

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

SPECIFICATIONS

Flow Range	0.005 to 200 cc/min
Accuracy (3 cP)	± 0.2% of reading over a 200:1 range
Maximum Operating Pressure	7250 psi (500 bar)
Weight	1.1 kg
Recommended Filtration	5 micron
Port Sizes	1/4" or 6mm tube fitting
Fluids	Most non-aqueous, hydrocarbon based fluids

MATERIALS OF CONSTRUCTION

External	Stainless steel, type 316; Xylan coated bolts
Wetted	Stainless steel, type 316, Case Hardened type 316, Specialty 400 Series; Nickel plated SmCo magnet
O-Rings	Standard: Viton® Optional: Perfluoroelastomer

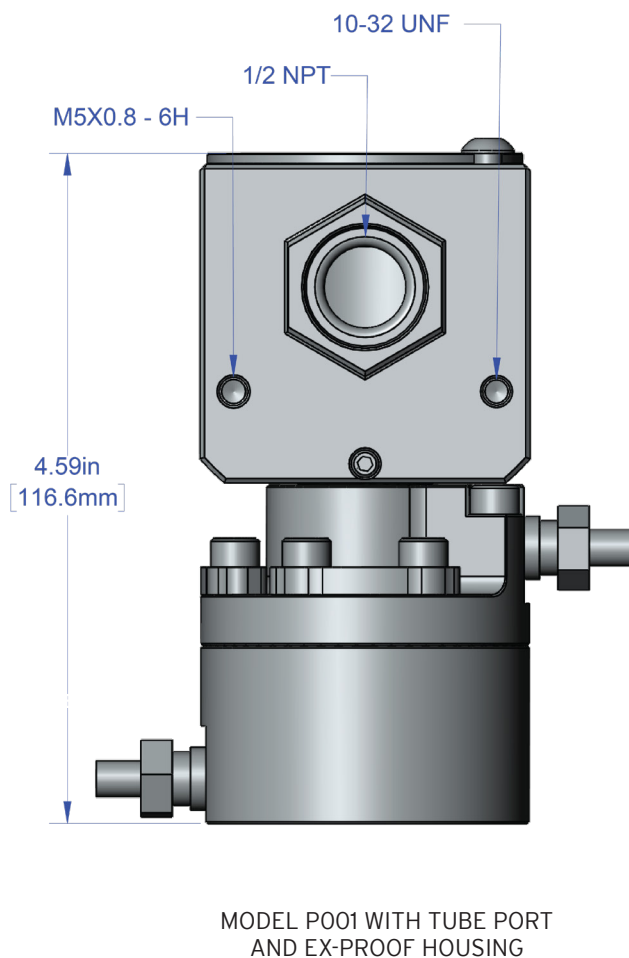
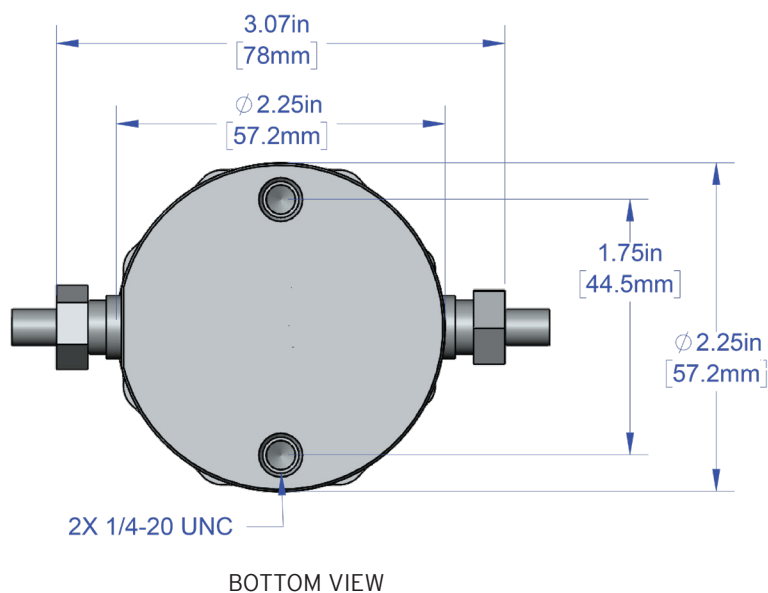
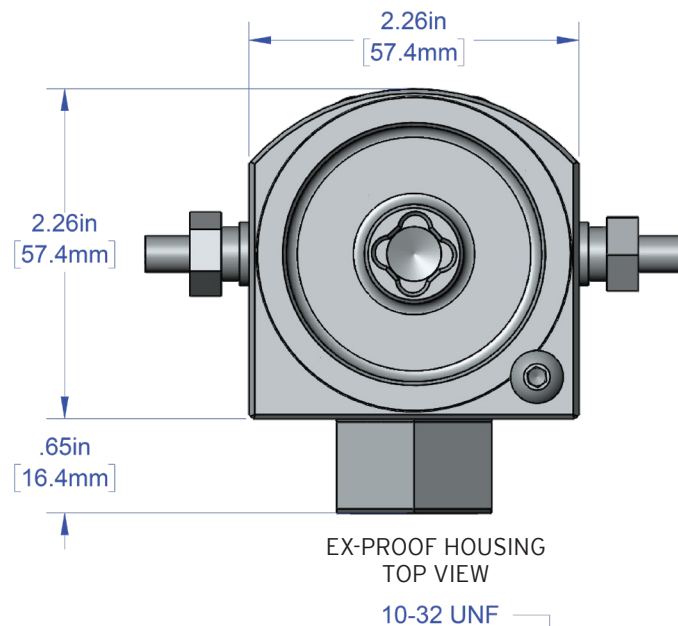
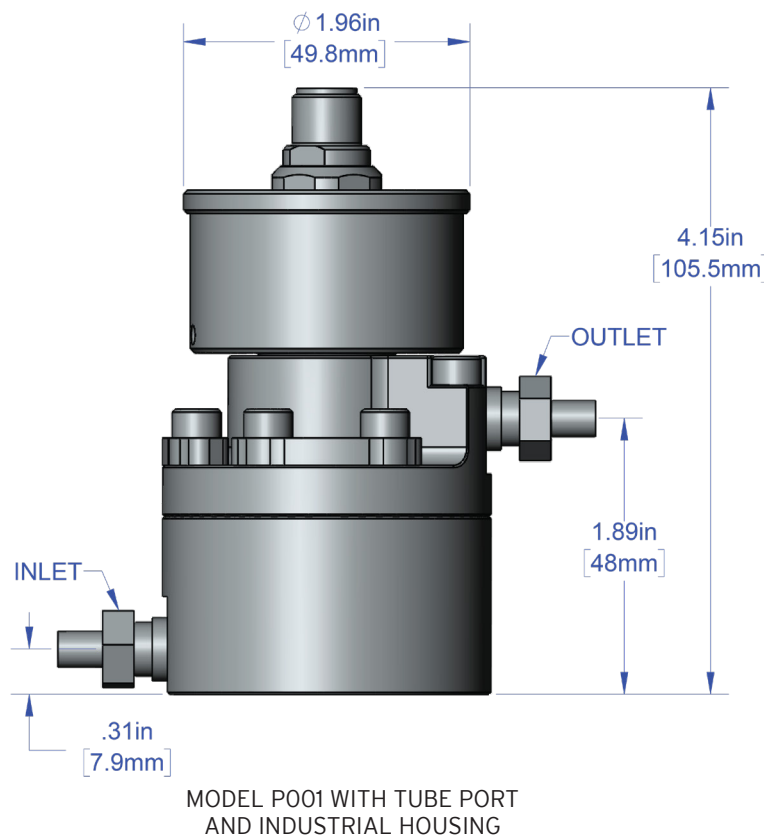


