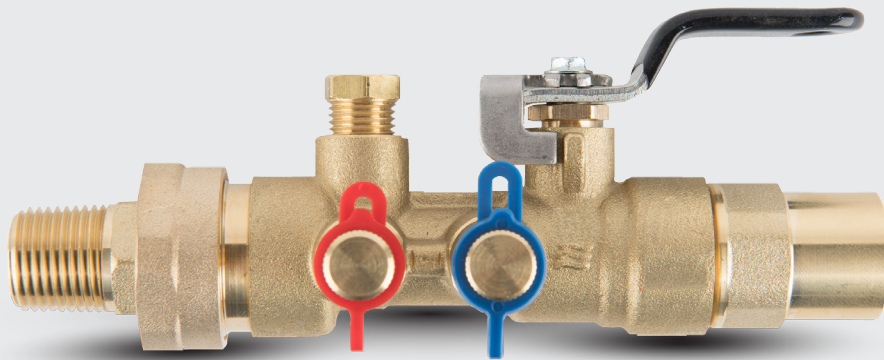


UA



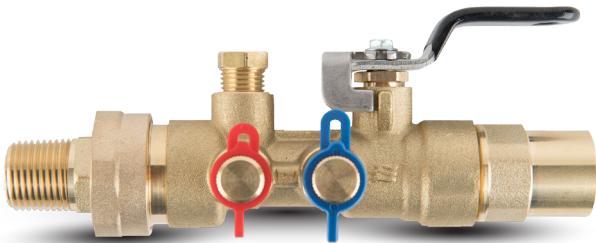
Manual Venturi Balancing

Venturi ball valve

 Engineering
GREAT Solutions

UA

Model UA is a shutoff and manual throttling venturi valve with large diameter plated ball and PTFE seats. Stem is blowout proof with EPDM O-ring and PTFE packing with packing nut. Micro handle customary on the A and M body, and standard handle customary on the B and C bodies both utilize a standard adjustable memory stop for shutoff and resetting and vinyl coated grip. Dual Pressure / Temperature ports are standard on all UA bodies. Models A, B and C are available with union connection or fixed threaded or sweat connections each with a metal to metal and EPDM O-ring seal.



Key features

- > **Fixed Measures Element**
Reading depends on flow only
- > **Optional Connections**
Unions, fixed and sweat

Technical description

Application: Hydronic Balancing	Rating: Body M: 400 psig at 250° F (25 Bar at 120° C) Bodies A, B & C: 600 psig at 250° F (40 Bar at 120° C)	Accuracy: ±3%
Functions: Balancing, Measuring and Isolation		Material: Body: DZR Brass Union (Optional): Brass with EPDM O-ring Fixed Connection: DZR Brass
Dimensions: 1/2" - 2"		

Configuration Information

Body	Venturi No.	Venturi Flow Ranges* gpm (lps)	Cv (Kv)	Inlet Connections in. (mm)	Outlet Connections in. (mm)
M	1	0.2 - 0.9 (0.01 - 0.04)	.28	1/2 (15) M	1/2 (15) S, F 3/4 (20) S, F
	2	0.5 - 2.0 (0.03 - 0.12)	.77		
	3	1.0 - 4.6 (0.06 - 0.29)	2.2		
	4	2.2 - 10.0 (0.14 - 0.63)	4.8		
A	1	0.2 - 0.7 (0.01 - 0.04)	.28	1/2 (15) S, F, M	- -
	2	0.4 - 1.5 (0.03 - 0.09)	.77	3/4 (20) S, F, M	1/2 (15) S, F, M
	3	1.0 - 3.4 (0.06 - 0.21)	2.2	1 (25) S, F, M	3/4 (20) S, M
	4	2.2 - 7.5 (0.14 - 0.47)	4.8		
B	5	2.6 - 9.5 (0.16 - 0.6)	6.0	1/2 (15) S, F, M	1/2 (15) S, F, M
	6	5.8 - 21.0 (0.37 - 1.32)	18.0	3/4 (20) S, F, M	3/4 (20) S, M
				1 (25) S, F, M	1 (25) S, F, M
				1 1/4 (32) S, F, M	1 1/4 (32) S, F, M
C	7	9.5 - 37.0 (0.6 - 2.33)	18.0	1 1/4 (32) S, F, M	1 1/4 (32) S, F, M
	8	22.0 - 80.0 (1.39 - 5.05)	68.0	1 1/2 (40) S, F, M	1 1/2 (40) S, F, M
				2 (50) S, F, M	2 (50) S, F, M

Notes

* Flow range is from the minimum recommended differential pressure 24" to 500" W.C. (5.97 to 124.42 kPa)
See installation and operation manual (Flowset)

