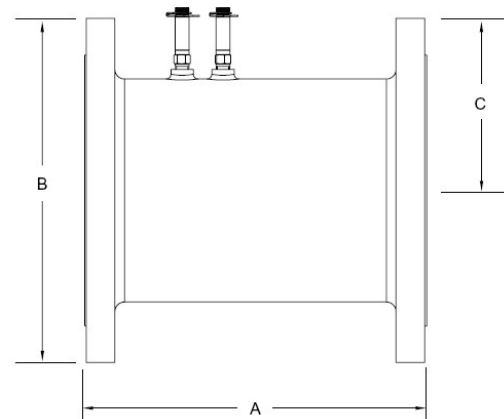


Model VF Venturi Flowmeter features a cast steel venturi flow element. The welded steel insert provides measurement accuracy of $\pm 3\%$ of flow rate. ANSI 150# flanged end connections. Dual extended length Pressure/Temperature ports and Hanging I.D. Tag.




MANUAL

SPECIFICATIONS	
Pressure Ratings:	240 PSI (1654 kPa)
Temperature Ratings:	250°F (120°C)
Accuracy:	$\pm 3\%$ of flow rate
Body Material - Venturi:	ASTM A-126 Grade WCB
End Connections:	ANSI 150# Flanged Optional ANSI 300# Flanged
Metering Ports:	Extended Length Pressure/ Temperature test ports
Available Options:	"PTV" combination PT & Air Vent

NOMINAL DIMENSIONS & WEIGHTS								
MODEL	SIZE		A	B	C	Flow Range GPM (10"-100")	Weight	
							lbs	kg
VF-800	in	8.0"	13.50	13.50	6.75	400.0 - 1800.0	91.0	41.27
	mm	200	342.9	342.9	171.45			
VF-1000	in	10.0"	15.00	16.00	8.00	600.0 - 1700.0	117.5	53.29
	mm	250	381.0	406.4	203.2			
VF-1200	in	12.0"	16.38	19.00	9.50	1000.0 - 3200.0	185.0	83.00
	mm	300	416.0	482.6	241.3			
VF-1400	in	14.0"	24.00	21.00	10.50	1300.0 - 4600.0	305.0	138.34
	mm	350	609.6	533.6	266.7			
VF-1600	in	16.0"	36.00	23.50	11.75	1900.0 - 6400.0	435.0	197.31
	mm	400	914.4	596.9	298.45			

Dimensions not for construction purposes unless certified by factory.

STANDARD COMPONENTS		
	PT & PTE	Pressure / Temperature test port with brass body, dual durometer EPDM core, PTE Extender, brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 500 PSI (3450 kPa) and 275°F (135°C)
Please reference data sheet #Bulletin-MB-Accessories for optional accessories.		

Differential Pressure Table - Model VF - 8.00" to 16.00"

Model MBF / MF, MBG / MG Valves Size 8" - 12" / VF, VG & VW Valves Size 8" - 16"

Differential Pressure: Inches W.C.

Flow GPM	Models MBF/MF, MBG/MG VF, VG & VW		Flow GPM	Models MBF/MF, MBG/MG, VF, VG & VW		
	Model Size			Model Size		
	800	1000		1200	1400	1600
400.0	10		1000.0	10		
425.0	12		1100.0	12		
450.0	13		1200.0	14		
475.0	15		1300.0	16	7	
500.0	16		1400.0	19	8	
525.0	18		1500.0	22	9	
550.0	20		1600.0	25	11	
575.0	21		1700.0	28	12	
600.0	23	10	1800.0	32	13	
625.0	25	11	1900.0	35	15	8
650.0	27	12	2000.0	39	17	9
675.0	29	13	2200.0	47	20	11
700.0	32	14	2400.0	56	24	13
725.0	34	15	2600.0	66	28	16
750.0	36	16	2800.0	77	33	18
775.0	39	18	3000.0	88	37	21
800.0	41	19	3200.0	100	43	24
825.0	44	20	3400.0	113	48	27
850.0	47	21	3600.0	127	54	30
875.0	50	22	3800.0	141	60	34
900.0	52	24	4000.0	156	67	37
925.0	55	25	4200.0	172	73	41
950.0	58	26	4400.0	189	81	45
975.0	62	28	4500.0		84	47
1000.0	65	29	4600.0		88	49
1100.0	78	35	4700.0		92	51
1200.0	93	42	4800.0		96	54
1300.0	109	49	5000.0		104	58
1400.0	127	57	5200.0			63
1500.0	146	65	5400.0			68
1600.0	166	74	5600.0			73
1700.0	187	84	5800.0			78
1800.0	210	94	6000.0			84
1900.0		105	6400.0			95
2000.0		116	6800.0			108
2200.0		141				
2400.0		168				
Size	8"	10"	Size	12"	14"	16"
FF	124.78	185.42	FF	320.04	490.29	655.0

Flow Formulas

$GPM = FF \times (\sqrt{DP})$

$DP = (GPM/FF)^2$

$PPL = DP \times 0.12$

Notes:

- 1) Accuracy ± 3% of flow rate.
- 2) Repeatability ± 0.25% of rate.
- 3) Values in **BOLD** type represents traditional 10" to 100" sizing range.
- 4) All valves will function above and below ranges shown. Pressure drop and readability should be taken into account.

Optional features and accessories available for this Macon product are an extra charge, and not included in the standard model price.

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Section: *Components*

Bulletin-MB-VF-800-1600-0915.04