FREQUENCY TRANSMITTER

Output Signal	Standard: 5 Vdc, single phase Optional: Quadrature 5 Vdc, two phase Current sinking, 20 mA max., single phase
K-Factor	Single Phase: 12,000 pulses/cc Two Phase: 24,000 pulses/cc, 4x decoded (6,000 pulses/cc/phase, 1x decoded)
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 db IIB Tx Gb as well as UL, cUL certification for Class 1, Division 1, Groups C and D, Tx

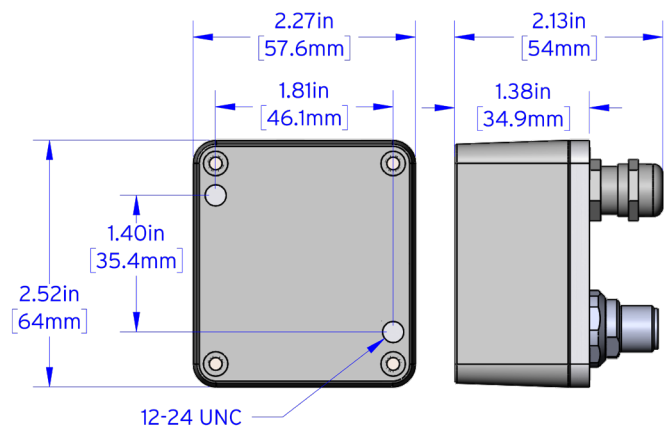
Model P001 Piston Flow Meter (Frequency)

DIMENSIONS (Not to scale)



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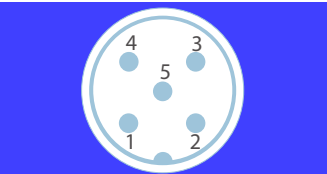
DIMENSIONS (Not to scale)