Connection / Weights

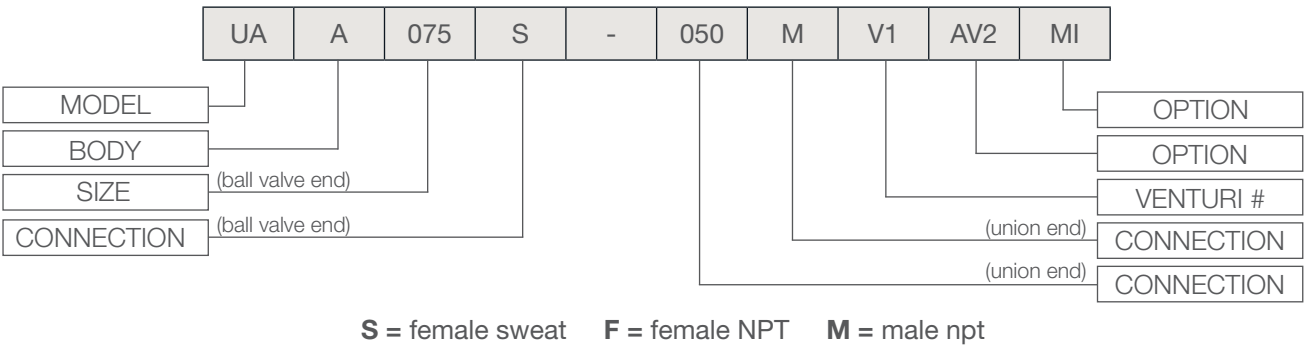
Body	Connection Type	Weight (lbs./kg)			
		1/2 (15mm)	3/4 (20mm)	1 (25mm)	-
A	S	0.1 (.05)	0.1 (.05)	0.2 (.08)	-
	F	0.1 (.06)	0.2 (.08)	0.4 (.16)	-
	Union S	0.4 (.20)	0.4 (.20)	-	-
	Union F	-	0.5 (.21)	-	-
	Union M	0.5 (.24)	0.5 (.20)	-	-
B		1/2 (15mm)	3/4 (20mm)	1 (25mm)	1 1/4 (32mm)
	S	0.2 (.07)	0.2 (.08)	0.1 (.05)	0.3 (.20)
	F	0.2 (.08)	0.2 (.09)	0.3 (.13)	0.4 (.12)
	Union S	0.4 (.20)	0.5 (.20)	2.7 (1.21)	1.2 (.54)
	Union F	0.5 (.22)	0.5 (.22)	2.8 (1.25)	1.3 (.57)
	Union M	0.6 (.26)	0.6 (.28)	3.0 (1.34)	1.5 (.69)
C		1 1/4 (32mm)	1 1/2 (40mm)	2 (50mm)	-
	S	0.7 (.31)	0.6 (.28)	0.7 (.29)	-
	F	0.8 (.34)	0.6 (.29)	0.6 (.29)	-
	Union S	2.4 (1.10)	2.4 (1.10)	2.8 (1.27)	-
	Union F	2.7 (1.24)	2.7 (1.24)	3.1 (1.38)	-
	Union M	2.8 (1.28)	3.0 (1.37)	2.8 (1.29)	-

S = female sweat









F = female NPT

M = male NPT

Model UA Order Designation



1/2" - 2" AccuSetter Products (Model UA)

<div>Connections (Inlet)</div> <div>Union</div> <div><div>U 3/8" S</div><div>U 1/2" S</div><div>U 3/4" S</div></div> <div><div>U 1/2" F</div><div>U 3/4" F</div></div> <div><div>U 1/2" M</div><div>U 3/4" M</div></div>	<div>Body A</div> <div></div> <div>RETURN</div> <div>Includes Venturi, two P/T ports & Memory Stop</div> <div>Venturis</div> <div>(Choose One)</div> <div><div>Venturi #1</div><div>.2 - .7 gpm</div><div></div></div> <div><div>Venturi #2</div><div>.4 - 1.5 gpm</div><div></div></div> <div><div>Venturi #3</div><div>1.0- 3.4 gpm</div><div></div></div> <div><div>Venturi #4</div><div>2.2 - 7.5 gpm</div><div></div></div>
---	--

Options Available

***AA** Automatic Air Vent

***AV** Manual Air Vent

***DX** Two Extended P/T Ports

***EH** Extended Handle

***MH** Micro Handle (optional on B Body)

***MI** Metal ID Tag

***PI** Plastic ID Tag

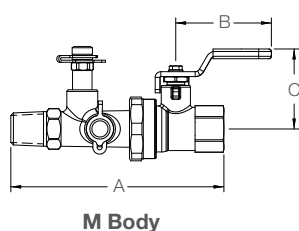
***PL** Plug

***SE** Stem Extender

Notes

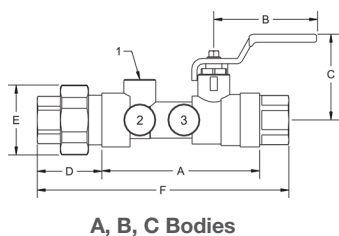
* Only available on A, B, C bodies

Articles



Body Dimensions

Body	A		B		C		Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	lb.	(kg)
M	5.3	(132)	2.3	(59)	1.9	(48)	1.1	(0.5)
A	3.5	(90)	2.3	(58)	2.1	(53)	0.8	(0.4)
B	3.8	(97)	2.3	(58)	2.2	(56)	1.2	(0.5)
C	5.4	(137)	5.5	(140)	3.5	(89)	3.6	(1.6)



