



Engine Blow-By System

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

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 m³/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