The MTF multiple tube flow meter line offers, the convenience and simplicity of 2, 3, 4, 5 and 6 tube meters, retaining most of the unique design features associated with single tube units. Multiple tube meters are available with 65mm or 150mm flow tubes same as used in single unit flow meters.

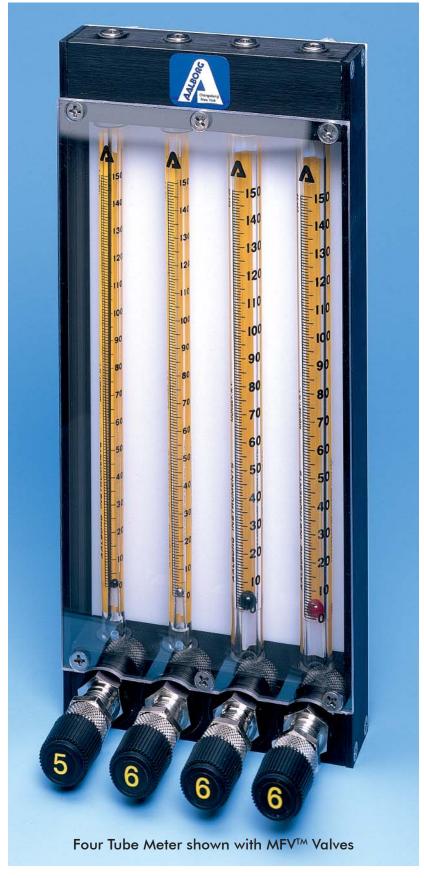
MTF meters are convenient for applications where several streams of gases or liquids are to be metered in individual channels, or manifolded.

Shipped completely assembled, flow meters include standard mounting fittings in a choice of materials, side plates, thick protective front shield and back plate, optional built-in control valve, and flow tubes selected from the Flow Capacities tables.

Panel mounting style is convertible to bench mounting through the use of the optional acrylic tripod. The tripod has a built-in spirit leveler and leveling screws.

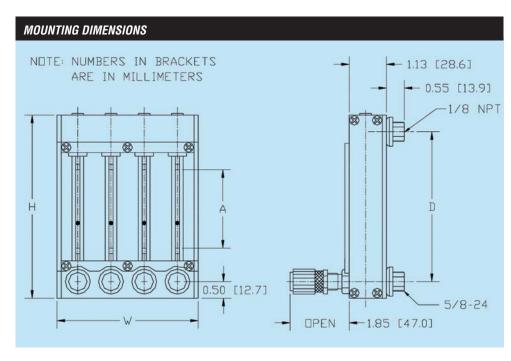
design features

- ✓ Rib-guided or fluted metering tubes facilitate stable, accurate readings.
- ✓ Interchangeability of flow tubes and floats.
- ✓ Manifolding at inlet or outlet.
- Ease of installation and exchange of flow tubes.
- ✓ "Non-rotating" adapter feature glass flow tubes are prevented from turning during the tightening phase of the assembly procedure.
- ✓ OPTIGRAD™ scales minimize parallax and eye fatigue.
- ✓ Chemical compatibility.
- ✓ Simple means of panel mounting.



BUILT-IN VALVES

Meters may be supplied with built-in needle valves (CV™), high precision metering valves (MFV™) with "non-rising stems", or with no valves. Generally for gas metering, it is recommended that valves are positioned at inlets (bottom) for liquids valves may be positioned either at outlets (top) or inlets. For vacuum service, valves must be mounted at outlets. If unspecified at the time of ordering, meters will be shipped with valves mounted at inlets.



SPECIFICATIONS

STANDARD ACCURACY

 $\pm 2\%$ FS mm scales except 042 and 032 flow tubes. $\pm 5\%$ FS direct reading scales 042 and 032 flow. Conforming to ISA RP. 16-1.2.3

Specification 2-S-10. Manifolded models excepted.

CALIBRATED ACCURACY

±1% FS optional.

REPEATABILITY ±0.25%.

USEFUL FLOW RANGE

10:1 minimum with one float. Better than 20:1 with combinations of two floats installed in meters.

MAXIMUM OPERATING PRESSURE

200 psig/13.8 bars.

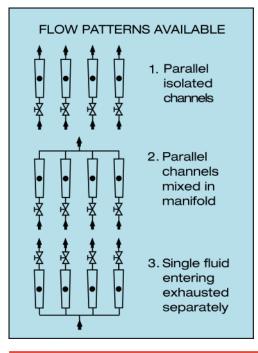
MAXIMUM OPERATING TEMPERATURE

250 °F/ 121 °C.

**MATERIALS OF CONSTRUCTION							
FLOW TUBES	Heavy walled borosilicate glass.						
CHOICE OF MOUNTING FITTINGS IN CONTACT WITH FLUIDS							
	a) Aluminum, black anodized.						
	b) 316 Stainless Steel.						
SIDE PANELS	Aluminum, black anodized.						
FRONT SHIELD AND BACK PLATE							
	1/8" thick clear polycarbonate and white acrylics.						
O-RINGS AND PACKING							
	Buna-N [®] O-rings in aluminum model.						
	Viton® O-rings in stainless steel meters.						
	OPTIONAL Viton®, PTFE/Kalrez®, EPR.						
CONNECTIONS	1/8" NPT female inlet and outlet connections.						
OPTIONAL:	1/4" FNPT, hose & compression fittings are available.						

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

Ordering information see page 21.



The built-in-valves are always installed in the end block opposite to the manifolded one.

Thus, if a meter is manifolded at the outlet, valves are installed at the inlets; if a meter is manifolded at the inlet, valves are installed at the outlets.

DIMENSIONS FOR P STYLE METERS										
	ALL P Meters		WIDTH (W)							
SCALE LENGTH (A)	HEIGHT (H)	CENTER TO CENTER (D)	1 TUBE	2 TUBE	3 TUBE	4 TUBE	5 TUBE	6 TUBE		
65mm	5.500	4.500	1.250	2.250	3.250	4.250	5.250	6.250		
150mm	9.813	8.813	1.250	2.250	3.250	4.250	5.250	6.250		