

JOB:
REPRESENTATIVE:

UNIT TAG:

ORDER NUMBER:

DATE:

ENGINEER:

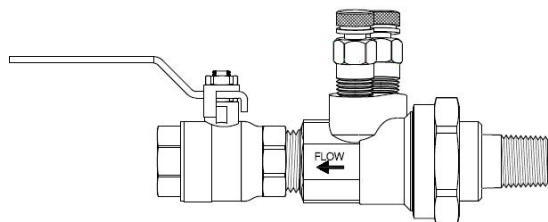
SUBMITTED BY:

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CONTRACTOR:

APPROVED BY:

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MODEL MV

Venturi Ball/Valve Combination

DESCRIPTION

Bell & Gossett's Model MV is a combination calibrated balance, commissioning and positive shut-off valve for use in HVAC systems. An efficient brass Venturi design provides accurate flow balancing with minimal system pressure loss. Valves are furnished with two pressure / temperature ports, standard port ball valve with memory stop, and a hanging ID tag for commissioning. A variety of end connections are available on both the fixed and union ends.

MAXIMUM WORKING PRESSURE

400 psig (2,758 kPa)

MAXIMUM OPERATING TEMPERATURE

40°F (5°C) to 250°F (121°C)

CONSTRUCTION

- Venturi Body: Cast Brass ASTM B763-08A
- Ball Valve: Forged Brass ASTM B283-06
- O-Ring: EPDM
- PT Seal: EPDM Dual Durometer Core
- Handle: Chrome Plated Steel
- Memory Stop: 302 Stainless Steel
- Stem: Brass ASTM B124-09, Blow Out Proof
- Ball: Chrome Plated Brass
- Ball Seat: Teflon
- Packing Nut: Brass ASTM B124-09
- Packing Gland: Teflon

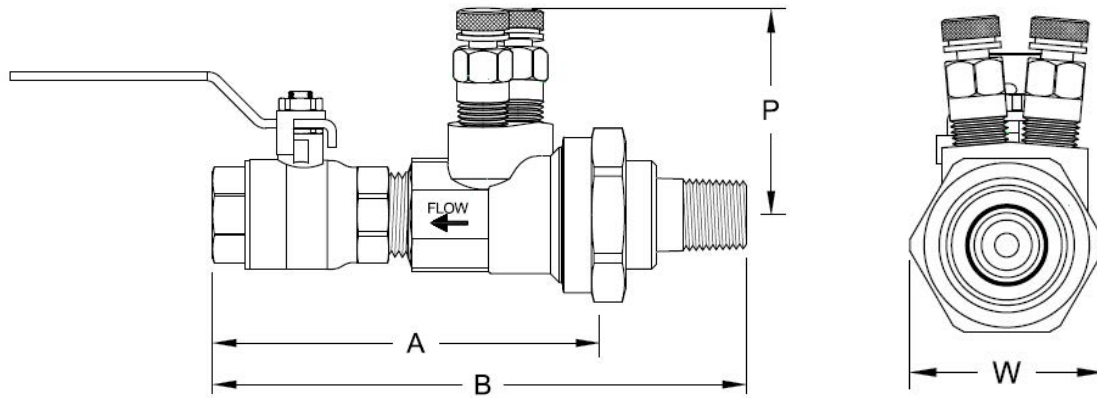
ACCURACY

- +/- 1% Between 10" W.C. & 70" W.C.
- +/- 3% Between 5" W.C. & 150" W.C.
- +/- 5% Less than 5" W.C. & Over 150" W.C.

