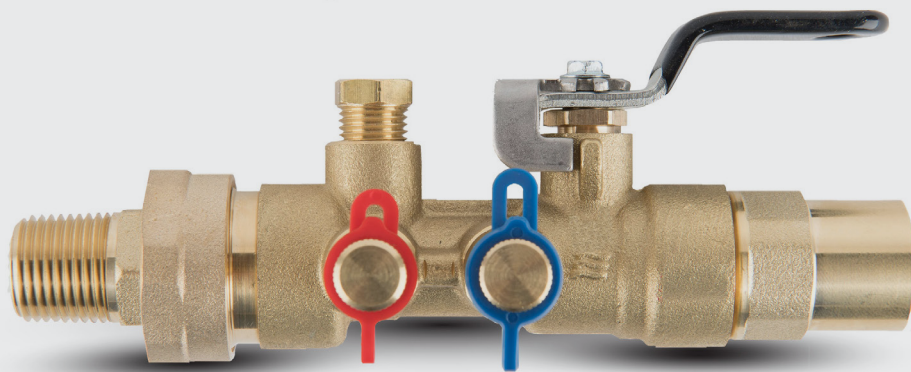


UA SBS



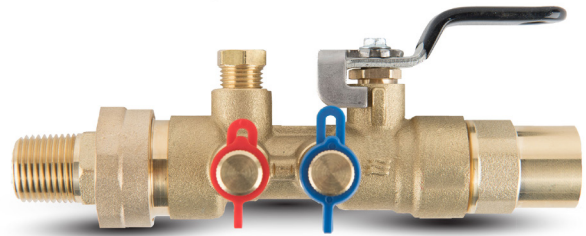
Manual Venturi Balancing

Venturi ball valve, stainless steel ball and stem


Engineering
GREAT Solutions

UA SBS

Model UA SBS is a shutoff and manual throttling venturi valve with large diameter stainless steel ball and PTFE seats. The stainless steel 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
- > **Fixed Measures Element**
Unions, fixed and sweat
- > **Stainless Steel ball and stem**

Technical description

Application:

Hydronic Balancing

Functions:

Balancing, Measuring and Isolation

Dimensions:

1/2" - 2"

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%

Material:

Body: DZR Brass

Union (Optional): Brass with EPDM O-ring

Fixed Connection: DZR Brass

Ball and Stem: 316 Stainless Steel

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 - 0.06)	.28						
	2	0.5 - 2.0 (0.03 - 0.12)	.77				1/2 (15)	S, F	
	3	1.0 - 4.6 (0.06 - 0.29)	2.2	1/2 (15)	M		3/4 (20)	S, F	
	4	2.2 - 10.0 (0.14 - 0.63)	4.8						
A	1	0.2 - 0.7 (0.01 - 0.04)	.28				-	-	
	2	0.4 - 1.5 (0.03 - 0.09)	.77	1/2 (15)	S, F, M		1/2 (15)	S, F, M	
	3	1.0 - 3.4 (0.06 - 0.21)	2.2	3/4 (20)	S, F, M		3/4 (20)	S, M	
	4	2.2 - 7.5 (0.14 - 0.47)	4.8	1 (25)	S, F, M				
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 (15)	S, F, M		1 1/4 (15)	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

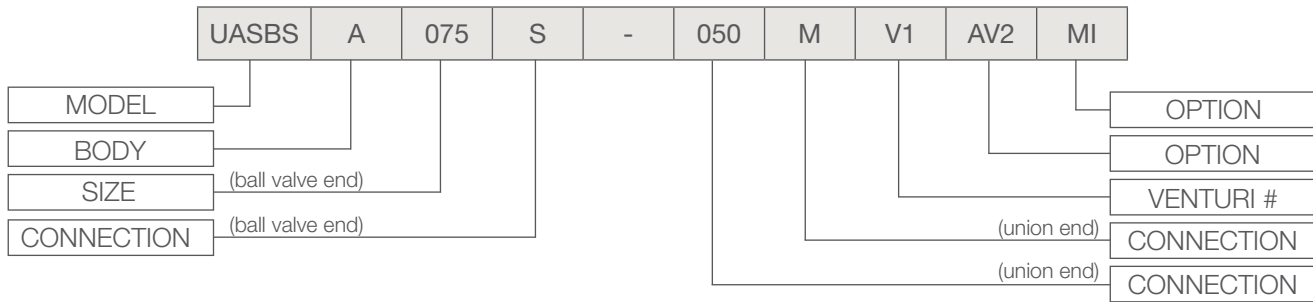
Body	Connection Type	Weight (lbs./kg)				
		-	1/2 (15mm)	3/4 (20mm)	1 (25mm)	
A	S	-	0.1 (.05)	0.1 (.05)	0.2 (.08)	
	F	-	0.1 (.06)	0.2 (.08)	0.4 (.16)	
	Union S	-	0.4 (.20)	0.4 (.20)	-	
	Union F	-	-	0.5 (.21)	-	
	Union M	-	0.5 (.24)	0.5 (.20)	-	
B			1/2 (15mm)	3/4 (20mm)	1 (25mm)	1 1/4 (32mm)
	S	0.2 (.07)	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 SBS Order Designation



