Amber Instruments Ltd

VF563 Series In-Line Flow Meters

The J-TEC in-line flow meters provide all the advantages of vortex shedding technology, in a design that is perfect for rugged applications with minimal space requirements. The VF563 Series is the best value for your low-pressure gaseous flow applications. This device is the meter of choice especially for the measurement of blow-by gases in engine testing applications. Other vortex flow meters lack crucial sensitivity because they can only detect vortices created by large, restrictive obstructions. This diminishes important low-end performance. The J-TEC design incorporates a small strut, which offers minimal flow restriction, for high accuracy over an extended range. Each meter is individually calibrated to NIST traceable standards. J-TEC flow meters have no moving parts, so they are rugged and trouble-free.

Benefits include: Minimal effect on engine performance during measurement, low pressure drop, drift-free performance, excellent at low flows (down to 0.14 ACFM), easy maintenance, 40:1 turndown ratio, continuous flow readings, high accuracy, excellent repeatability.

SPECIFICATIONS

Measured:	Air or low pressure gas
Flow rate measured:	0.14 ACFM to 600 ACFM (0.24 to 1019 m^3/hr)
Operating temperature:	0° to 200°F (-18° to 93°C)
Operating pressure:	-5 to 30 PSIG (-0.34 to 2.1 BARg)
Accuracy:	+/- 2% full scale (1% of reading with FC911 Flow Computer)
Repeatability:	+/- 0.5% of reading
Input power:	+12 to +24 VDC at 35 mA
Outputs:	0 to 5 VDC, 0 to 3 VDC or Frequency
Construction:	Anodized aluminum
Ambient temperature limits:	-20° to 150°F (-28° to 66°C)
Pressure loss:	As low as 0.1" water column (2.54 mm) Consult factory for actual pressure loss measurements Pressure loss varies with flow rate
Response Time-Analog/Freq:	300 ms analog/10 ms frequency
Connector:	5 pin

FLOW RANGES

Model	VF563AA	VF563A	VF563B	VF563J	VF563K	VF563C	VF563F	VF563G
Line Size In. (mm)	3/8 (9.5)	½ (12.7)	5/8 (15.9)	¾ (19.05)	1 (25.4)	1-3/8 (34.9)	2 (50.8)	4 (101.6)
Range ACFM	0.14 to 5	0.25 to 10	0.40 to 16	0.7 to 27	1 to 50	2 to 80	5 to 200	20 to 600
Range M^3/hr	0.24 to 8	0.42 to 16	1 to 27	1.1 to 43	1.6 to 80	3 to 135	8 to 339	34 to 1019

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