



Venturi Valves

FIELD ADJUSTABLE - FOR ALL HVAC SYSTEMS

Bell & Gossett Venturi valves provide balance, ease of commissioning, and shut-off for use in a wide range of HVAC systems. The venturi design provides efficient and accurate flow balancing with minimal pressure loss. The ball/butterfly valve provides complete shut-off capability for use when servicing a section of your system. Offered in a wide range of sizes and end connections, Bell & Gossett Venturi valves can be the perfect solution for your entire system.

Venturi with Ball Valve

Brass venturi flow measurement section with integrated ball valve for small HVAC system applications.

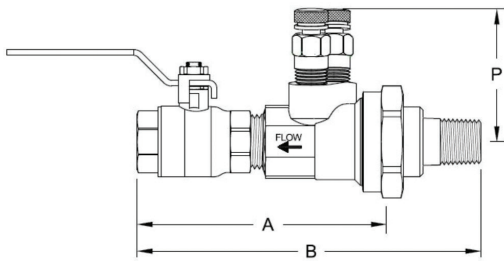
- Calibrated full port ball valve
- Sizes from 1/2" to 2"
- Flow range from 0.3 GPM to 75 GPM
- Memory stop for re-setting valve after Isolation/shut-off
- Integrated P/T ports for easy ΔP measurement
- Union-ended tailpieces for quick installation

Venturi with or without Butterfly Valve

Steel venturi flow measurement section with or without butterfly valve for large system applications.

- Available with flange, groove, or weld end connections
- Sizes from 2 1/2" to 12"
- Flow range from 20 GPM to 9,700 GPM
- Integrated 2" P/T ports for easy ΔP measurement
- Flow accuracy as fine as $\pm 1\%$
- Butterfly valve includes 10 position memory stop

Model MV - Venturi with Ball Valve Dimension Information



Body: C37700 Brass

Ball: Chrome Plated Brass

Ball Seat: PTFE

O-Rings: EPDM

Handle: Chrome Plated Steel w/ Vinyl Cover

Stem: Explosion Proof

Max. Working Pressure: 400 psig (2,758 kPa)

Temperature Range: -4°F (-20°C) to 250°F (121°C)

Accuracy:

+/- 1% between 0.36 psi & 2.53 psi ΔP

+/- 3% between 0.18 & 0.36 psi and 2.53 & 5.42 psi ΔP

+/- 5% for $\Delta P < 0.18$ psi and > 5.42 psi

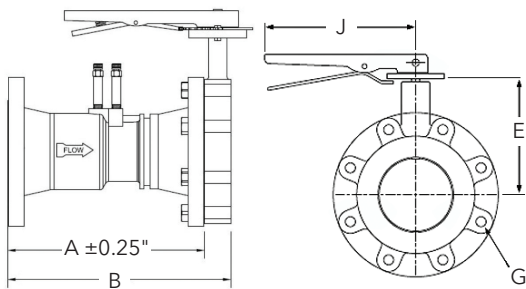
See Submittal A-606.40A for full pressure drop information

Size	FLOW INFORMATION IN GPM (L/m)		
	Lower Flow Rate	Upper Flow Rate	Cv
1/2"L	0.3 (1.1)	0.9 (3.4)	0.55
1/2"H	1.0 (3.8)	4.8 (18.2)	1.6
3/4"UL	0.3 (1.1)	0.9 (3.4)	0.55
3/4"L	1.0 (3.8)	2.8 (10.6)	1.6
3/4"H	3.0 (11.4)	9.0 (34.1)	3.1
1"	2.8 (10.6)	15.0 (56.8)	5
1 1/4"	5.4 (20.5)	26.0 (98.5)	8.8
1 1/2"	12.0 (45.5)	40.0 (151.5)	13
2"	22.0 (83.3)	75.0 (289.1)	24

Size	DIMENSIONS* IN INCHES (mm)		
	A	B	P
1/2"	4.8 (122)	5.5 (140)	2.1 (53)
3/4"	5.2 (132)	6.0 (152)	2.1 (51)
1"	5.7 (148)	6.7 (170)	2.2 (56)
1 1/4"	6.5 (165)	7.5 (190)	2.4 (61)
1 1/2"	8.0 (203)	9.1 (231)	2.7 (68)
2"	8.7 (193)	9.8 (249)	3.0 (76)

*Dimensions not to be used for construction purposes

Model MVF & VF - Venturi with and without Butterfly Valve Dimension Information



Venturi Body: Carbon Steel

Butterfly Valve Body: Nodular Cast Steel

Disc: Aluminum/Bronze

Stem: Stainless Steel

Liner: EPDM

Max. Working Pressure: 150 psig (1,034 kPa)

Temperature Range:

-4°F (-20°C) to 230°F (111°C) w/o Butterfly Valve

-4°F (-20°C) to 212°F (100°C) w/ Butterfly Valve

Accuracy:

+/- 1% for ΔP between 0.36 psi & 2.53 psi

+/- 3% for ΔP between 0.18 & 0.36 psi and 2.53 & 5.42 psi

+/- 5% for $\Delta P < 0.18$ psi and > 5.42 psi

See Submittal A-612C for full pressure drop information

Size	FLOW INFORMATION IN GPM (L/m)		
	Lower Flow Rate	Upper Flow Rate	Cv
2 1/2"L	20 (76)	140 (530)	45
2 1/2"H	60 (227)	320 (1,211)	97
3"L	30 (114)	220 (833)	69
3"H	80 (303)	580 (2,196)	176
4"L	80 (303)	600 (2,271)	186
4"H	140 (530)	1,000 (3,785)	313
5"	160 (606)	1,250 (4,732)	385
6"	200 (757)	1,500 (5,678)	472
8"	450 (1,703)	2,800 (10,600)	859
10"	600 (2,271)	4,150 (15,710)	1,266
12"	950 (3,596)	9,700 (36,718)	2,941

Size	DIMENSIONS* IN INCHES (mm)				
	A	B	E	G	J
2 1/2"	11.0 (278)	12.8 (324)	6.9 (175)	5/8"	10.5 (267)
3"	11.3 (286)	13.1 (332)	7.1 (180)	5/8"	10.5 (267)
4"	12.7 (321)	14.6 (370)	7.9 (201)	5/8"	10.5 (267)
5"	13.5 (342)	15.7 (398)	8.4 (213)	3/4"	10.5 (267)
6"	15.0 (380)	17.2 (436)	8.9 (226)	3/4"	10.5 (267)
8"	16.9 (427)	19.2 (488)	10.2 (259)	3/4"	***
10"	20.8 (528)	23.4 (594)	11.5 (292)	3/4"	***
12"	26.1 (662)	29.2 (741)	13.3 (338)	3/4"	***

*Dimensions not to be used for construction purposes

***Denotes gear operated valve

xylem
Let's Solve Water

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