

Model P215 Piston Flow Meter (Frequency) 25 cc/min to 35 liters/min

SPECIFICATIONS

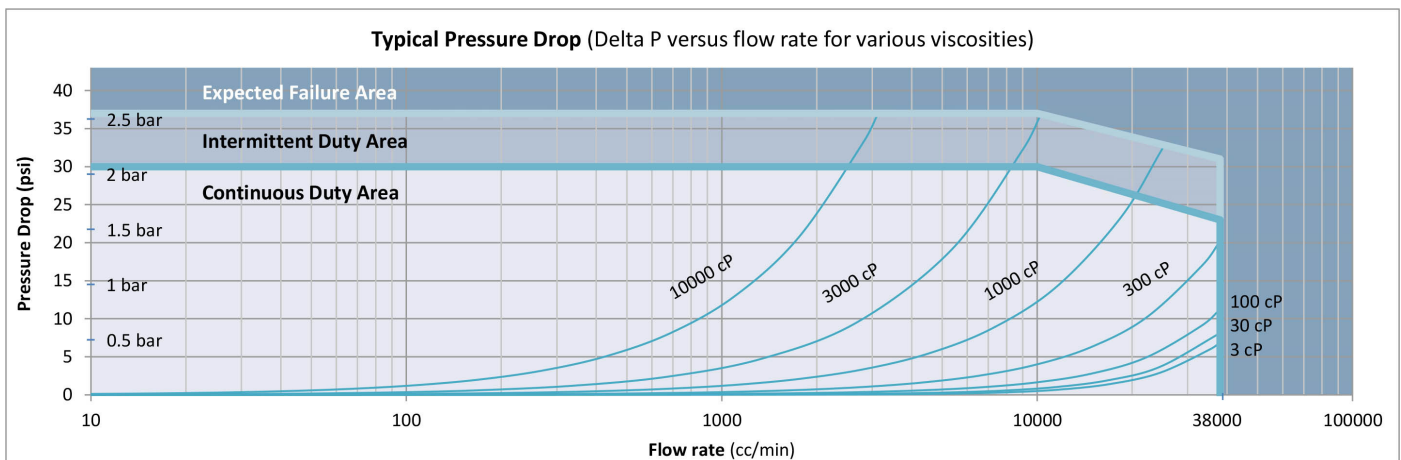
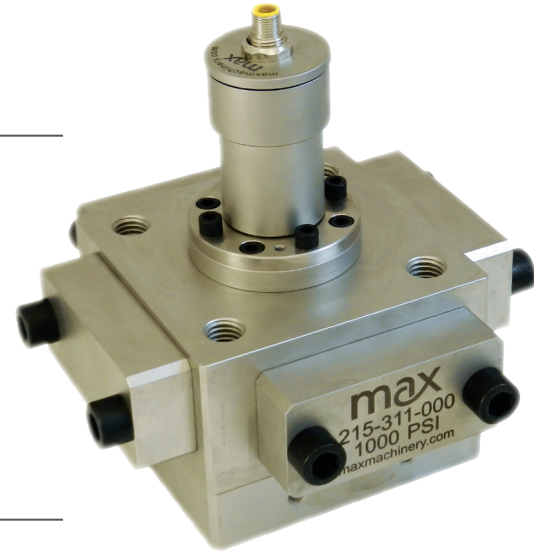
Flow Range	25 cc/min to 35 liters/min
Accuracy (at 3 cP)	± 0.2% of reading over a 200:1 range
Maximum Operating Pressure	210 bar (3000 psi)
Displacement	47.6 cc/rev
Weight	10.4 kg
Recommended Filtration	10 micron
Port Size(s)	1/2" NPT or #8 SAE
Fluids	Most non-aqueous, organic liquids

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® or Perfluoroelastomer - optional

