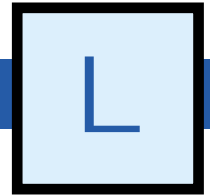


Teflon® PTFE - PFA Flowmeters



Incorporating the principles of traditional variable area flow technology, these rugged Teflon® PTFE-PFA flowmeters offer solutions to low to medium flow range measurements of highly corrosive or ultra-pure liquids.

Model L Meters are constructed of inert materials such as PFA, Teflon® PTFE and PCTFE. Wetted inert components are surrounded by structurally rigid materials such as PFA-clad aluminum, KYNAR®. The resultant design represents a unique combination of a rugged mechanically rigid frame and the chemically inert wetted parts.

Flowmeters are also resistant to external, ambient corrosives. For the protection of personnel each flowmeter is supplied with a safety shield.

Flowmeters are supplied with or without built-in needle valves and they are panel mountable, by means of KYNAR® panel nuts.

Leak Integrity

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

Design Features

- * Chemically inert wetted components constructed from PFA Teflon® PTFE and PCTFE
- * Non-fluid contacting structurally rigid frame constructed from PFA-clad aluminium and KYNAR®
- * Overlapping flow ranges are available for water from 5 ml/min (0.00132 GPM) to 45 L/min (12 GPM).
- * Individually leak tested

Built in Valves

Flowmeters are supplied with or without built-in needle valves.

Low Range Teflon
meter without valve

High Range Teflon
meter with valve ®



**FLOW METERS
FLOW CONTROLS**

10610 - 172 Street, Edmonton, Alberta
Canada T5S 1H8

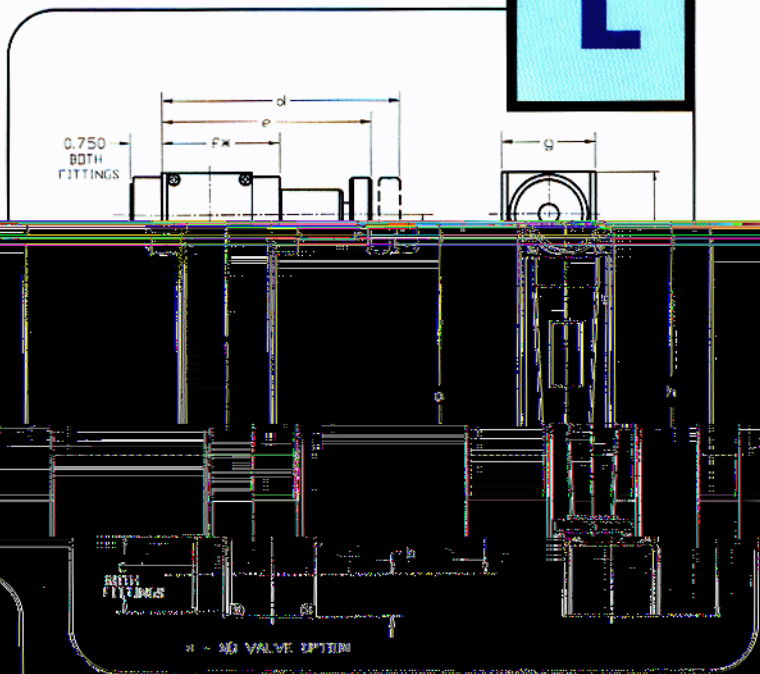
Phone: (780) 486-2400 Fax: (780) 486-2500
Toll Free: 1-800-661-8823

Email: info@muiscontrols.com
www.muiscontrols.com

Principles of Operation

A cylindrical float freely moving inside a tapered flowtube comprises the flow measurement element of Teflon® PTFE - PFA flowmeters. The translucent PFA flowtube is installed vertically in-line in the liquid stream. As flow takes place the float is propelled up inside the flowtube. The area between the float and the inner diameter of the flowtube 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 flowtube indicating a characteristic of flow.

Dimensions



Aalborg® - is a registered trademark of Aalborg Instruments & Controls, Inc.
 Teflon® - is a registered trademark of DuPont.
 Kynar® - is a registered trademark of Alchem North America, Inc.

Materials of Construction

Flowtubes: Teflon® PFA.

Floats: Teflon® PTFE.

Wetted Parts: PFA (flowtubes) and Teflon® PTFE (lead fittings and floats) and PTFE (guide-rod).

Specifications

Table 21 - Low Range Meters

Model	Flow Range	Pressure	Temperature	Material	Accuracy
LSWAS	no	LSWAS	yes	1/4" FNPT	1000-15.85
LSWBS	no	LSWBS	yes	3/8" FNPT	2000-31.69
LSWAS	no	LSWAS	yes	1/4" FNPT	1000-15.85
LSWBS	no	LSWBS	yes	3/8" FNPT	2000-31.69

Table 22 - High Range Meters

Model	Flow Range	Pressure	Temperature	Material	Accuracy
LSWAS	no	LSWAS	yes	1/4" FNPT	10-100
LSWBS	no	LSWBS	yes	3/8" FNPT	20-31.69
LSWAS	no	LSWAS	yes	3/8" FNPT	10-100
LSWBS	no	LSWBS	yes	3/8" FNPT	20-31.69
LSWAS	no	LSWAS	yes	3/4" FNPT	45-11.80

Table 23 - Dimensions for all flowmeters

Model	Flow Range	Pressure	Temperature	Material	Accuracy	Flow Range	Pressure	Temperature	Material	Accuracy
LSWAS	no	LSWAS	yes	1/4" FNPT	10-100	1000	15.85	1000	15.85	1000
LSWBS	no	LSWBS	yes	3/8" FNPT	20-31.69	2000	31.69	2000	31.69	2000
LSWAS	no	LSWAS	yes	3/8" FNPT	10-100	1000	15.85	1000	15.85	1000
LSWBS	no	LSWBS	yes	3/8" FNPT	20-31.69	2000	31.69	2000	31.69	2000
LSWAS	no	LSWAS	yes	3/4" FNPT	45-11.80	4500	11.80	4500	11.80	4500

*Dimensions are in inches, except as shown in (mm); for certified dimensions contact the factory.