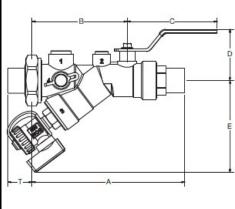
Model SV 0.50" to 2.00" Submittal Data

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



NOMINAL DIMENSIONS & WEIGHTS

NUMIN			2010			-		-			-							
MODEL	SIZ	ΖE	Cv*			4	в	С	D	Е	**T	Bypass	Flow		GHT			
MODEL	in	mm	C.		FNPT	SWT		_			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			
5110 050	0.50	15		mm	120.60	124.05	79.95	59.26	43.94	89.87	21.08		0.35	1.90	0.00			
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			
5110 075	0.75	20	5.5	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		in	4.91	5.60	2.99	2.33	1.73	3.53	0.98		GPM	2.02	0.92			
5110 100	1.00	25		mm	124.79	142.27	79.95	59.26	43.94	89.87	24.89			2.02	0.72			
	-		1					2.44	• • • •	0.50	0.00	1	1					
SV2e-050	0.50"	15		in	5.71	5.95	3.86	3.66	2.08	3.72	0.92			2.57	1.17			
		-		mm	145.24	151.33	98.04	93.01	52.83	94.64	23.37							
SV2e-075	0.75"	20		in	5.75	6.20	3.86	3.66	2.08	3.72	1.43		0.35 to	2.61	1.18			
			7.0	mm	146.10	157.56	98.04	93.01	52.83	94.64	36.32	.75 13						
SV2e-100	1.00"	25	,	in	5.96	6.36	3.86	3.66	2.08	3.72	1.17		GPM			13.0	2.69	1.22
0.776 100	1100	20		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			
	1.25	52		mm	156.03	170.00	98.04	93.01	52.83	94.64	38.10			2.92	1.52			
		-	1		0.60	0.44	5.60	5.00	2.24	4.70	1.41	1						
SV3-100	1.00"	25		in	8.60	9.44	5.62	5.03	2.26	4.78	1.41			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		21.0 GPM					
SV3-150	1.50"	40		in	8.67	9.91	5.62	5.03	2.26	4.78	1.17		OFM	4.44	2.01			
				mm	220.10	251.70	142.90	127.76	57.40	121.40	29.71							

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-SV-0915.05

Components - Model SV - 0.50" to 2.00"

			1	S & W					1		1	T			aum
MODEL-	SIZ	Æ	Cv*		A	1	В	С	D	Е	**T	Bypass		WEI	GHT
MODEL	in	mm	CV		FNPT	SWT	D	C	ν	Ľ	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
514-150	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	5.90
SVA 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	0.42	4.27
SV4-200	2.00	50		mm	232.16	262.89	188.98	143.76	71.88	134.87	38.10		GPM	9.42	4.27
										duromet					ap
** Please 1 <i>Dimensi</i> STANDA	ions no	t for co	onstruc	tion pu			TP for oth fied by fac		nd connec	tions.					
-		РТ	w	ith O-1	ing seal a	and neop	rene retai	iner strap	. Accepts	s standard	1 1/8" (41	mm) gau	ige adap	oter or	-
			th		teter sten 500 PSI		Pa) and 2	75°F (13	5°C)						



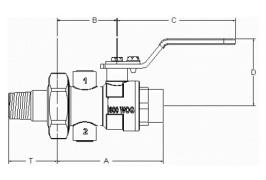


SPECIFICATIONS

Model BB 0.50" to 2.00" Submittal Data

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 blowout 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.





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. 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

MODEL		SIZE		A	4	В	С	D	*Т	WEI	GHT
MODEL	in	mm		FNPT	SWT	D	C	D	MPT	lbs	kg
BB1E-050	0.50"	15	in	3.72	4.08	2.03	3.66	1.61	1.50	1.15	0.52
BBIE-020	0.50	13	mm	94.5	103.6	51.6	93.0	40.9	38.10	1.15	0.52
DD1E 075	0.75" R	20	in	3.84	4.37	2.03	3.66	1.61	1.50	1 10	0.5/
BB1E-075	0.75 K	20	mm	97.5	111.0	51.6	93.0	40.9	38.10	1.19	0.54
	T		l			T				T	1
BB2E-075	0.75"	20	in	3.92	4.49	2.03	3.66	2.08	1.56	1.54	0.61
BB2E-0 73	0.75	20	mm	99.6	114.0	51.6	93.0	52.8	39.70	1.54	0.0
BB2E-100	2E-100 1.00"	25	in	4.13	4.53	2.03	3.66	2.08	1.75	1.70	0.7
BB2E-100	1.00	23	mm	105.0	115.1	51.6	93.0	52.8	44.5	1.70	0.7
			1	T	1	F	1		Ī	T	1
BB3-125	1.25"	32	in	5.42	6.41	2.37	5.03	2.26	1.80	3.97	1.80
DD 0 125	1.25	52	mm	137.7	162.8	60.3	127.8	57.4	45.72	5.97	1.00
BB3-150	1.50"	40	in	5.42	6.67	2.52	5.65	2.26	1.80	4.12	1.87
BB5-150	1.50	40	mm	137.7	169.3	64.0	143.6	57.4	45.72	7.12	1.0
			1			F				r	r
BB4-200	2.00" R	50	in	5.03	5.82	2.90	5.66	2.83	1.98	5.68	2.58
DD7-200	2.00 K	50	mm	127.8	148.8	73.7	143.8	71.9	50.17	5.00	2.50

