

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.



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 X 10⁻⁷ sccs Helium or better.



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.

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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	В	C	D	E	F	G	H	SCALE Length
С	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	MODEL	NUMBER	001115071011	MAXIMUM FLOW				
SIZE	BUILT IN VALVE	NO VALVE	CONNECTION	[mL/min] WATER	[gph] WATER			
	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			
С	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			
	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			
D 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	MODEL	NUMBER	CONNECTION	MAXIMUM FLOW				
SIZE	BUILT IN VALVE	NO VALVE	CONNECTION	[L/min] WATER	[gpm] WATER			
F	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			
	L6F-L12-01-TF	L3F-L12-01-TF	3/4" FNPT	30	7.93			
F	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			



