

MULTIPLE TUBE FLOW METERS

The **Model Px** 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.

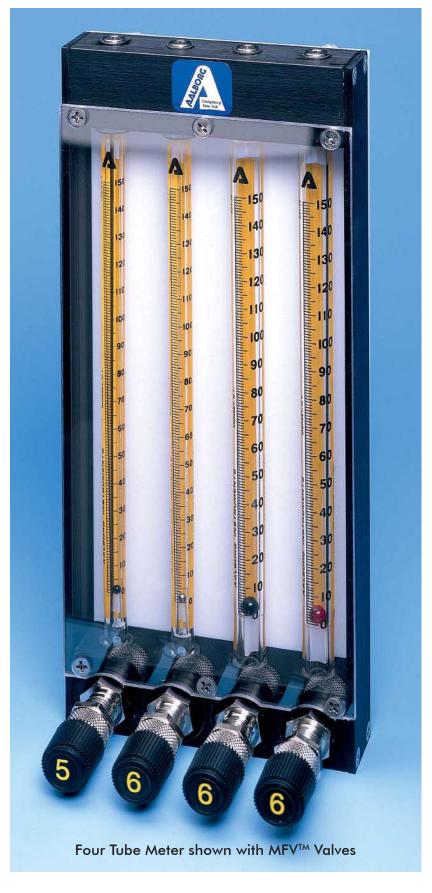
Px meters are convenient for applications where several streams of gases or liquids are to be metered in individual channels, or manifolded.

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.

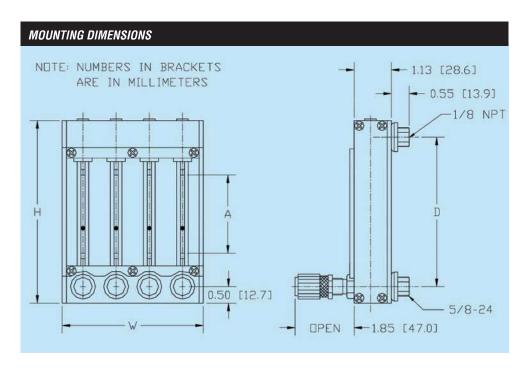


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BUILT-IN VALVES

Meters may be supplied with built-in needle valves (CV™), precision high 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

±2% FS mm scales except 042 and 032 flow tubes. ±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

**MATERIALS OF CONSTRUCTION

200 psig/13.8 bars.

MAXIMUM OPERATING TEMPERATURE

250 °F/ 121 °C.

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

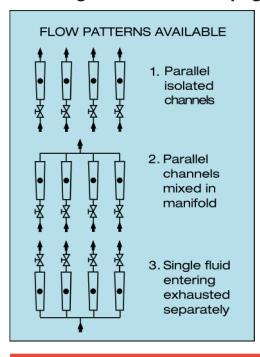
Buna-N® O-rings in aluminum model. Viton® O-rings in stainless steel meters.

OPTIONAL Viton®, PTFE/Kalrez®, EPR.

CONNECTIONS 1/8" NPT female inlet and outlet connections.

OPTIONAL: 1/4" FNPT, hose & compression fittings are available.

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												
SCALE LENGTH (A)		L P Ters	WIDTH (W)									
	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				

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



ORDERING INFORMATION MODEL P METERS

PF	P STYLE	METERS								
' '			OF OLIAN	NELO						
	CODE 1	NUMBER OF CHANNELS								
	2	SINGLE CHANNEL (ONE TUBE) TWO CHANNEL METER (TWO TUBES)								
	3	THREE CHANNEL METER (TWO TUBES)								
	4									
	5	FOUR CHANNEL METER (FOUR TUBES) FIVE CHANNEL METER (FIVE TUBES)								
	6	SIX CHANNEL METER (FIVE TUBES)								
	U	CODE SIZE								
		6 65 mm								
			150 mm							
				NAATEDIA	1					
				MATERIA						
				ALUMINU	الاال					
			B BRASS S STAINLESS STEEL							
			0							
				CODE		POSITIO				
				1			ECISION) INLET			
				3 4	NO VAL		D CARTRIDGE) INLET			
				5			ECISION) OUTLET			
				6			D CARTRIDGE) OUTLET			
				Ů	01 (01)		,			
						CODE	SEALS VITON® STANDARD ON STAINLESS METERS			
						B	BUNA® STANDARD ON BRASS AND ALUMINUM			
						E	EPR			
						T	PTFE / KALREZ®			
							CODE FITTINGS			
							A 1/8" FNPT (STANDARD)			
							B 1/4" FNPT			
							C 1/8" HOSE NIPPLE			
							D 1/4" HOSE NIPPLE			
							E 1/8" COMPRESSION			
							F 1/4" COMPRESSON			
							H VCR FITTINGS			
							CODE MANIFOLD			
							0 NONE (STANDARD FOR SINGLE CHANNEL)			
							1 BOTTOM			
							2 TOP			
Р	1	1	А	4	_	В	B 0 *TUBE			

EXAMPLE: P11A4-BB0

P Style Meter, Single Channel, 150 mm, Aluminum, Standard Valve at inlet, Buna Seals, 1/4" fitting, No Manifold.

Optional Accessories

TP1-Tripod for single channel meter.

TP2-Tripod for 2, 4 and 6 isolated channels or manifolding at top.

TP3-Tripod for 3 and 5 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.