

Model P213 Piston Flow Meter (Frequency)

0.5 cc/min to 1800 cc/min

SPECIFICATIONS

Flow Range 0.5 cc/min to 1800 cc/min

Accuracy (at 3 cP) ± 0.2% of reading over a 200:1 range

Maximum Operating Pressure 210 bar (3000 psi)

Displacement 0.89 cc/rev

Weight 1.1 kg Recommended Filtration 10 micron

Port Size(s) 1/8" NPT, #4 SAE or manifold mount

Fluids Most non-aqueous, hydrocarbon based fluids

MATERIALS OF CONSTRUCTION

Body Stainless steel, type 303

Pistons Nitride hardened stainless steel, type 303

Crankshaft Stainless steel

Bearings All ball bearings, 440C stainless steel

O Rings Viton®- standard • Teflon®, 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

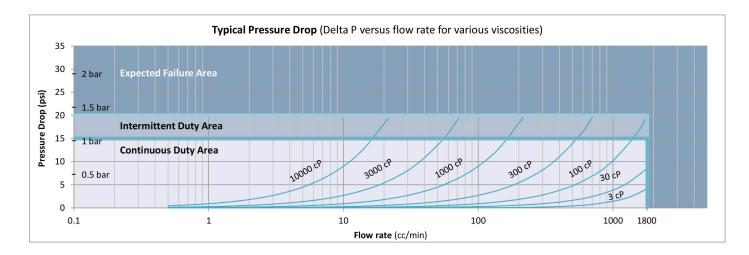
Ambient Operational Range -40°C to 80°C, Single piece – Two piece to 110°C

Metered Liquid Temp Range -40°C to 90°C, Standard model

(based on 20° ambient) -40°C to 225°C, Two piece high temperature model

CE Certified, Ex-proof version available with ATEX/IECEx II 2 G Ex d IIB Tx Gb as well Compliance

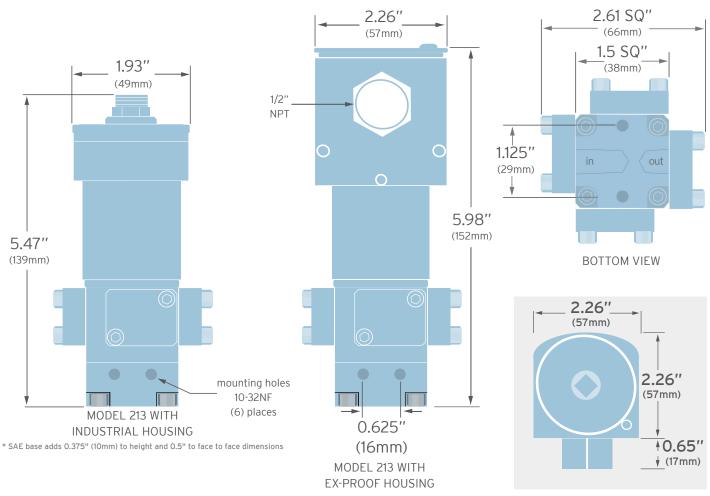
as UL, cUL certification for Class 1, Division 1, Groups C and D, Tx





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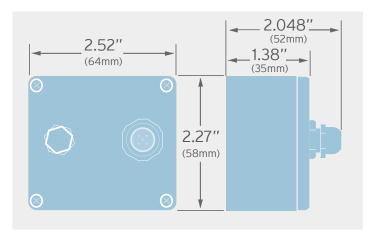
CONNECTIVITY/DIMENSIONS (Not to scale)



ELECTRICAL CONNECTION - FREQUENCY TRANSMITTERS

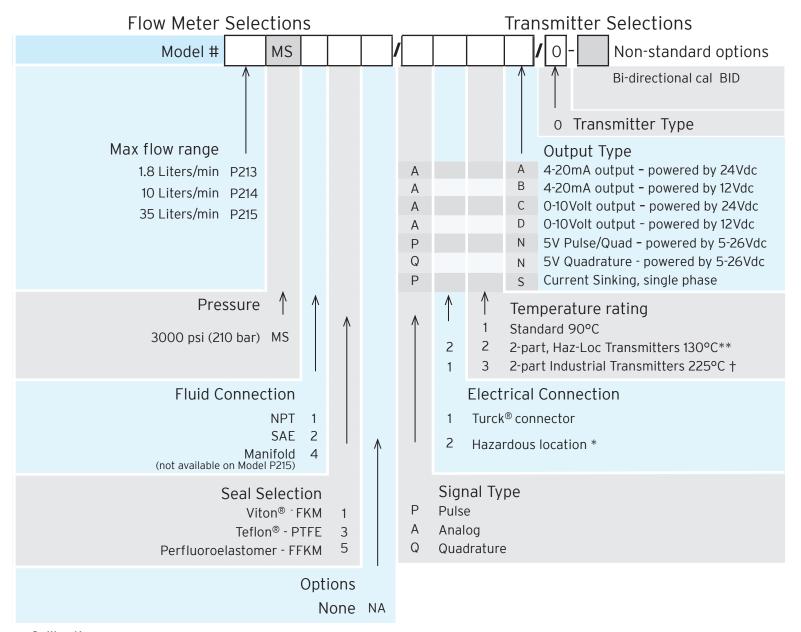
4 3 5 1 2	Turck® Connector		
	Pin #	Mating Cable Wire Color	NPT model
Case Ground	3	Blue	Case
Common	4	Black	Com
Power (+5-26 Vdc)	1	Brown	V+
Single Phase:			
Pulse Output	2	White	Ph A
N/A	5	Grey	NC
Quadrature:			
Output Phase A	2	White	Ph A
Output Phase B	5	Grey	Ph B

EX-PROOF HOUSING TOP VIEW



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

Positive Displacement Flow Meters Piston Type, 3000 psi (210 bar) rated



Calibration

Price includes unidirectional calibration

^{*} 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.)