

Horizontally/Vertically mounted Rotameters

Gases/Liquids

Introduction:

MCFS range of rotameter are available in more than 20 different models, virtually covering all industrial and research applications meeting all electrical, thermal, mechanical, environmental specifications. These flow indicators are first choice for online monitoring flow rate along with switching facility of fuel oil, corrosive fluids, hydrocarbon, gases, and water with very high degree of accuracy/repeatability. These flow indicators are available in different constructional material like Teflon, PP, SS-316L, and Brass to meet any on-site operational requirement. These are simple to installation (flanged, threaded or glued connection) with flexible mounting and offers consistent performance over large thermal range (400°C) with no moving parts./Scaled directly in l/h, m3/h or % etc with repeatable accuracy. /Switching facility between 10% to 100% & High pressure upto 40 bars./4-20 milli-ampere output (10 points)with (optional) NO/NC(220 volts/1.0 amps).These are operationally compatibility with all corrosive/non-corrosive liquids.

Working Principle:

The fluid flows up through the flow switch, sets up thermal gradient along sensor tube, which is related to flow rate of fluid. This thermal gradient is measure by thermopile and is amplified/compared against set point to achieve desired control action. The pressure drop across the flow switch is negligible and is consistent over entire flow range. Polarity of output signal reverses when flow direction reverses and is useful in providing interlocking signal.



MRML-050005



MRML-080003



MRML-050003



MRML-080004



MRMG-03005

ELECTRICAL/MECHANICAL SPECIFICATIONS OF ROTAMETER

MRML SERIES FLOW RANGE <100,000.0 LPH

model	Flow range (LPH)	Size(inch)	Accuracy	Repeatability	Flow tube-Liner	O.D.P.	leak rate	Output signal
MRML-0001	1000.0	1/2	99.5	100	option	2000	<1.8x10 ⁻⁴	Option
MRML-0002	2000.0	3/4	99.5	100	option	2000	<1.8x10 ⁻⁴	option
MRML-0004	4800.0	1.0	99.5	100	option	2000	<1.8x10 ⁻⁴	Option
MRML-0007	7000.0	1.5	99.5	100	option	2000	<1.8x10 ⁻⁴	option
MRML-0010	10,000.0	2.0	99.5	100	option	2000	<1.8x10 ⁻⁴	Option
MRML-0020	20,000.0	3.0	99.5	100	option	2000	<1.8x10 ⁻⁴	option
MRML-0050	50,000.0	4.0	99.5	100	option	2000	<1.8x10 ⁻⁴	Option
MRML-0100	100,000.0	6.0	99.5	100	option	2000	<1.8x10 ⁻⁴	option
MRML-0200	200,000.0	8.0	99.5	100	option	2000	<1.8x10 ⁻⁴	Option
MRML-0500	500,000.0	10.0	99.5	100	option	2000	<1.8x10 ⁻⁴	option
MRML-0800	800,000.0	12.0	99.5	100	option	2000	<1.8x10 ⁻⁴	Option
MRML-1000	1000,000.0	14.0	99.5	100	option	2000	<1.8x10 ⁻⁴	option

Technical specifications:

- Flow range: 1.0 to 100,000 LPM
- Max Pressure: 600 PS
- Pressure drop: 0.1 – 1.0 psi/cm²
- Connection size: 1/2" – 6"
- Flow tube material: SS-316, Brass, Glass, P.P and ceramic coated M.S. as applicable
- Accuracy error: +/- 5.0% (max) of reading
- Repeatability: 100% of reading
- Viscosity: as per medial
- Control: on/off
- Switching operation life: 6000 hours

Bold numeral after product code indicates the flow rate (lpm) and last digits corresponds toe material for flow tube (Brass-1, SS-316-2, Polymers-3, Ceramic coated Brass/MS-4 and Glass-5). As for example, MCFS-20003 corresponds to flow switch of 200 lpm (max) and flow tube material made up of Polypropylene



MRML-050003 with switching

MOTORON SEMICONDUCTORS CORPORATION

11, Shri Nagar Colony, Shakti Nagar Extension, Delhi-110052 .Tel: 011-23655454/23648181
 motoronenergy@hotmail.com