

## 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 (HRT™) with “non-rising stems”, or with no valves. The higher cost of HRT™ 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.

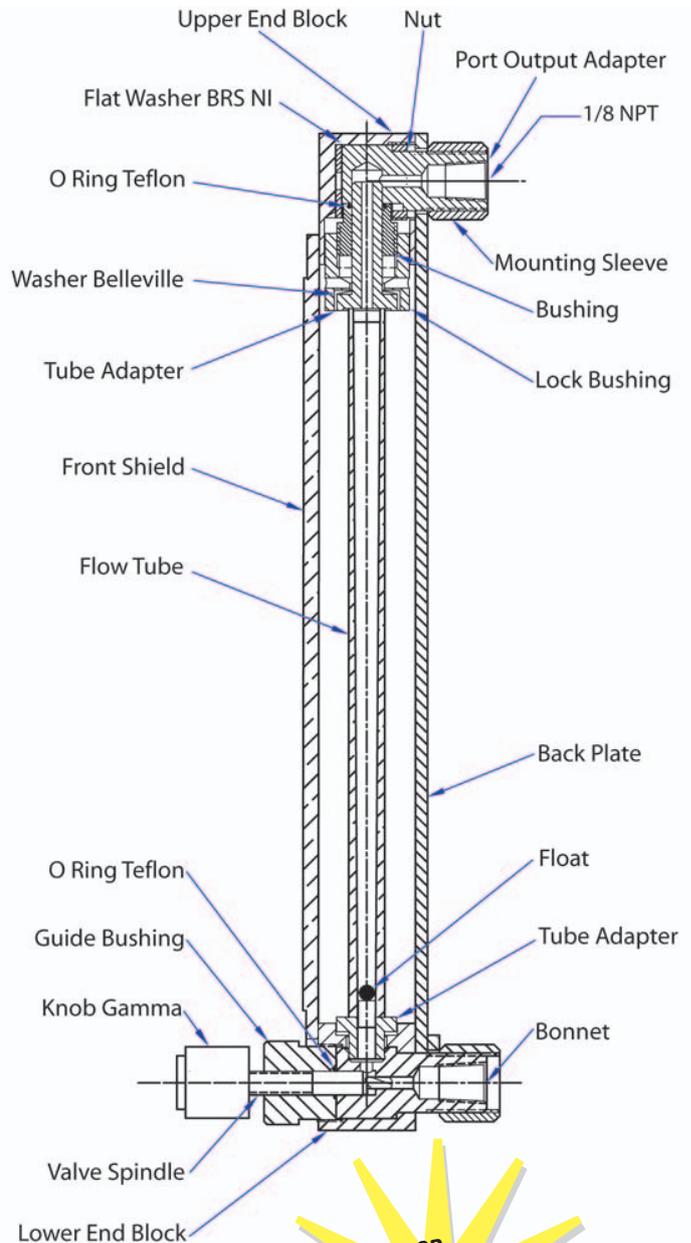
Assorted flow tubes may be used in conjunction with a single mounting frame, an apparent benefit in many laboratory applications.

### SPECIFICATIONS

<b>STANDARD ACCURACY</b>	±2% FS (mm scales) ±5% FS (direct reading scales).
<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.



**FOR  
OPTICAL SENSOR  
SWITCH  
SEE PAGE 18**

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 14.  
Dimensional information see page 13.**