

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)



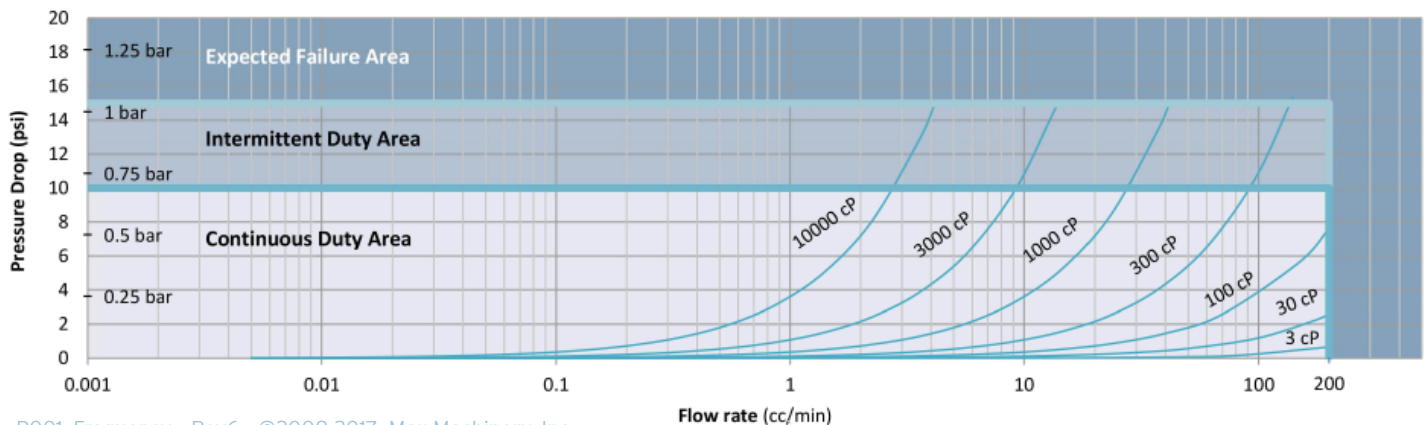
MATERIALS OF CONSTRUCTION

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

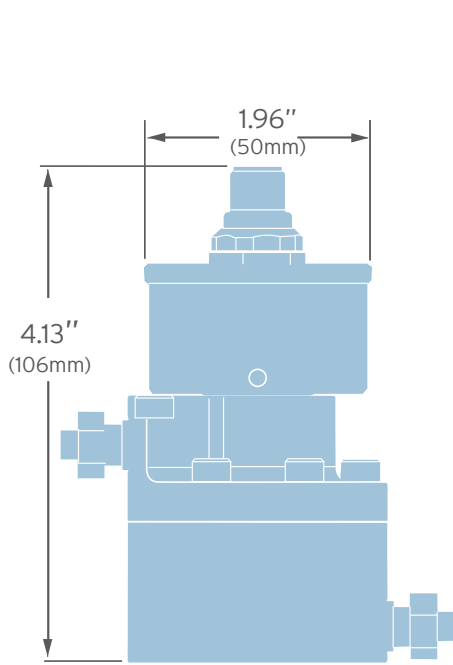
FREQUENCY TRANSMITTER

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 db IIB Tx Gb as well as UL, cUL certification for Class 1, Division 1, Groups C and D, Tx

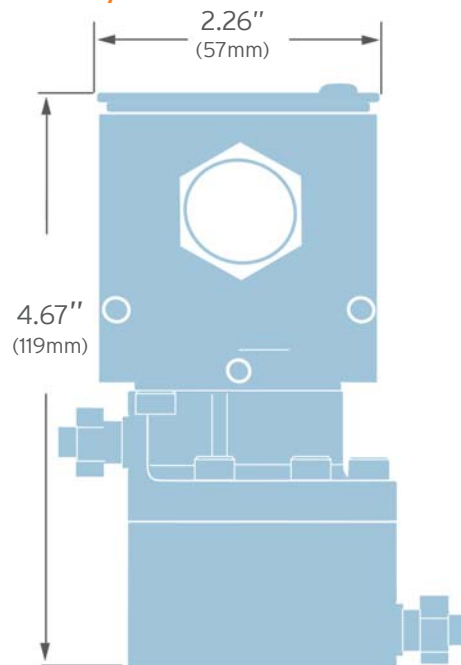
Typical Pressure Drop (Delta P versus flow rate for various viscosities)



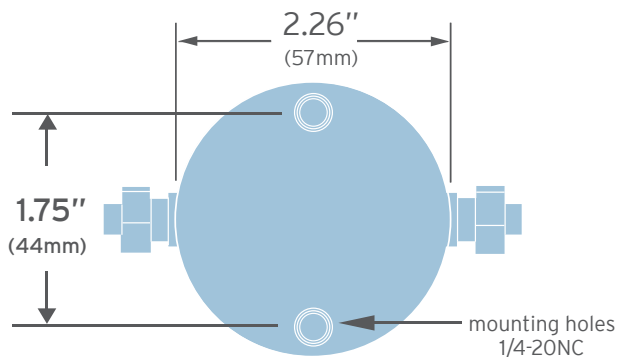
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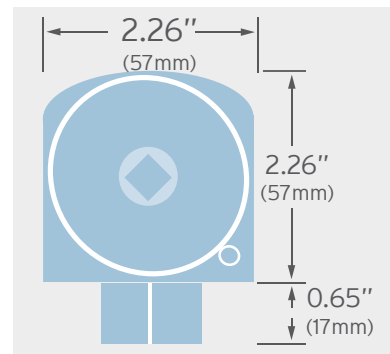
Model P001 meter with industrial transmitter



Model P001 meter with Explosion Proof transmitter



Bottom View



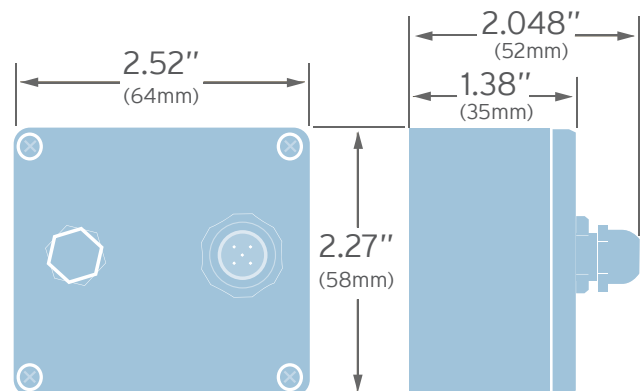
not to scale

Top View of Explosion Proof

Enclosure

ELECTRICAL CONNECTION - FREQUENCY TRANSMITTERS

	PCA Label	Turck® Connector	
		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



REMOTE PCA ENCLOSURE FOR HIGH TEMPERATURE TRANSMITTERS
(2 meter interconnect cable, not shown)

