

Model P002 Piston Flow Meter (Frequency) 0.5 cc/min to 2000 cc/min

SPECIFICATIONS

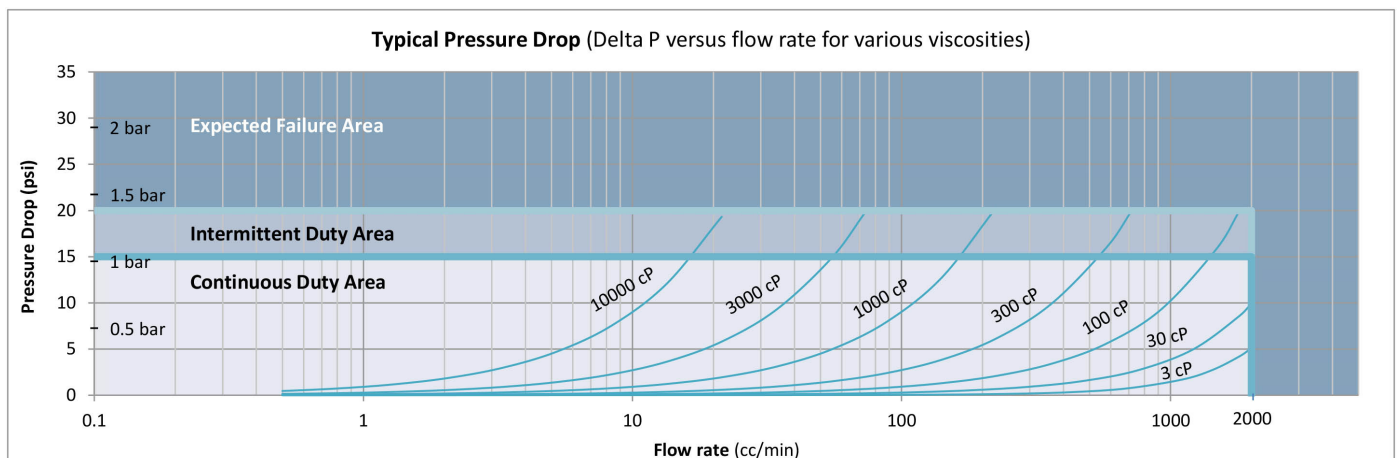
Flow Range	0.5 cc/min to 2000 cc/min
Accuracy (at 3 cP)	± 0.2% of reading over a 200:1 range
Maximum Operating Pressure	500 bar (7250 psi)
Displacement	1 cc/rev
Weight	1.9 kg
Recommended Filtration	10 micron
Port Size(s)	#4 SAE
Fluids	Most non-aqueous, hydrocarbon based fluids

MATERIALS OF CONSTRUCTION

Body	Stainless steel, type 303
Pistons	Stainless steel, type 17-4
Bearings	All ball bearings, 440C stainless steel
Seals	Viton®- standard, Perfluoroelastomer - optional

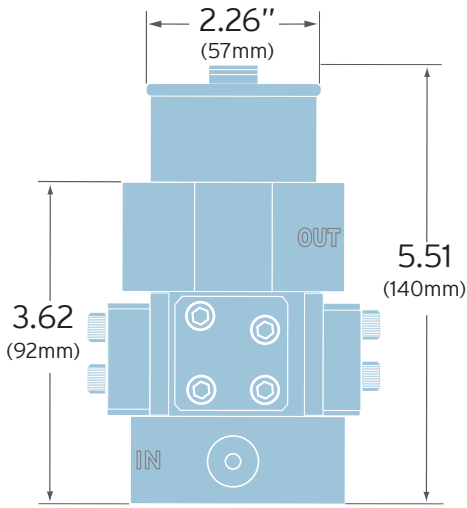
FREQUENCY TRANSMITTER

Output Signal	5 Vdc square wave – Current Sinking, 20mA max.- optional
Output Resolution	Selectable: 1 - 1000 pulses/rev
Optional	Quadrature square wave, 1 - 500 pulses/revolution/channel
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

