

## GENERAL DESCRIPTION

**Model T** flow meters incorporate the principles of traditional variable area flow technology.

**These rugged PTFE-Glass flow meters offer solutions to low to medium flow range measurements of highly corrosive or ultra-pure liquids and gases.**

Wetted inert components are surrounded by structurally rigid anodized aluminum. The resultant design represents a unique combination of a rugged mechanically rigid frame and chemically inert wetted parts.

For additional protection of personnel each meter is supplied with a thick protective magnifying safety shield.

\*Glass and Sapphire floats are recommended.

### design features

- ✓ Constructed of inert materials: Borosilicate Glass, PTFE and PCTFE.
- ✓ Chemically inert wetted parts within mechanically rigid 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.
- ✓ Simple means of panel mounting.
- ✓ Interchangeability of flow tubes and floats.
- ✓ Conveniently overlapping flow ranges available in both standard millimeter and "direct reading" scales.



# T

## PTFE-SINGLE GLASS FLOW METERS

### LEAK INTEGRITY

Flow meters are individually tested on a Mass Spectrometer Leak Detector and certified to a leak integrity rating of  $1 \times 10^{-7}$  sccs Helium or better.

### BUILT-IN VALVES

Meters are available with built-in needle valves (CVT™), high precision metering valves (MVT™) with “non-rising stems”, or with no valves. The higher cost of MVT™ valves is justified whenever high sensitivity control and resolution are desirable particularly in conjunction with metering tubes of very low flow rates.

When meters with valves are ordered the valve cartridges are installed at the inlet. For vacuum service it is recommended that meters are ordered with valves at the outlet.

Assorted flow tubes may be used in conjunction with a single mounting frame, an apparent benefit in many laboratory applications.

