

Model P001 Piston Flow Meter (Frequency) 0.005 to 200 cc/min

SPECIFICATIONS

Flow Range	0.005 to 200 cc/min – dependent on viscosity
Accuracy (3 cP)	± 0.2% of reading over a 200:1 range
Maximum Operating Pressure	500 bar (7250 psi)
Displacement	0.3 cc/rev
Weight	0.9 kg
Recommended Filtration	5 micron
Port Size(s)	1/4" or 6mm tube fitting
Fluids	Most non aqueous, organic liquids
Dimensions	Ø 57mm x 90mm tall (Ø 2.3" x 3.5" tall)

MATERIALS OF CONSTRUCTION

Body	Case hardened stainless steel, type 316
Pistons	Case hardened stainless steel, type 316
Crankshaft	Stainless steel, type 316
Bearings	Hybrid - ceramic balls with enhanced corrosion resistant stainless steel
O Rings	Viton®- standard, Perfluoroelastomer - option

FREQUENCY TRANSMITTER

Output Signal	5 Vdc single phase – standard (typical k-factor, 12,000 pulses/cc) Quadrature square wave – optional (typical k-factor 24,000 pulses/cc) Current sinking single phase – optional
Power Supply Requirements	5-26 Vdc @ 30ma
Ambient Operational Range	-40°C to 80°C, Single piece – Two piece to 110°C
Metered Liquid Temp Range (based on 20° ambient)	-40°C to 90°C, Standard model -40°C to 155°C, Two piece high temperature model -40°C to 225°C, Two piece, ultra high temperature model
Compliance	CE Certified, Ex-proof version available with ATEX/IECEx II 2 G Ex d IIB Tx Gb as well as UL, cUL certification for Class 1, Division 1, Groups C and D, Tx



P001 Standard

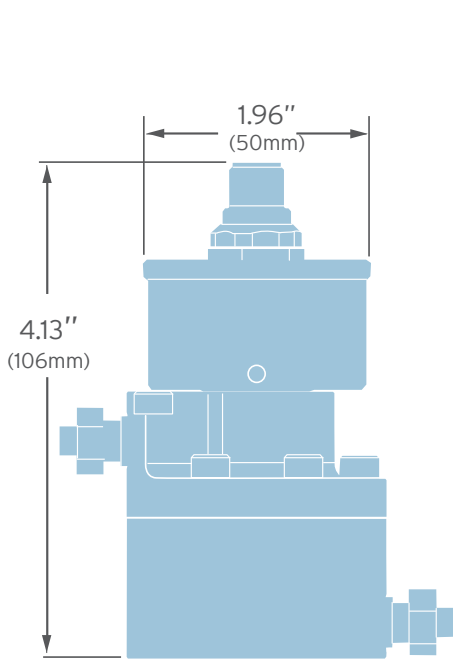


P001 Two piece
(ultra-high temp. model)

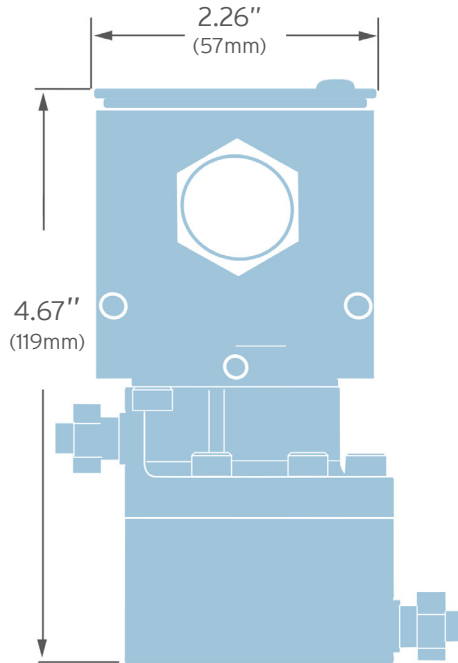


P001 Ex-Proof
housing

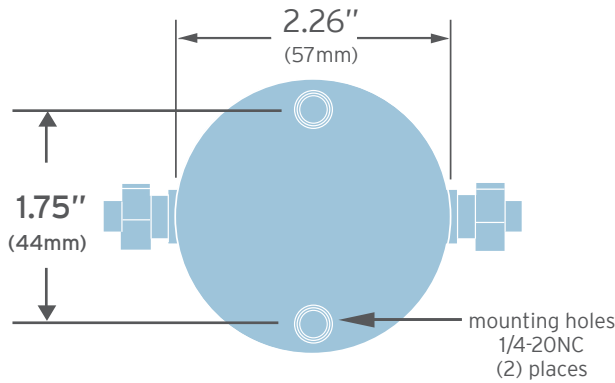
Model P001 Piston Flow Meter (Frequency)