Connection Dimensions

Body	Connection Type	D				E			
		in./ (mm)				in./ (mm)			
		3/8 (10)	1/2 (15)	3/4 (20)	1 (25)	3/8 (10)	1/2 (15)	3/4 (20)	1 (25)
	S	—	0.5 (14)	0.8 (20)	1.2 (29)	—	1.1 (28)	1.2 (29)	1.5 (29)
	F	—	0.7 (17)	0.8 (20)	1.1 (29)	—	1.1 (28)	1.3 (33)	1.6 (29)
A	Union S	1.4 (35)	1.5 (37)	1.6 (40)	—	1.6 (39)	1.6 (39)	1.6 (39)	—
	Union F	—	1.5 (37)	—	—	—	1.6 (39)	—	—
	Union M	—	2.4 (61)	2.2 (57)	—	—	1.6 (39)	1.6 (39)	—
		1/2 (15)	3/4 (20)	1 (25)	1 1/4 (32)	1/2 (15)	3/4 (20)	1 (25)	1 1/4 (32)
	S	0.5 (14)	0.8 (19)	1.0 (25)	1.2 (28)	1.3 (34)	1.3 (34)	1.5 (37)	1.8 (51)
	F	0.7 (18)	0.7 (19)	0.9 (24)	1.1 (32)	1.3 (34)	1.3 (34)	1.6 (41)	2.0 (45)
B	Union S	1.5 (37)	1.7 (43)	1.7 (42)	1.8 (45)	2.1 (53)	2.1 (53)	2.4 (60)	2.8 (72)
	Union F	1.5 (39)	1.6 (40)	1.7 (43)	1.7 (43)	2.1 (53)	2.1 (53)	2.4 (60)	2.8 (72)
	Union M	2.4 (60)	2.2 (56)	2.5 (63)	2.5 (64)	2.1 (53)	2.1 (53)	2.4 (60)	2.8 (72)
		1 1/4 (32)	1 1/2 (40)	2 (50)		1 1/4 (32)	1 1/2 (40)	2 (50)	
	S		1.2 (29)	1.2 (31)	1.7 (42)		2.4 (62)	2.4 (62)	2.7 (69)
	F		0.9 (23)	0.9 (23)	1.2 (29)		2.4 (62)	2.4 (62)	2.9 (72)
C	Union S		2.0 (51)	2.1 (54)	2.4 (61)		3.5 (88)	3.5 (88)	3.8 (97)
	Union F		1.9 (49)	1.9 (49)	2.0 (50)		3.5 (88)	3.5 (88)	3.8 (97)
	Union M		3.0 (75)	3.0 (76)	2.8 (72)		3.5 (88)	3.5 (88)	3.8 (97)

S = female sweat

F = female NPT

M = male NPT

Articles

Weights

Body Size	Connection Type	Weight lb./ (kg)			
		3/8 (10mm)	1/2 (15mm)	3/4 (20mm)	1 (25mm)
A	S	—	0.1 (.05)	0.1 (.05)	0.2 (.08)
	F	—	0.1 (.06)	0.2 (.08)	0.4 (.16)
	Union S	0.5 (.20)	0.4 (.20)	0.4 (.20)	—
	Union F	—	—	0.5 (.21)	—
	Union M	—	0.5 (.24)	0.5 (.20)	—
B		1/2 (15mm)	3/4 (20mm)	1 (25mm)	1 1/4 (32mm)
	S	0.2 (.07)	0.2 (.08)	0.1 (.05)	0.3 (.20)
	F	0.2 (.08)	0.2 (.09)	0.3 (.13)	0.4 (.12)
	Union S	0.4 (.20)	0.5 (.20)	2.7 (1.21)	1.2 (.54)
	Union F	0.5 (.22)	0.5 (.22)	2.8 (1.25)	1.3 (.57)
C	Union M	0.6 (.26)	0.6 (.28)	3.0 (1.34)	1.5 (.69)
			1 1/4 (32mm)	1 1/2 (40mm)	2 (50mm)
	S	—	0.7 (.31)	0.6 (.28)	0.7 (.29)
	F	—	0.8 (.34)	0.6 (.29)	0.6 (.29)
	Union S	—	2.4 (1.10)	2.4 (1.10)	2.8 (1.27)
	Union F	—	2.7 (1.24)	2.7 (1.24)	3.1 (1.38)
	Union M	—	2.8 (1.28)	3.0 (1.37)	2.8 (1.29)

S = female sweat

F = female NPT

M = male NPT

Notes

All weights and dimensions are subject to minor changes.

*The F dimension may be calculated by using two D dimensions and adding them to the A dimension of the valve body.