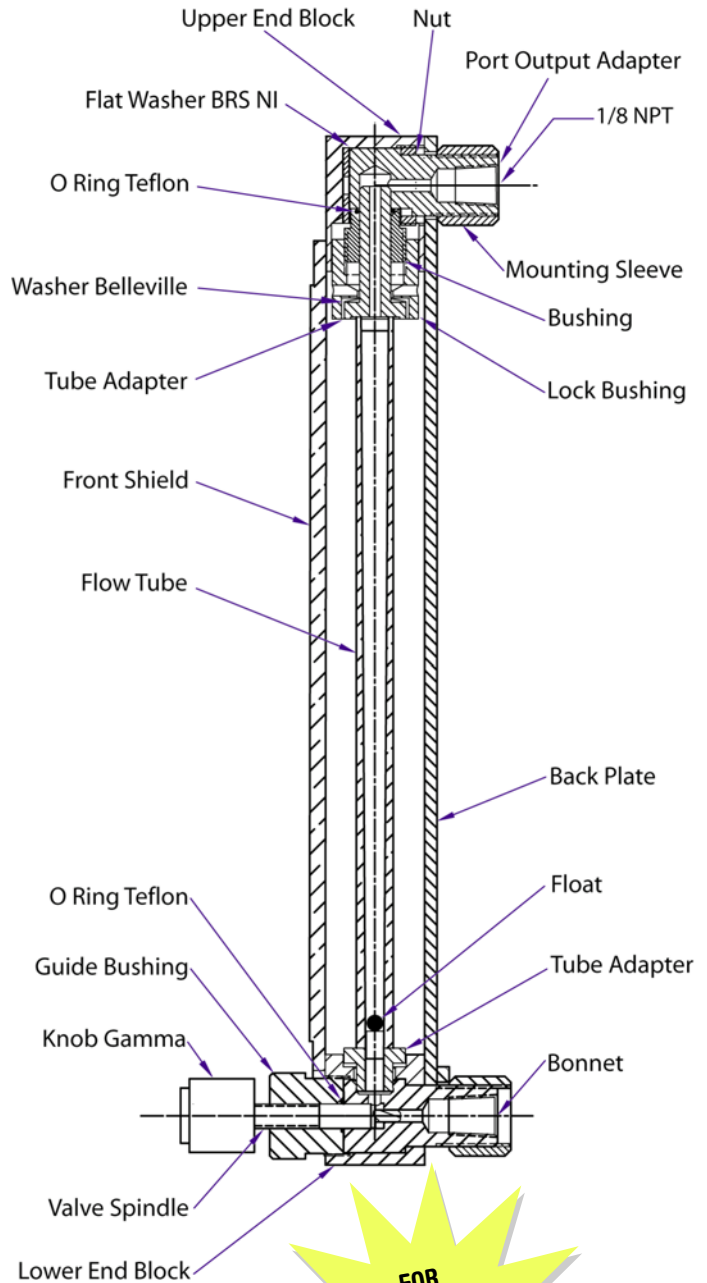
### SPECIFICATIONS

<b>STANDARD ACCURACY</b>	±2% FS mm scales except 042 and 032 flow tubes. ±5% FS direct reading scales 042 and 032 flow tubes.
<b>REPEATABILITY</b>	± 0.25%.
<b>USEFUL FLOW RANGES</b>	10:1 minimum with one float.
<b>MAXIMUM OPERATING PRESSURE</b>	100 psig/6.7 bars.
<b>MAXIMUM OPERATING TEMPERATURE</b>	150 °F/ 65 °C.
<b>LEAK INTEGRITY</b>	Individually pressure and leak tested and certified to a rating of $1 \times 10^{-7}$ sccs Helium.

### \*\*MATERIALS OF CONSTRUCTION

<b>FLOW TUBES</b>	Heavy walled borosilicate glass. (Sapphire or glass floats recommended).
<b>FITTINGS IN CONTACT WITH FLUIDS</b>	Virgin PTFE PCTFE.
<b>SIDE PLATES</b>	Aluminum, black anodized.
<b>FRONT SHIELD AND BACK PLATE</b>	1/8" thick clear polycarbonate and white acrylics.
<b>O-RINGS</b>	PTFE.
<b>CONNECTIONS</b>	1/8" NPT female inlet and outlet connections.
<b>OPTIONAL</b>	glass hose nipples or compression fittings.

\*\*The selection of materials of construction, is the responsibility of the customer. The company accepts no liability.



Panel mounting is convertible to bench mounting through the use of an optional acrylic tripod base with spirit leveler (catalog No. TP1).

**Ordering information see page 26.  
Dimensional information see page 25.**



<b>T</b>	T STYLE METERS	
<b>CODE</b>	NUMBER OF CHANNELS	
<b>1</b>	SINGLE CHANNEL (ONE TUBE)	
<b>2</b>	TWO CHANNEL METER (TWO TUBES)	
<b>3</b>	THREE CHANNEL METER (THREE TUBES)	
<b>4</b>	FOUR CHANNEL METER (FOUR TUBES)	
<b>CODE</b>	SIZE	
<b>6</b>	65 mm	
<b>1</b>	150 mm	
<b>CODE</b>	MATERIAL	
<b>T</b>	PTFE	
<b>CODE</b>	VALVE POSITION	
<b>1</b>	MVT (HIGH PRECISION) INLET	
<b>3</b>	NO VALVE	
<b>4</b>	CVT (STANDARD CARTRIDGE) INLET	
<b>5</b>	MVT (HIGH PRECISION) OUTLET	
<b>6</b>	CVT (STANDARD CARTRIDGE) OUTLET	
<b>CODE</b>	SEALS	
<b>T</b>	PTFE	
<b>CODE</b>	FITTINGS	
<b>A</b>	1/8" FNPT (STANDARD)	
<b>F</b>	1/4" COMPRESSION	
<b>G</b>	0.390 O.D. GLASS HOSE NIPPLES	
<b>CODE</b>	MANIFOLD	
<b>0</b>	NONE (STANDARD FOR SINGLE CHANNEL)	
<b>1</b>	BOTTOM	
<b>2</b>	TOP	

**T** **1** **1** **T** **3** — **T** **F** **0** — **\*TUBE**

## EXAMPLE: T11T3-TF0

T-Style Meter, Single Channel, 150mm, PTFE, No Valve, PTFE Seals, 1/4" compression fittings, No Manifold.

### Optional Accessories

- TP1**-Tripod for single channel meter.
- TP2**-Tripod for 2 and 4 isolated channels or manifolding at top.
- TP3**-Tripod for 3 isolated channels or manifolding at bottom.
- TP5**-Tripod for 3 single tube meters.

### \*Tube selection:

Millimeter tubes: Tables 6 thru 9  
Direct Reading tubes: Tables 11 thru 22.