S = female sweat **F** = female NPT **M** = male npt

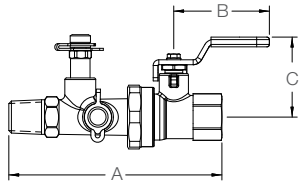
1/2" - 2" AccuSetter Products (Model UA)

<p>Connections (Inlet)</p> <p style="text-align: center;">Union</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">U 3/8" S U 1/2" S U 3/4" S</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">U 1/2" F U 3/4" F</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;">U 1/2" M U 3/4" M</div> </div> </div>	<p>Body A</p> <p style="text-align: center;"><i>Includes Venturi, two P/T ports & Memory Stop</i></p> <p>Venturis</p> <p style="text-align: center;">(Choose One)</p> <table style="width: 100%; text-align: center;"> <tr> <td>Venturi #1 .2 - .7 gpm</td> <td>Venturi #2 .4 - 1.5 gpm</td> <td>Venturi #3 1.0- 3.4 gpm</td> <td>Venturi #4 2.2 - 7.5 gpm</td> </tr> </table> <div style="display: flex; justify-content: space-around;"> </div>	Venturi #1 .2 - .7 gpm	Venturi #2 .4 - 1.5 gpm	Venturi #3 1.0- 3.4 gpm	Venturi #4 2.2 - 7.5 gpm	<p>Connections (Outlet)</p> <p style="text-align: center;">Fixed</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">1/2" S 3/4" S 1" S</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">1/2" F 3/4" F 1" F</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;">1/2" M 3/4" M 1" M</div> </div> </div> <p style="text-align: right; font-size: small;">1" inlet connection not available</p>
Venturi #1 .2 - .7 gpm	Venturi #2 .4 - 1.5 gpm	Venturi #3 1.0- 3.4 gpm	Venturi #4 2.2 - 7.5 gpm			

<p>Connections (Inlet)</p> <p style="text-align: center;">Union</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">U 1/2" S U 3/4" S U 1" S U 1 1/4" S</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">U 1/2" F U 3/4" F U 1" F U 1 1/4" F</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;">U 1/2" M U 3/4" M U 1" M U 1 1/4" M</div> </div> </div>	<p>Body B</p> <p style="text-align: center;"><i>Includes Venturi, two P/T ports & Memory Stop</i></p> <p>Venturis</p> <p style="text-align: center;">(Choose One)</p> <table style="width: 100%; text-align: center;"> <tr> <td>Venturi #5 2.6- 9.5 gpm</td> <td>Venturi #6 5.8 - 21.0 gpm</td> </tr> </table> <div style="display: flex; justify-content: space-around;"> </div>	Venturi #5 2.6- 9.5 gpm	Venturi #6 5.8 - 21.0 gpm	<p>Connections (Outlet)</p> <p style="text-align: center;">Fixed</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">1/2" S 3/4" S 1" S 1 1/4" S</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">1/2" F 3/4" F 1" F 1 1/4" F</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;">1/2" M 3/4" M 1" M 1 1/4" M</div> </div> </div>
Venturi #5 2.6- 9.5 gpm	Venturi #6 5.8 - 21.0 gpm			

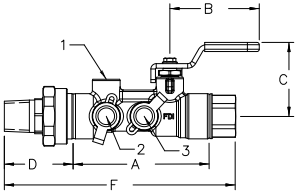
<p>Connections (Inlet)</p> <p style="text-align: center;">Union</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">U 1 1/4" S U 1 1/2" S U 2" S</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">U 1 1/4" F U 1 1/2" F U 2" F</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;">U 1 1/4" M U 1 1/2" M U 2" M</div> </div> </div>	<p>Body C</p> <p style="text-align: center;"><i>Includes Venturi, two P/T ports & Memory Stop</i></p> <p>Venturis</p> <p style="text-align: center;">(Choose One)</p> <table style="width: 100%; text-align: center;"> <tr> <td>Venturi #7 9.5- 37.0 gpm</td> <td>Venturi #8 22.0 - 80.0 gpm</td> </tr> </table> <div style="display: flex; justify-content: space-around;"> </div>	Venturi #7 9.5- 37.0 gpm	Venturi #8 22.0 - 80.0 gpm	<p>Connections (Outlet)</p> <p style="text-align: center;">Fixed</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">1 1/4" S 1 1/2" S 2" S</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="margin-left: 5px;">1 1/4" F 1 1/2" F 2" F</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;">1 1/4" M 1 1/2" M 2" M</div> </div> </div>
Venturi #7 9.5- 37.0 gpm	Venturi #8 22.0 - 80.0 gpm			

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)							
		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

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.

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

