

Model P213 Piston Flow Meter (Analog) 0.5 cc/min to 1800 cc/min

SPECIFICATIONS

Flow Range	0.5 cc/min to 1800 cc/min
Accuracy (at 3 cP)	\pm 0.2% of reading over a 200:1 range, or \pm 2mV (or 4µA), whichever is greater
Maximum Operating Pressure	3000 psi (210 bar)
Weight	1.0 kg
Recommended Filtration	10 micron
Port Sizes	1/8" NPT, #4 SAE or manifold mount
Fluids	Most non-aqueous, hydrocarbon based fluids



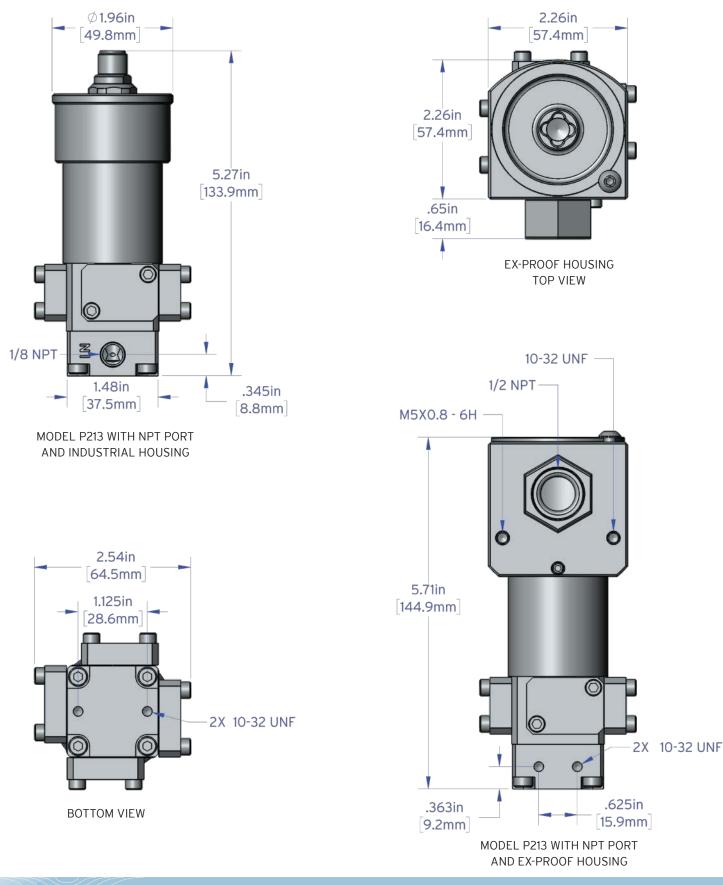
MATERIALS OF CONSTRUCTION

External	Stainless steel, type 303
Wetted	Stainless steel, type 303, type 440C; Cobalt based carbide
O-Rings	Standard: Viton® Optional: Teflon®, Perfluoroelastomer, Neoprene

ANALOG TRANSMITTER

Output Signal	Any range of \pm 10V or \pm 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 225°C, Two piece 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

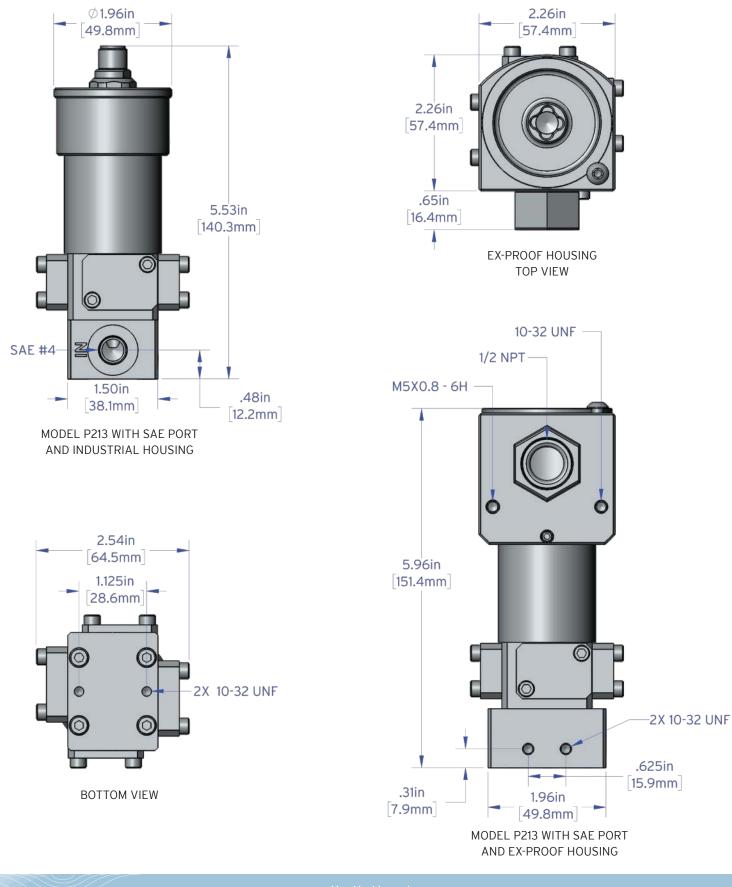
DIMENSIONS (Not to scale)



