



Max Machinery, Inc.  
an ISO 9001:2008 certified company

## Model P001 Piston Flow Meter (Analog)

### 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, or ± 2mV (or 4µA), whichever is greater
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	Stainless steel, type 440C; ceramic bearing option
O Rings	Viton®- standard, Perfluoro elastomer - option

#### ANALOG TRANSMITTER

Output Signal	Any range of ± 10V or ± 20mA Linearized and damped with anti-dither protection
Power Supply Requirements	Two Models: 12Vdc @ 90 mA, 24Vdc @ 45 mA
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

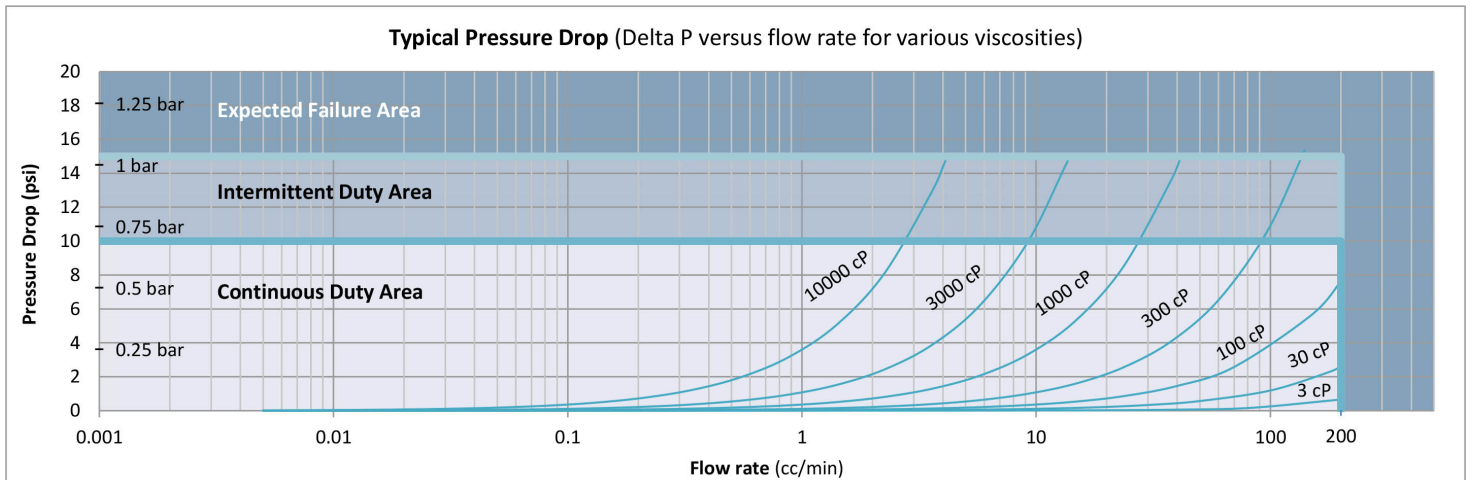


P001 Two piece  
(ultra-high temp. model)



P001 Ex-Proof  
housing

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# Positive Displacement Flow Meters Piston Type, P Series

Flow Meter Selections					Transmitter Selections					
Model #	P		HS		NA	/				/1
Max flow range										↑ 1 Revision Level
0.2 Liters/min	001		3							↑ Output Type / Power required
2 Liters/min	002		2							A Current - 24Vdc
										B Current - 12Vdc
										C Voltage - 24Vdc
										D Voltage - 12Vdc
										N Pulse/Quad - 5 to 26Vdc
										S Current Sinking, single phase
Pressure										↑ Temperature rating*
7250 psi			HS							1 90°C
										2 155° C - 2 part tach**
										3 225°C - 2 part tach**†
Fluid Connection										↑ Electrical Connection
			SAE	2						1 Turck® connector
1/4" or 6mm tube				3						2 Hazardous location*
Seal Selection										↑ Signal Type
			Viton®	1						P Pulse
			Perfluoro	5						A Analog
										Q Quadrature
Options										
					N/A					
					NA					

\* See temp chart in the Piston manual

\*\* Receiver portion of 2 part transmitters are not rated Ex-Proof, consult factory

† Not available for hazardous location use. (Exceeds 130°C temp. limit.)