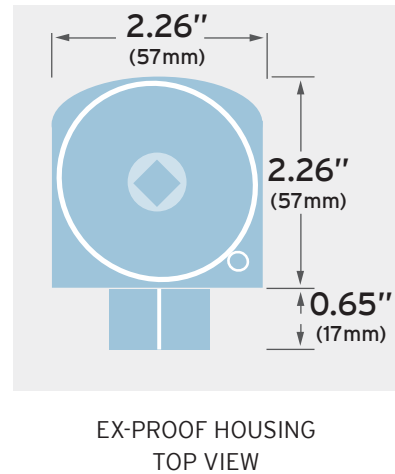
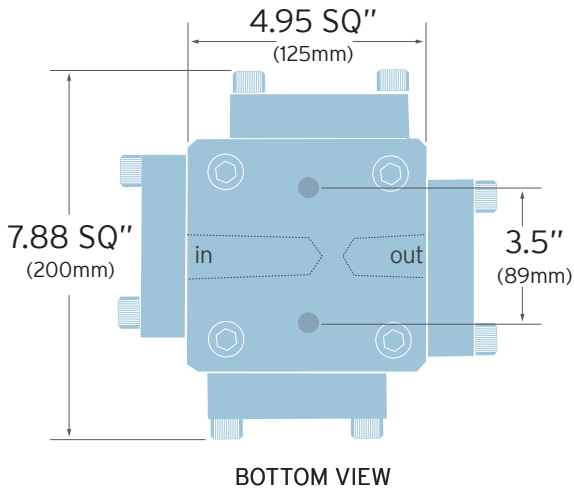
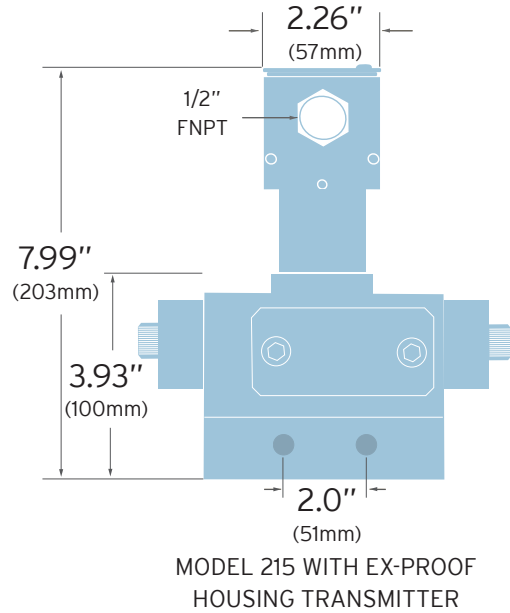
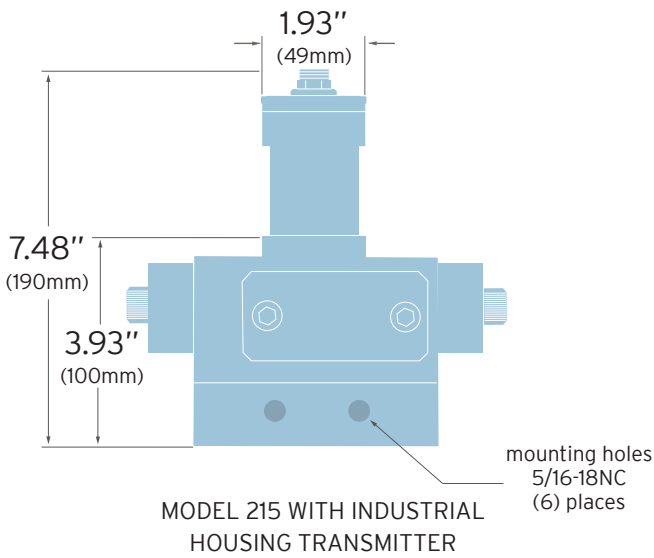
FREQUENCY TRANSMITTER

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 225°C, Two piece 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



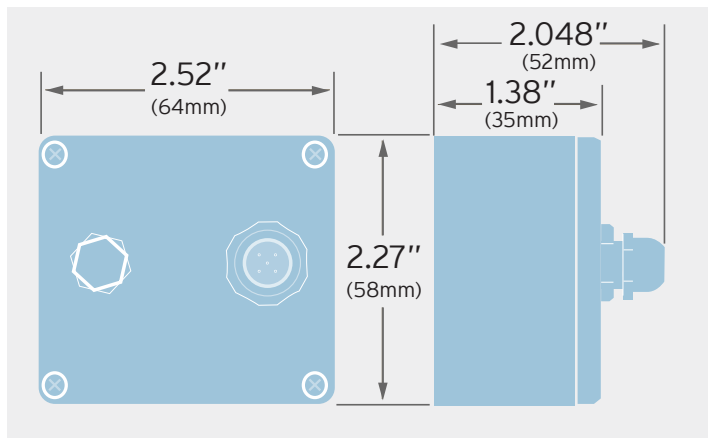
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CONNECTIVITY/DIMENSIONS (Not to scale)



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, 3000 psi (210 bar) rated

Flow Meter Selections

Model # MS /

Max flow range

1.8 Liters/min P213
 10 Liters/min P214
 35 Liters/min P215

Pressure

3000 psi (210 bar) MS

Fluid Connection

NPT 1
 SAE 2
 Manifold 4
 (not available on Model P215)

Seal Selection

Viton® - FKM 1
 Teflon® - PTFE 3
 Perfluoroelastomer - FFKM 5

Options

None NA

Transmitter Selections

/ 0 - Non-standard options

Bi-directional cal BID

0 Transmitter Type

Output Type

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

Temperature rating

1	1	Standard 90°C
2	2	2-part, Haz-Loc Transmitters 130°C**
1	3	2-part Industrial Transmitters 225°C †

Electrical Connection

1	Turck® connector
2	Hazardous location *

Signal Type

P	Pulse
A	Analog
Q	Quadrature

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.)