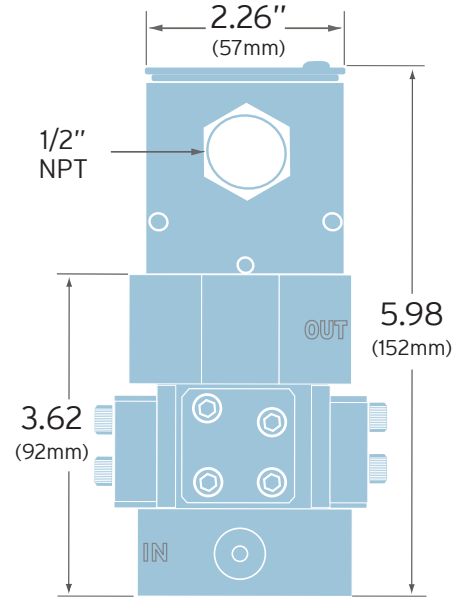


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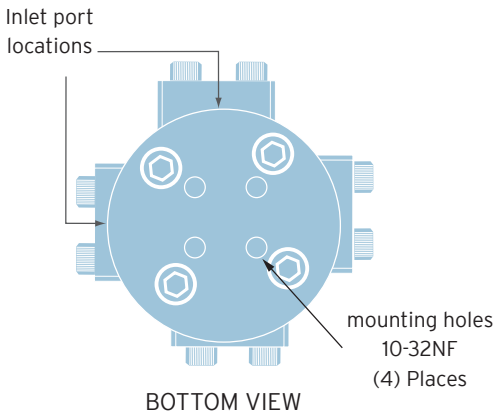
CONNECTIVITY/DIMENSIONS (Not to scale)



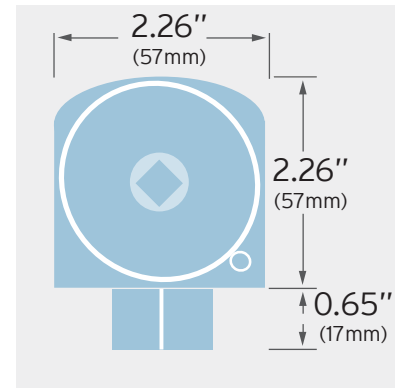
MODEL P002 WITH INDUSTRIAL HOUSING TRANSMITTER



MODEL P002 WITH EX-PROOF HOUSING TRANSMITTER



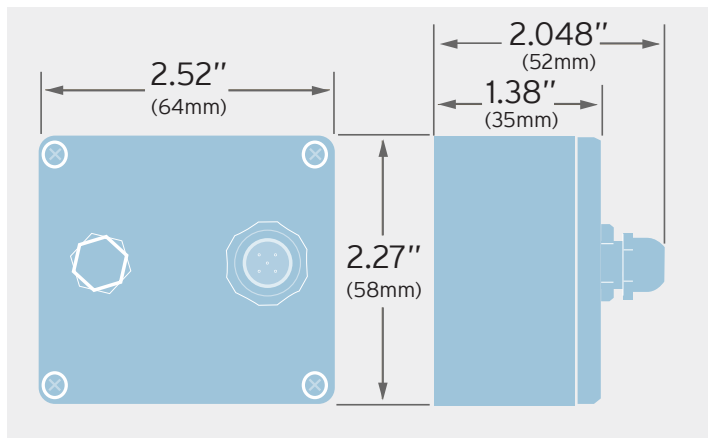
BOTTOM VIEW



EX-PROOF HOUSING TOP VIEW

ELECTRICAL CONNECTION – FREQUENCY TRANSMITTERS

	Turck® Connector		
	Pin #	Mating Cable Wire Color	NPT model
			
Case Ground	3	Blue	Case
Common	4	Black	Com
Power (+5-26 Vdc)	1	Brown	V+
Single Phase:			
Pulse Output	2	White	Ph A
N/A	5	Grey	NC
Quadrature:			
Output Phase A	2	White	Ph A
Output Phase B	5	Grey	Ph B



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

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

Flow Meter Selections

Transmitter Selections

Model #	P002	HS	2		NA	/					/	1	
Max flow range	2 Liters/min	P002	2									1	
Pressure	7250 psi (500 bar)	HS											
Fluid Connection	SAE	2											
Seal Selection	Viton® - FKM	1											
	Perfluoroelastomer - FFKM	5											
Options	None	NA											

Output Type	A	4-20mA output - powered by 24Vdc
	B	4-20mA output - powered by 12Vdc
	C	0-10Volt output - powered by 24Vdc
	D	0-10Volt output - powered by 12Vdc
	N	5V Pulse/Quad - powered by 5-26Vdc
	N	5V Quadrature - powered by 5-26Vdc
	S	Current Sinking, single phase

Temperature rating	1	90°C
	2	155°C - 2 part tach*
	3	225° C - 2 part tach*

Electrical Connection	1	Turck® connector
	2	Hazardous location*

SIGNAL TYPE	P	Pulse
	A	Analog
	Q	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.