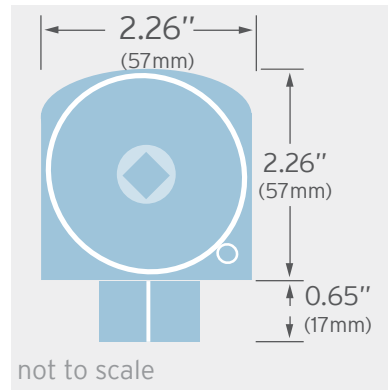
Model P001 meter with industrial transmitter



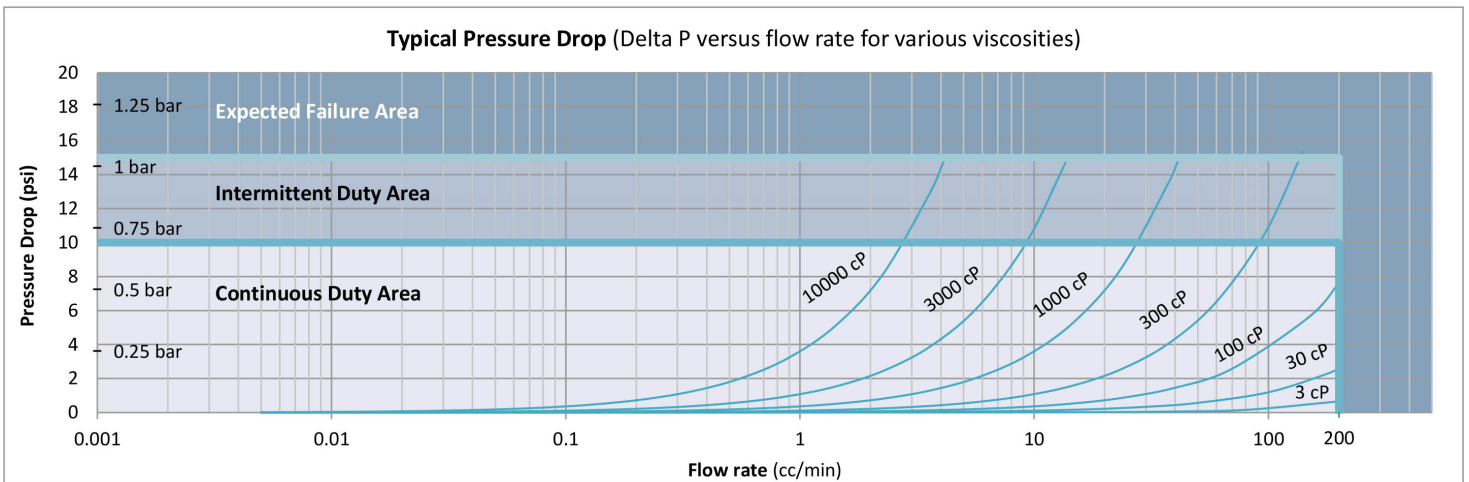
Model P001 meter with Explosion Proof transmitter



Bottom View



Top View of Explosion Proof Enclosure



Positive Displacement Flow Meters Piston Type, 7250 psi (500 bar) rated

Flow Meter Selections

Transmitter Selections

Model #	P001	HS	3		NA	/					/	1	
Max flow range	0.2 Liters/min	P001	3									1	
Pressure	7250 psi (500 bar)	HS											
Fluid Connection	1/4" and 6mm Tube	3											
Seal Selection	Viton® - FKM	1											
	Perfluoroelastomer - FFKM	5											
Options	None	NA											

Output Type	A	A	A	A	P	Q	P
	A	B	C	D	N	N	S
	<ul style="list-style-type: none"> 4-20mA output - powered by 24Vdc 4-20mA output - powered by 12Vdc 0-10Volt output - powered by 24Vdc 0-10Volt output - powered by 12Vdc 5V Pulse/Quad - powered by 5-26Vdc 5V Quadrature - powered by 5-26Vdc Current Sinking, single phase 						
Temperature rating	1	2	3				
	90°C	155°C - 2 part tach*	225° C - 2 part tach*				
Electrical Connection	1	2					
	Turck® connector	Hazardous location*					
SIGNAL TYPE	P	A	Q				
	Pulse	Analog	Quadrature				

Product includes single directional calibration, bi-directional calibrations for Analog and Quadrature devices are optional.

* Consult factory regarding 130°C maximum and other temperature limitations for hazardous location installations.