SCHEDULE

VALVE SIZE/FIXED END	TAGGING INFORMATION	QUANTITY
½"L Sweat Female		
½"L NPT Female		
½"H Sweat Female		
½"H NPT Female		
¾"UL Sweat Female		
¾"UL NPT Female		
¾"L Sweat Female		
¾"L NPT Female		
¾"H Sweat Female		
¾"H NPT Female		
1" Sweat Female		
1" NPT Female		
1¼" Sweat Female		
1¼" NPT Female		
1½" Sweat Female		
1½" NPT Female		
2" Sweat Female		
2" NPT Female		

Model MV



VALVE SIZE/FIXED END	Recommended Flow Rate GPM (l/m)	Cv	DIMENSIONS* in INCHES (mm)				APPROX. WT. LBS. (kg)
			A	B	P	W	
½"L Sweat Female	0.3 - 1.8 (1.14 - 6.8)	0.55	4.8 (122)	5.5 (140)	2.1 (53)	1.6 (40.6)	1.23 (0.6)
½"L NPT Female	0.3 - 1.8 (1.14 - 6.8)	0.55	4.5 (114)	5.1 (130)	2.1 (53)	1.6 (40.6)	1.23 (0.6)
½"H Sweat Female	0.8 - 4.2 (3.0 - 15.8)	1.6	4.8 (122)	5.5 (140)	2.1 (53)	1.6 (40.6)	1.23 (0.6)
½"H NPT Female	0.8 - 4.2 (3.0 - 15.8)	1.6	4.5 (114)	5.1 (130)	2.1 (53)	1.6 (40.6)	1.23 (0.6)
¾"UL Sweat Female	0.3 - 1.8 (1.14 - 6.8)	0.55	5.2 (132)	6.0 (152)	2.1 (53)	1.6 (40.6)	1.50 (0.7)
¾"UL NPT Female	0.3 - 1.8 (1.14 - 6.8)	0.55	4.7 (119)	5.5 (139)	2.1 (53)	1.6 (40.6)	1.50 (0.7)
¾"L Sweat Female	0.8 - 4.2 (3.0 - 15.8)	1.6	5.2 (132)	6.0 (152)	2.1 (53)	1.8 (46)	1.50 (0.7)
¾"L NPT Female	0.8 - 4.2 (3.0 - 15.8)	1.6	4.7 (119)	5.5 (139)	2.1 (53)	1.8 (46)	1.50 (0.7)
¾"H Sweat Female	1.8 - 8.9 (6.8 - 33.7)	3.1	5.2 (132)	6.0 (152)	2.1 (53)	1.8 (46)	1.50 (0.7)
¾"H NPT Female	1.8 - 8.9 (6.8 - 33.7)	3.1	4.7 (119)	5.5 (139)	2.1 (53)	1.8 (46)	1.50 (0.7)
1" Sweat Female	2.8 - 15.0 (10.61 - 56.82)	5	5.7 (148)	6.7 (170)	2.2 (56)	2.1 (53)	2.45 (1.11)
1" NPT Female	2.8 - 15.0 (10.61 - 56.82)	5	5.1 (129)	6.0 (152)	2.2 (56)	2.1 (53)	2.45 (1.11)
1¼" Sweat Female	4.8 - 24.0 (18.2 - 90.8)	8.8	6.5 (165)	7.5 (190)	2.4 (61)	2.8 (71)	3.50 (1.59)
1¼" NPT Female	4.8 - 24.0 (18.2 - 90.8)	8.8	5.8 (52)	6.7 (168)	2.4 (61)	2.8 (71)	3.50 (1.59)
1½" Sweat Female	7.5 - 35.5 (28.4 - 134.4)	13	8.0 (203)	9.1 (231)	2.7 (68)	3.1 (79)	4.81 (2.18)
1½" NPT Female	7.5 - 35.5 (28.4 - 134.4)	13	7.0 (179)	8.2 (208)	2.7 (68)	3.1 (79)	4.81 (2.18)
2" Sweat Female	12.0 - 69.3 (45.4 - 262.3)	24	8.7 (221)	9.8 (249)	3.0 (76)	3.8 (96)	7.25 (3.29)
2" NPT Female	12.0 - 69.3 (45.4 - 262.3)	24	7.6 (193)	8.7 (221)	3.0 (76)	3.8 (96)	7.25 (3.29)

*All dimensions +/- 0.125" tolerance. Dimensions are subject to change. Not to be used for construction purposes unless certified. Please see Data Chart #EP-600



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