

JOB:
REPRESENTATIVE:

UNIT TAG:

ORDER NUMBER:

DATE:

ENGINEER:

SUBMITTED BY:

DATE:

CONTRACTOR:

APPROVED BY:

DATE:



Model MVF and VF

Flange x Flange Venturi with Butterfly Valve Combination and Flange x Flange Venturi

DESCRIPTION

The Bell & Gossett Model VF Venturi flow tube flange x flange style is a carbon steel Venturi flow measurement section with flanged inlet and outlet end connections. The Model MVF is a carbon steel Venturi flow measurement section connected with lug type Butterfly Valve++ for throttling with flanged inlet and outlet end connections. Butterfly Valve connects to 150 lb. ANSI flanges and comes with 10 position memory stop and EPDM liner standard Venturi on both Model VF and Model MVF includes two 1/4" accessory taps.

++Suitable For Dead-End Service

CONSTRUCTION MATERIALS

- Venturi Body: Carbon Steel (ASTM: A216 Grade WCB)
- Butterfly Valve Body: Nodular Cast Iron (ASTM: A536 60-4-18)
- Disc (2-1/2" - 8"): Aluminum-Bronze Sand Casting
- Disc (10" - 12"): Ductile Iron
- Shaft: Stainless Steel AISI 410
- O-Ring: EPDM Rubber
- Bearing: Copper ASTM B45
- Bearing Bush: PTFE

MAXIMUM WORKING PRESSURE

200 PSIG (1379 kPa)

MAXIMUM OPERATING TEMPERATURE

212° F (100° C)

SCHEDULE

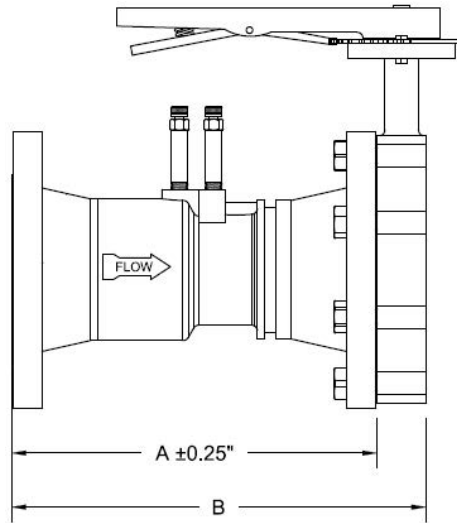
MODEL NUMBER (w/o Butterfly Valve)	TAGGING INFORMATION	QUANTITY
VF-2-1/2" L		
VF-2-1/2" H		
VF-3" L		
VF-3" H		
VF-4" L		
VF-4" H		
VF-5"		
VF-6"		
VF-8"		
VF-10"		
VF-12"		

SCHEDULE

MODEL NUMBER (w/ Butterfly Valve)	TAGGING INFORMATION	QUANTITY
MVF-2-1/2" L		
MVF-2-1/2" H		
MVF-3" L		
MVF-3" H		
MVF-4" L		
MVF-4" H		
MVF-5"		
MVF-6"		
MVF-8"		
MVF-10"		
MVF-12"		

Note: B&G recommends following ASHRAE's design criteria for hydronic system piping, flow rates, and friction losses.

Model MVF



NOMINAL LINE SIZE INCH (mm)	DIMENSIONS* in INCHES (mm)		FLOW RANGE in GPM (L/m)		Cv	Approx. Weight Lbs. (kg)
	A	B	MIN	MAX		
VF-2-1/2"L	11 (278)	-	20 (76)	140 (530)	45	24 (11)
MVF-2-1/2"L	11 (278)	12.8 (324)	20 (76)	140 (530)	45	37 (17)
VF-2-1/2"H	11 (278)	-	60 (227)	320 (1,211)	97	24 (11)
MVF-2-1/2"H	11 (278)	12.8 (324)	60 (227)	320 (1,211)	97	37 (17)
VF-3"L	11.3 (286)	-	30 (114)	220 (833)	69	30 (14)
MVF-3"L	11.3 (286)	13.1 (332)	30 (114)	220 (833)	69	48 (22)
VF-3"H	11.3 (286)	-	80 (303)	580 (2,196)	176	30 (14)
MVF-3"H	11.3 (286)	13.1 (332)	80 (303)	580 (2,196)	176	48 (22)
VF-4"L	12.7 (321)	-	80 (303)	600 (2,271)	186	42 (19)
MVF-4"L	12.7 (321)	14.7 (370)	80 (303)	600 (2,271)	186	60 (27)
VF-4"H	12.7 (321)	-	140 (530)	1,000 (3,785)	313	42 (19)
MVF-4"H	12.7 (321)	14.7 (370)	140 (530)	1,000 (3,785)	313	60 (27)
VF-5"	13.5 (342)	-	160 (606)	1,250 (4,732)	385	56 (26)
MVF-5"	13.5 (342)	15.7 (398)	160 (606)	1,250 (4,732)	385	80 (38)
VF-6"	15.0 (380)	-	200 (757)	1,500 (5,678)	472	71 (32)
MVF-6"	15.0 (380)	17.2 (436)	200 (757)	1,500 (5,678)	472	100 (45)
VF-8"	16.9 (427)	-	450 (1,703)	2,800 (10,600)	859	113 (51)
MVF-8"	16.9 (427)	19.2 (488)	450 (1,703)	2,800 (10,600)	859	177 (80)
VF-10"	20.8 (528)	-	600 (2,271)	4,150 (15,710)	1,266	203 (92)
MVF-10"	20.8 (528)	23.4 (594)	600 (2,271)	4,150 (15,710)	1,266	295 (134)
VF-12"	26.1 (662)	-	950 (3,596)	9,700 (36,718)	2,941	293 (133)
MVF-12"	26.1 (662)	29.2 (741)	950 (3,596)	9,700 (36,718)	2,941	417 (189)

NOTE: Length A is without Butterfly and Length B includes Butterfly Valve.

*All dimensions +/- 0.25" tolerance. Dimensions are subject to change. Not to be used for construction purposes unless certified.



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