

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	Stainless steel, type 440C; ceramic bearing option
O Rings	Viton®- standard, Perfluoro elastomer - 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, UL, cUL certification for Class 1, Division 1, Groups C and D



P001 Standard



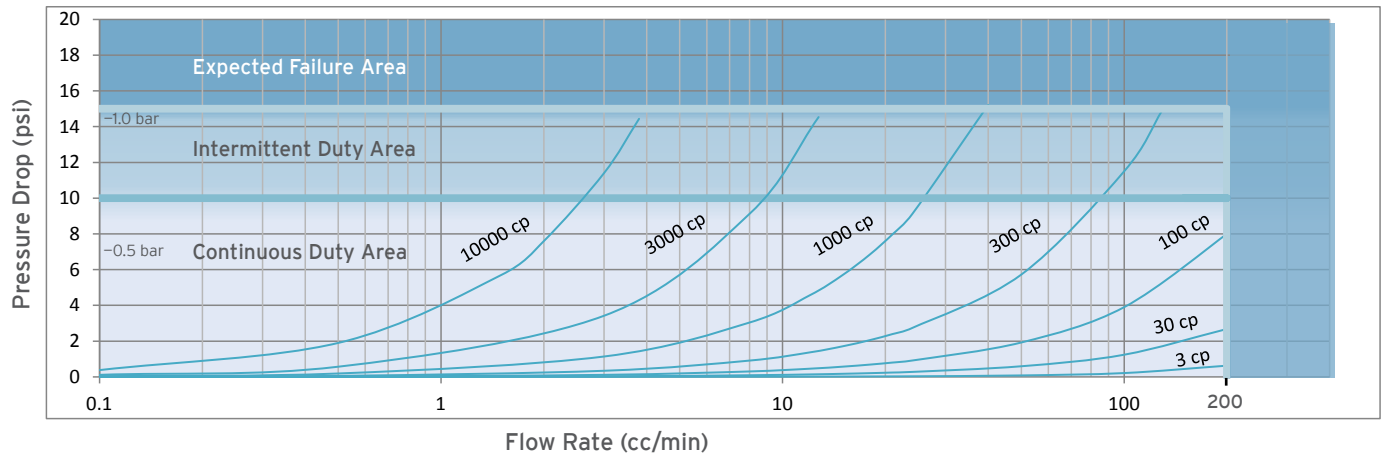
P001 Two piece
(ultra-high temp. model)



P001 Ex-Proof
housing

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TYPICAL PRESSURE DROP (Delta P versus Flow rate for various viscosities)



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

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

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