* 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

9	MS	М

Memory stop with position indicator, zinc coated steel.

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

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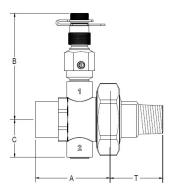


Model URP 0.375" to 2.00" Submittal Data

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	DIMENS	IONS &	& WEIG	HTS								
MODEL		SIZE			Α		р	C	*T	WEI	GHT	
MODEL	in	mm		FNPT	MNPT	SWT	В	С	MNPT	lbs	kg	
URP-038	0.375"	10	in	N/A	N/A	1.88	2.78	0.84	N/A	0.76	035	
UKF-038	0.373	10	mm	N/A	N/A	47.68	70.61	21.34	N/A	0.70	033	
URP-050	0.50"	15	in	1.90	2.25	1.88	2.78	0.84	1.50	0.86	0.39	
UKP-050	0.50	15	mm	48.26	57.23	47.75	70.25	21.34	38.10	0.80	0.39	
URP-075	0.75" R	20	in	1.98	2.19	2.12	2.78	0.84	1.55	0.79	0.36	
UKF-0/5	0.75 K	20	mm	50.29	55.65	53.85	70.61	21.34	39.37	0.79	0.50	
URP-100	1.00"	25	in	2.15	N/A	2.28	3.02	1.08	1.75	1.16	0.53	
UKF-100	1.00	23	mm	54.61	N/A	57.91	76.65	27.43	44.72	1.10	0.53	
URP-125	1.25"	32	in	2.39	N/A	2.56	3.39	1.46	1.80	2.20	1.00	
UKF-125	1.23	32	mm	60.71	N/A	65.02	86.18	37.08	45.72	2.20	1.00	
URP-150	1 50"	1.50"	40	in	2.39	N/A	2.69	3.39	1.46	1.80	2.42	1.10
UKF-150	1.30	40	mm	60.71	N/A	68.32	86.18	37.08	45.72	2.42	1.10	
URP-200	2.00"	2.00"	50	in	2.49	N/A	3.03	3.70	1.76	1.98	3.42	1.55
UKF-200	2.00	50	mm	63.25	N/A	76.96	94.08	44.70	50.17	5.42	1.55	

* 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



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)

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





Flexible Hose Connectors

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.



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

Specs for Application and Installation

A. Install and tighten the fixed male connector

C. Install and tighten the swivel nut

B. Install and tighten the union adaptor (if applicable)

• Use two spanners in order to screw in the union: One to hold the hexagon of the adaptor. The other to tighten the

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

tightening the connectors.

(if applicable)

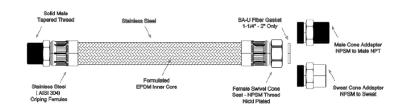
nut at the same time.

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



NOMINAL D	IMENSI	ONS				
SIZE			MOL)EL #		
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. Operati	ng & Bur	st Pressu	ıre Ratin	g		
Size	Op	erating (PSI)	ŀ	Burst (PS	I)
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:

INSTALLATION.

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. IOB ENGINEER REP:

CONTRACTOR

Tunstall

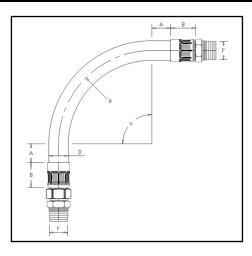
Tunstall Corporation 118 Exchange Street · Chicopee, MA 01013 Phone (413) 594-8695 · Fax (413) 598-8109 Section: Components Bulletin-MB-FH-0915

Macon product are an extra charge, and not included in the standard model price.

Optional features and accessories available for this

www.maconbalancing.com

Accessories - Model FH



NOMINAL DIMENSIONS						
F	LENGTH	R min	A min	В	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.