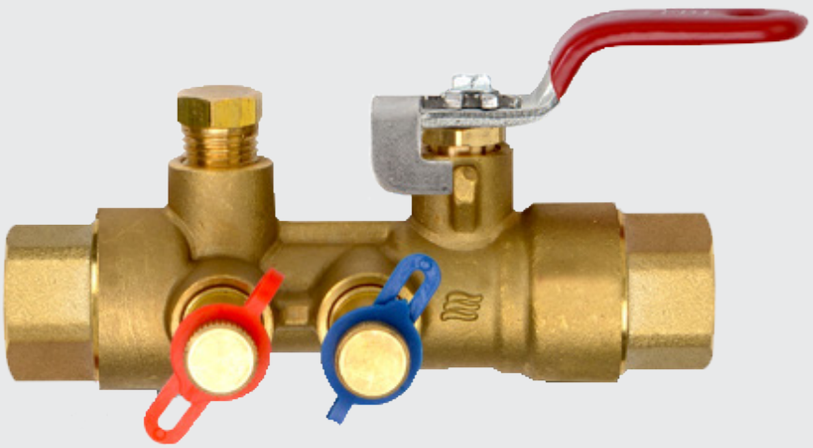
IMI FLOW DESIGN

UA Zero



Lead-Free Accusetter

Venturi balancing valve

Engineering GREAT Solutions

IMI Hydronic Engineering

UA Zero

Model UA Zero is a lead-free shut off 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 body, and standard handle customary on the B and C bodies. Both handles utilize a standard adjustable memory stop for shutoff and resetting and vinyl coated grip. Dual Pressure / Temperature ports are standard on all UA Zero bodies. Models A, B and C are available with fixed threaded female or sweat connection, each with a metal to metal and EPDM O-ring seal.

Key features

> **Fixed Measures Element**
Reading depends on flow only

> **Available Connections**
Female NPT and Sweat

Technical description

Application:
Hydronic and Potable Water Balancing

Functions:
Balancing, measuring and Isolation

Dimensions:
1/2" - 2"

Rating:
Bodies A, B & C: 600 psig at 250° F (40 Bar at 120° C)

Accuracy:
±3%

Material:
Body: Lead Free Brass
Fixed Connection: Lead Free Brass
Ball and Stem: 316 Stainless Steel

Model UA Zero complies with NSF/ANSI 372

Tested and Verified by Hurst Mettallurgical Research Laboratory, Inc.on Dec. 3, 2015

Markings: LF

Configuration Information

Body	Venturi No.	Venturi Flow Ranges* gpm (lps)	CV (Kv)	Inlet Connections in./(mm)			Outlet Connections in./(mm)		
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	1/2"	(15)	S, F
	3	1.0 - 3.4 (0.06 - 0.21)	2.2	3/4"	(20)	S, F	3/4"	(20)	S, F
	4	2.2 - 7.5 (0.14 - 0.47)	4.8	-	-	-	-	-	-
B	5	2.6 - 9.5 (0.16 - 0.6)	6.0	1"	(25)	S, F	1"	(25)	S, F
	6	5.8 - 21.0 (0.37 - 1.32)	18.0	1 1/4"	(32)	S, F	1 1/4"	(32)	S, F
C	7	9.5 - 37.0 (0.6 - 2.33)	18.0	1 1/2"	(40)	S, F	1 1/2"	(40)	S, F
	8	22.0 - 80.0 (1.39 - 5.05)	68.0	2"	(50)	S, F	2"	(50)	S, F

S = female sweat **F** = female NPT

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/Kgs) 1/2" (15mm)	3/4" (20mm)	
A	S	0.1 (.05)	0.1 (.05)	
	F	0.1 (.06)	0.2 (.08)	
			3/4" (20mm)	**1"** (25mm)
B	S		0.2 (.08)	0.1 (.05)
	F		0.2 (.09)	0.3 (.13)
			1 1/2" (40mm)	**2"** (50mm)
C	S		0.6 (.28)	0.7 (.29)
	F		0.6 (.29)	0.6 (.29)

