



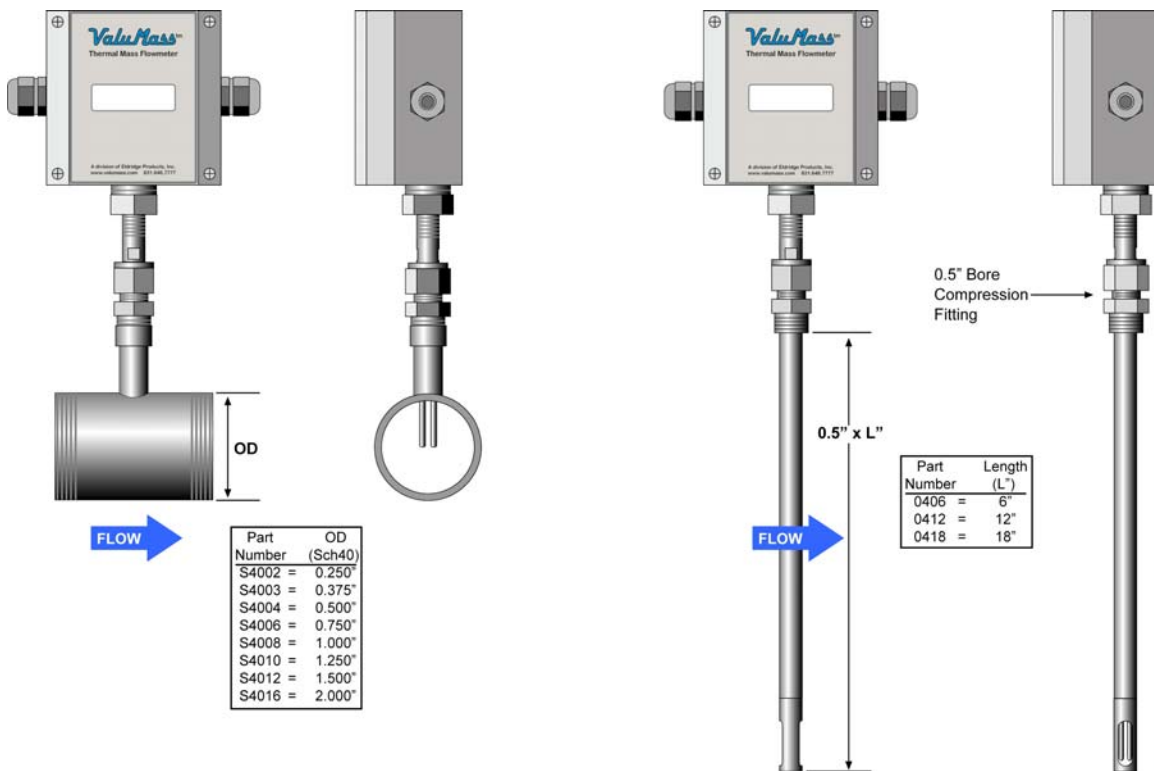
Series 400 ValuMass™ Flowmeters

Low Cost/High Value

Eldridge Products, Inc. (EPI) is a proven leader in gas flow measurement. Our Master-Touch™ thermal dispersion gas mass flowmeters and patented Flow Averaging Tubes set the standard for innovation, performance and reliability. Our ValuMass™ Series 500 flowmeters have enjoyed a successful introduction into the marketplace, and now our new, compact Series 400 offer another lower cost option for many flow applications with the high value associated with all of EPI's flow measurement instrumentation.

ValuMass™ flowmeters include a robust feature set: 0 - 5, 10 VDC, 4 - 20mA, RS485 Modbus RTU and optional 0 - 1 kHz outputs (proportional to the gas mass flow rate); an RS232C port; 16-bit linearization technology for flow rate accuracy; a fully programmable relay; and rugged construction of 316/316L stainless steel wetted parts. An optional 2-line, 16-character backlit LCD displays the flow rate and the elapsed total readouts.

ValuMass™ inline and insertion flowmeters accommodate virtually all installation requirements. The Series 400 inline style flowmeters are available for line sizes from ¼" to 2". The 3 ½" long flow sections have MNPT ends as standard for easy mounting in the process line. Other end fittings are available. The Series 440 insertion style flowmeters are available with 6", 12" or 18" long probes which include a compression fitting. Other mounting options are available. ValuMass™ flowmeters accept 24VDC, 115VAC or 230VAC input power as specified at the time of purchase.



Series 400 ValuMass™ Thermal Flowmeters

Specifications

Accuracy (including linearity).....	± [2% of Reading + (0.5% Full Scale + 0.05% / °C)]
Repeatability	± 0.5% of Full Scale
Linear Signal Output	0 - 5 or 0 - 10VDC, 4 - 20 mA, RS485 Modbus RTU Optional 0 - 1 kHz (proportional to flow for total/counter)
Sensor Response Time.....	1 second
Turndown Ratio	100:1 (not less than 15 SCFM / FT ²)
Transmitter Operating Temperature.....	0° - 130°F (-18° - 55°C)
Temperature Compensation.....	Standard 0° - 150°F (-18 - 66°C) Optional 0° - 250°F (-18° - 121°C)
Gas Pressure Effect	Negligible over ± 20% of absolute calibration pressure
Pressure Rating Maximum:	
Inline Flowmeters	500 PSIG
Insertion Flowmeters	225 PSIG (Stainless Steel ferrule) 25 PSIG (Teflon™ ferrule)
Input Power Requirement	24 VDC @ 250mA 115 VAC 50/60 Hz 100mA optional 230 VAC 50/60 Hz 50mA optional
Transmitter Power Requirements	5 Watts or less
Relay Output Rating	1 Amp @ 30VDC (33W)
Communications	RS-232C, RS485 Modbus RTU
Display	Optional 2-lines, 16 characters per line, backlit LCD
Wetted Materials	316 & 316L Stainless Steel
Standard Temperature & Pressure (STP)	70°F & 29.92" Hg (Air = 0.075 Lbs. / FT ³)
NIST Traceable Calibration	Standard
Enclosure Rating	NEMA 4X (IP66)
Approvals	CE Mark

SPECIFICATION NOTICE

The specifications contained herein are subject to change without notice. EPI cannot guarantee the applicability or suitability of our products in all situations since it is impossible to anticipate or control every condition under which our products and specifications may be used.

LIMITED WARRANTY

EPI warrants its products to be free from defects in materials and workmanship for one year from the date of factory shipment. If there is a defect, the purchaser must notify EPI of the defect within the warranty period. Upon receipt of the defective product, EPI will either repair or replace the defective product at its sole option. EPI MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AS TO THE PRODUCTS. EPI MAKES NO WARRANTY THAT THE GOODS SOLD TO ANY PURCHASER ARE FIT FOR ANY PARTICULAR PURPOSE. FURTHERMORE, EPI MAKES NO WARRANTY OF MERCHANTABILITY WITH RESPECT TO ANY PRODUCTS SOLD TO ANY PURCHASERS. There are no other warranties that extend beyond the description on any brochure or price quote.

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