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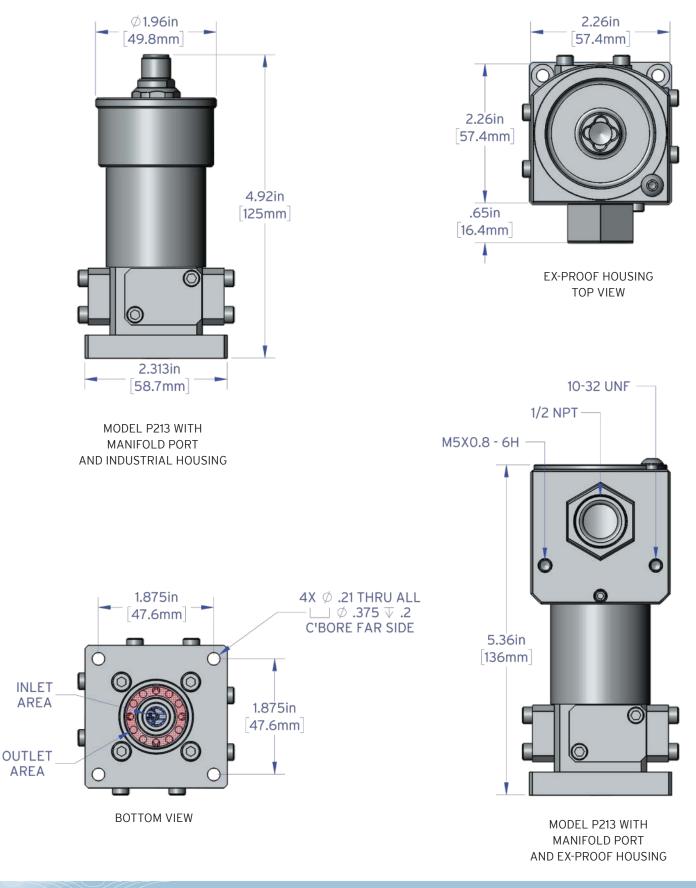
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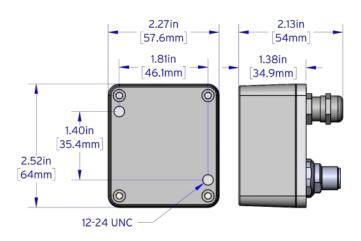
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REMOTE PCA ENCLOSURE FOR HIGH TEMPERATURE TRANSMITTERS (Not Shown: Industrial 2 meter interconnect cable included, Ex-Proof **user supplied interconnect cable required**)

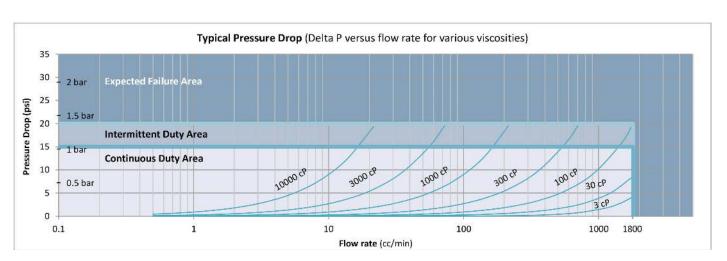
CONNECTIVITY

ELECTRICAL CONNECTION - ANALOG TRANSMITTERS

4 3 5		Turck® Connector	
1 2	PCA Label	Pin #	Mating Cable Wire Color
Power *	V+	1	Brown
Common	Com	4	Black
Signal Output (+)	Sig	5	Grey
Signal Output (–)	Ret	2	White
Case Ground	Case	3	Blue

* Please specify 12Vdc or 24Vdc operation

PRESSURE DROP GRAPH



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Positive Displacement Flow Meters Piston Type, P-Series 3000 psi (210 bar) rated Flow Meter Selections **Transmitter Selections** Model # MS 0 Non-Standard Options **Bi-Directional Cal: BID** 0 Transmitter Type Max Flow Range Output Type 4-20mA Output - Powered by 24 Vdc 1.8 Liters/Min P213 А А 10 Liters/Min P214 4-20mA Output - Powered by 12 Vdc А В 35 Liters/Min P215 С 0-10 Volt Output - Powered by 24 Vdc А D 0-10 Volt Output - Powered by 12 Vdc А Ρ 5V Pulse/Freq. - Powered by 5-26 Vdc Ν 5V Quadrature - Powered by 5-26 Vdc Q Ν Ρ S Current Sinking, Single Phase **Temperature Rating** Pressure 3000 psi (210 bar) MS 1 90°C Industrial / 75°C Haz-Loc 2 130°C Haz-Loc, 2 Part ** Fluid Connection 3 225°C Industrial, 2 Part + NPT 1 **Electrical Connection** SAE 2 Industrial, Turck® Connector 1 Manifold 4 2 Hazardous Location, 1/2 Inch Conduit* (Not available on model P215) Seal Selection Viton® - FKM Signal Type 1 Teflon® - PTFE 3 P Pulse Perfluoroelastomer - FFKM 5 A Analog Neoprene 7 Q Quadrature Options None NA Heat Trace Option HT

* See temp chart in product 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.) Product includes single directional calibration, bi-directional calibrations for Analog and Quadrature devices are optional.



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