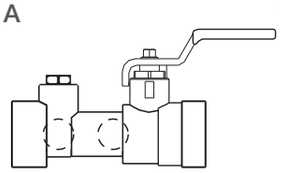
S = female sweat **F** = female NPT

Model UA Zero Order Designation

UAZ	A	075	S	-	075	S	V1	DX	EH
MODEL									OPTION
BODY									OPTION
SIZE	(ball valve end)								VENTURI #
CONNECTION	(ball valve end)							(Inlet)	CONNECTION
							(Inlet)		SIZE

S = female sweat **F** = female NPT **Connections (Inlet)**

Body A 1/2" - 3/4"



Includes Venturi, two P/T ports & Memory Stop

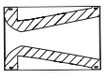
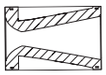
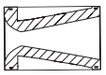
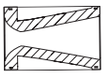
Connections (Inlet)

Fixed

1/2" S
3/4" S

1/2" F
3/4" F

Venturis (Choose One)

Venturi #1	*Venturi #2*	*Venturi #3*	*Venturi #4*
0.2-0.7	*0.4-1.5*	*1.0-3.4 gpm*	*2.2-7.5 gpm*
			

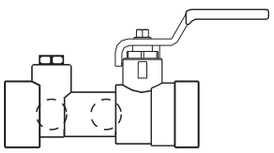
Connections (Ball Valve End)

Fixed

1/2" S
3/4" S

1/2" F
3/4" F

Body B 1" - 1 1/4"



Includes Venturi, two P/T ports & Memory Stop

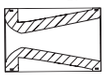
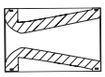
Connections (Inlet)

Fixed

1" S
1-1/4" S

1" F
1-1/4" F

Venturis (Choose One)

Venturi #5	*Venturi #6*
2.6-9.5 gpm	*5.8-21.0 gpm*
	

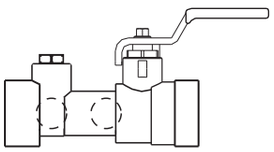
Connections (Ball Valve End)

Fixed

1" S
1-1/4" S

1" F
1-1/4" F

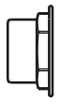
Body C 1 1/2" - 2"



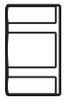
Includes Venturi, two P/T ports & Memory Stop

Connections (Inlet)

Fixed

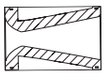
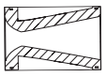


1-1/2" S
2" S



1-1/2" F
2" F

Venturis (Choose One)

Venturi #7	*Venturi #8*
9.5-37.0 gpm	*22.0-80.0 gpm*
	

Connections (Ball Valve End)

Fixed

1-1/2" S
2" S

1-1/2" F
2" F

Options Available

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

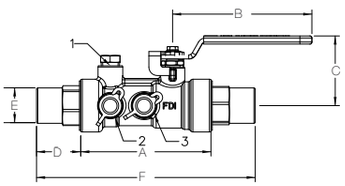
***EH** Extended Handle

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

***MI** Metal ID Tag

***PI** Plastic ID Tag

Articles



A, B, C Bodies

Body Dimensions

Body	A		B		C		Weight	
	in.	(mm)	in.	(mm)	in.	(mm)	lb.	(kg)
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	
		1/2" (15mm)	**3/4"** (20mm)	**1/2"** (15mm)	**3/4"** (20mm)
A	S	0.5 (14)	0.8 (20)	1.1 (28)	1.2 (29)
	F	0.7 (17)	0.8 (20)	1.1 (28)	13 (33)
		1" (25mm)	**1 1/4"** (32mm)	**1"** (25mm)	**1 1/4"** (32mm)
B	S	1.0 (25)	1.2 (29)	1.5 (37)	1.8 (51)
	F	0.9 (24)	1.1 (32)	1.6 (41)	2.0 (45)
		1 1/2" (40mm)	**2"** (50mm)	**1 1/2"** (40mm)	**2"** (50mm)
C	S	1.2 (31)	1.7 (42)	2.4 (62)	2.7 (69)
	F	0.9 (23)	1.2 (29)	2.4 (62)	2.9 (72)

S = female sweat **F** = female 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.

US F380.1 UA 02.2018