



JOB:

REPRESENTATIVE:

UNIT TAG:

ORDER NO.

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ENGINEER:

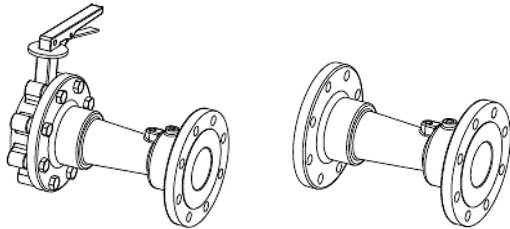
SUBMITTED BY:

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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.

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)

++Suitable For Dead-End Service

MAXIMUM OPERATING TEMPERATURE

212 Degrees F (100 Degrees C)

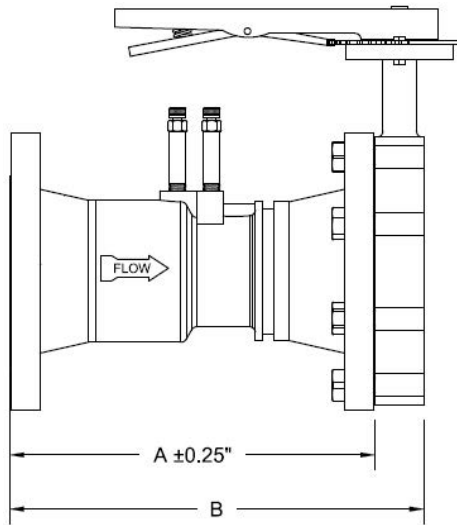
SCHEDULE

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.



NOMINAL LINE SIZE INCH (mm)	DIMENSIONS* INCH (mm)		CONNECTION	Lower Flow Range GPM (l/m)	Upper Flow Range GPM (l/m)	Cv	APPROX. WT. LBS. (kg) (Model VF)	APPROX. WT. LBS. (kg) (Model MVF)
	A	B						
VF-2½" L (63.5)	10.96 (278)	12.77 (324)	ANSI Class Flanges	30 (112)	100 (378)	8.5	24 (10.9)	37 (17)
MVF-2½" L (63.5)	10.96 (278)	12.77 (324)	ANSI Class Flanges	30 (112)	100 (378)	8.5	24 (10.9)	37 (17)
VF-2½" H (63.5)	10.96 (278)	12.77 (324)	ANSI Class Flanges	40 (151)	220 (832)	18.4	24 (10.9)	37 (17)
MVF-2½" H (63.5)	10.96 (278)	12.77 (324)	ANSI Class Flanges	40 (151)	220 (832)	18.4	24 (10.9)	37 (17)
VF-3" L (76.2)	11.28 (286)	13.09 (332)	ANSI Class Flanges	30 (114)	160 (605)	13.1	30 (13.6)	48 (22)
MVF-3" L (76.2)	11.28 (286)	13.09 (332)	ANSI Class Flanges	30 (114)	160 (605)	13.1	30 (13.6)	48 (22)
VF-3" H (76.2)	11.28 (286)	13.09 (332)	ANSI Class Flanges	80 (303)	400 (1514)	33.4	30 (13.6)	48 (22)
MVF-3" H (76.2)	11.28 (286)	13.09 (332)	ANSI Class Flanges	80 (303)	400 (1514)	33.4	30 (13.6)	48 (22)
VF-4" L (101.6)	12.65 (321)	14.56 (370)	ANSI Class Flanges	80 (303)	430 (1628)	35.3	42 (19.1)	60 (27)
MVF-4" L (101.6)	12.65 (321)	14.56 (370)	ANSI Class Flanges	80 (303)	430 (1628)	35.3	42 (19.1)	60 (27)
VF-4" H (101.6)	12.65 (321)	14.56 (370)	ANSI Class Flanges	130 (492)	720 (2725)	59.5	42 (19.1)	60 (27)
MVF-4" H (101.6)	12.65 (321)	14.56 (370)	ANSI Class Flanges	130 (492)	720 (2725)	59.5	42 (19.1)	60 (27)
VF-5" (127)	13.49 (342)	15.68 (398)	ANSI Class Flanges	160 (606)	880 (3331)	73.2	56 (25.4)	80 (36)
MVF-5" (127)	13.49 (342)	15.68 (398)	ANSI Class Flanges	160 (606)	880 (3331)	73.2	56 (25.4)	80 (36)
VF-6" (152.4)	14.98 (380)	17.17 (436)	ANSI Class Flanges	200 (758)	1100 (4163)	89.6	71 (32.2)	100 (45)
MVF-6" (152.4)	14.98 (380)	17.17 (436)	ANSI Class Flanges	200 (758)	1100 (4163)	89.6	71 (32.2)	100 (45)
VF-8" (203.2)	16.85 (427)	19.23 (488)	ANSI Class Flanges	520 (1968)	2000 (7570)	163.2	113 (51.3)	177 (80)
MVF-8" (203.2)	16.85 (427)	19.23 (488)	ANSI Class Flanges	520 (1968)	2000 (7570)	163.2	113 (51.3)	177 (80)
VF-10" (254)	20.80 (528)	23.40 (594)	ANSI Class Flanges	580 (2195)	2950 (11,166)	240.7	203 (92.1)	295 (134)
MVF-10" (254)	20.80 (528)	23.40 (594)	ANSI Class Flanges	580 (2195)	2950 (11,166)	240.7	203 (92.1)	295 (134)
VF-12" (304.8)	26.10 (662)	29.20 (741)	ANSI Class Flanges	1250 (4731)	6700 (25,362)	558.9	293 (132.9)	417 (189)
MVF-12" (304.8)	26.10 (662)	29.20 (741)	ANSI Class Flanges	1250 (4731)	6700 (25,362)	558.9	293 (132.9)	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.



Xylem Inc.
 8200 N. Austin Avenue, Morton Grove, IL 60053
 Phone: (847)966-3700 Fax: (847)965-8379
 www.xylem.com/bellgossett
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