

T SERIES GAS FLOWMETERS

These rugged flowmeters are constructed of chemically inert PTFE-Glass wetted parts. They offer solutions for low to medium flow range measurements of highly corrosive and ultra-pure gases. Designed for low flow rates, the model "T" flowmeter is a precision instrument embodying the inherent simplicity, versatility and economy of the classical variable area meter. It is particularly suitable for metering carrier gases in chromatography, indicating and controlling gases in manufacturing processes, liquid and gas measurement in laboratories, pilot plants, flow and level indicating, etc.

DESIGN FEATURES

- Constructed of chemically inert wetted parts; borosilicate glass, PTFE and PCTFE
- Rugged black anodized aluminum frame
- Rib-guided or fluted metering tubes facilitate stable/ accurate readings
- Magnifier lens in front shield to enhance reading resolution
- OPTIGRAD™ scales minimize parallax and eye fatigue
- Capable of being panel mounted

Metering Valves

Meters come with built-in standard needle valves with "non-rising stems" which feature a 6 turn. The higher precision metering valves have 16 full turns compared to our 6 turn standard valves and are justified whenever high sensitivity control and resolution is desirable particularly in conjunction with metering tubes of very low flow-rates.

Conversion charts for air and water are supplied with each flow-meter.
Conversion charts for routine gases are supplied on request.

Specifications

STANDARD ACCURACY	±2% FS (mm scales) ±5% FS (direct reading scales)
REPEATABILITY	±0.25%
USEFUL FLOW RANGE	10:1 minimum with one float and better than 20:1 with combination of two floats installed in meters.
MAXIMUM OPERATING PRESSURE	100 psig/6.7 bars.
MAXIMUM OPERATING TEMPERATURE	150°F/ 65°C.
LEAK INTEGRITY	Individually pressure and leak tested and certified to a rating of 1×10^{-7} sccs Helium.



Part Number	Size	Frame Material	Float Material	Max Flow Rate AIR		Max Pressure
				ML/MIN	SCFH	
15990	150mm	Aluminum	Sapphire	73	.155	200psi
15991	150mm	Aluminum	Sapphire	513	1.087	200psi
15992	150mm	Aluminum	Sapphire	3079	6.524	200psi
15993	150mm	Aluminum	Sapphire	11,357	24.064	200psi
15994	150mm	Aluminum	Sapphire	30,711	65.074	200psi

OPTIONAL ACCESSORIES

Part Number	Description	Materials of Construction
15995	Tripod for single channel flowmeter	N/A
15996	1/8" MNPT X 1/4" tube fitting	Stainless Steel
15997	1/8" MNPT X 1/4" tube fitting	Brass
15998	1/8" MNPT X 1/4" hose barb fitting	Stainless Steel
15999	1/8" MNPT X 1/4" hose barb fitting	Brass

NOTE: Specific Gravity Conversion chart available on Smith website.

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EQUIPMENT

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