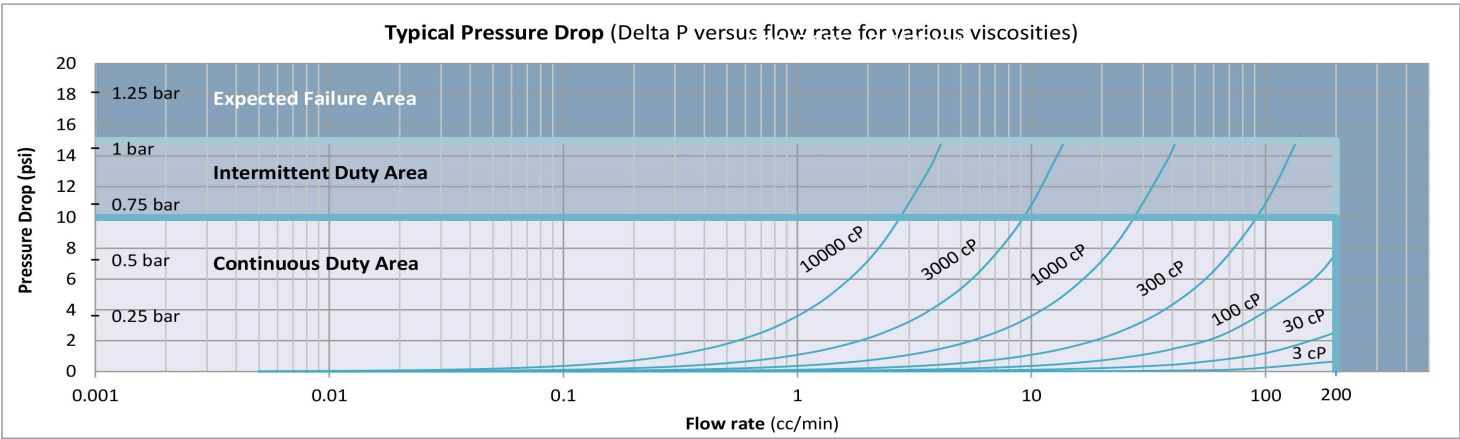
REMOTE PCA ENCLOSURE FOR HIGH TEMPERATURE TRANSMITTERS
(Not Shown: Industrial 2 meter interconnect cable included, Ex-Proof user supplied interconnect cable required)

CONNECTIVITY

ELECTRICAL CONNECTION –FREQUENCY TRANSMITTERS

	Turck® Connector		
	PCA Label	Pin #	Mating Cable Wire Color
Power (+5 to 26 Vdc)	V+	1	Brown
Common	Com	4	Black
Pulse Output	Ph A	2	White
Output Phase B (Quad only)	Ph B	5	Grey
Case Ground	Case	3	Blue

PRESSURE DROP GRAPH





Max Machinery, Inc.
an ISO 9001:2015 certified company

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

Flow Meter Selections				Transmitter Selections			
Model #	<input type="text"/>	HS	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
				1 - <input type="text"/> Non-Standard Options			
				Bi-Directional Cal: BID			
				1 Transmitter Type			
Max Flow Range				Output Type			
0.2 Liters/Min	P001	3		A	A	4-20mA Output - Powered by 24 Vdc	
2 Liters/Min	P002	2		A	B	4-20mA Output - Powered by 12 Vdc	
				A	C	0-10 Volt Output - Powered by 24 Vdc	
				A	D	0-10 Volt Output - Powered by 12 Vdc	
				P	N	5V Pulse/Freq. - Powered by 5-26 Vdc	
				Q	N	5V Quadrature - Powered by 5-26 Vdc	
				P	S	Current Sinking, Single Phase	
Pressure				Temperature Rating			
7250 psi (500 bar)	HS			1	90°C Industrial, 75°C Haz-Loc		
				2	155°C Ind./ 130°C Haz-Loc, 2 Part**		
				3	225°C -Industrial, 2 Part [†]		
Fluid Connection				Electrical Connection			
	SAE	2		1	Industrial, Turck® Connector		
	1/4" and 6mm Tube	3		2	Hazardous Location, 1/2 Inch Conduit*		
Seal Selection				Signal Type			
	Viton® - FKM	1		P	Pulse		
	Perfluoroelastomer - FFKM	5		A	Analog		
Options				Q	Quadrature		
	None	NA					



* See temp chart in product manual.
** Receiver portion of 2 part transmitters are not rated Ex-Proof, consult factory.
*** Teflon not used above 90°C for this high pressure rated product.
† Not available for hazardous location use. (Exceeds 130°C temp. Limit.)
Product includes single directional calibration, bi-directional calibrations for Analog and Quadrature devices are optional.