

Incorporating the principles of traditional rotameter flow technology, these rugged PTFE-PFA flow meters offer solutions to low to medium flow range measurements of highly corrosive or ultra-pure liquids.

Model L meters are constructed of inert materials: PFA, PTFE, and PCTFE. The unique design construction brings about an inert, mechanically rigid flow meter line.

Flow meters are also resistant to external, ambient corrosives.

For the protection of personnel each flow meter is supplied with a safety shield.

Flow meters are supplied with or without built-in needle valves and they are panel mountable.

design features

- ✓ Constructed from PFA PTFE and PCTFE.
- ✓ Overlapping flow ranges are available for water from 5 mL/min (0.00132 GPM) to 45 L/min (12 GPM).
- ✓ Individually leak tested.

High Range PTFE meter with Valve



Low Range PTFE meter with Valve

LEAK INTEGRITY

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



PTFE - PTFA FLOW METERS

PRINCIPLES OF OPERATION

A cylindrical float freely moving inside a tapered flow tube comprises the flow measurement element of PTFE - PFA flow meters. The translucent PFA flow tube is installed vertically in-line in the liquid stream.

As flow takes place the float is propelled up inside the flow tube. The area between the float and the inside diameter of the flow tube gradually increases with increasing flow and correspondingly the pressure lifting the float decreases until the weight of the float and its buoyant force come to equilibrium. At equilibrium the top of the float is lined up with a scale graduation on the flow tube denoting a discrete rate of flow.

SPECIFICATIONS	
SCALES	Direct reading scales for liquids with 1.0 specific gravity.
ACCURACY	±5% of full scale.
MAXIMUM TEMPERATURE	250 °F (121 °C).
MAXIMUM PRESSURE	100 psig (6.7 bars).
LEAK INTEGRITY	Individually pressure and leak tested and certified to a rating of 1×10^{-7} sccs of Helium.

**MATERIALS OF CONSTRUCTION	
FLOW TUBES	Teflon™ PFA
FITTINGS	Teflon™ PFA
FLOATS	Teflon™ PFA
GUIDE RODS	PCTFE

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

DIMENSIONS FOR L STYLE METERS									
METER SIZE	A	B	C	D	E	F	G	H	SCALE LENGTH
C	4.97	0.56	0.812	3.42	3.22	1.65	1.50	6.16	75mm
D	4.97	0.56	1.00	4.72	4.32	1.95	1.75	6.16	75mm
E	8.72	0.88	1.50	4.64	4.14	2.25	2.25	10.47	125mm
F	8.47	1.00	1.50	6.00	5.06	2.80	2.50	10.47	125mm

ORDERING INFORMATION					
L STYLE LOW RANGE METERS					
METER SIZE	MODEL NUMBER		CONNECTION	MAXIMUM FLOW	
	BUILT IN VALVE	NO VALVE		[mL/min] WATER	[gph] WATER
C	L6C-L01-01-SA	L3C-L01-01-SA	1/4" FNPT	75	1.19
	L6C-L02-01-TF	L3C-L02-01-TF	1/4" FNPT	250	3.96
	L6C-L03-01-TF	L3C-L03-01-TF	1/4" FNPT	400	6.34
	L6C-L04-01-TF	L3C-L04-01-TF	1/4" FNPT	500	7.92
	L6C-L05-01-TF	L3C-L05-01-TF	1/4" FNPT	1000	15.85
D	L6D-L06-01-TF	L3D-L06-01-TF	3/8" FNPT	2000	31.69
	L6D-L07-01-TF	L3D-L07-01-TF	3/8" FNPT	2500	39.62
	L6D-L08-01-TF	L3D-L08-01-TF	3/8" FNPT	3000	47.54
	L6D-L09-01-TF	L3D-L09-01-TF	3/8" FNPT	5000	79.23

L STYLE HIGH RANGE METERS					
METER SIZE	MODEL NUMBER		CONNECTION	MAXIMUM FLOW	
	BUILT IN VALVE	NO VALVE		[L/min] WATER	[gpm] WATER
E	L6E-L10-01-TF	L3E-L10-01-TF	1/2" FNPT	13	3.43
	L6E-L11-01-TF	L3E-L11-01-TF	1/2" FNPT	20	5.28
F	L6F-L12-01-TF	L3F-L12-01-TF	3/4" FNPT	30	7.93
	L6F-L13-01-TF	L3F-L13-01-TF	3/4" FNPT	40	10.57
	L6F-L14-01-TF	L3F-L14-01-TF	3/4" FNPT	45	11.89

MOUNTING DIMENSIONS

