

## Model P215 Piston Flow Meter (Analog) 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, or ± 2mV (or 4µA), whichever is greater
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

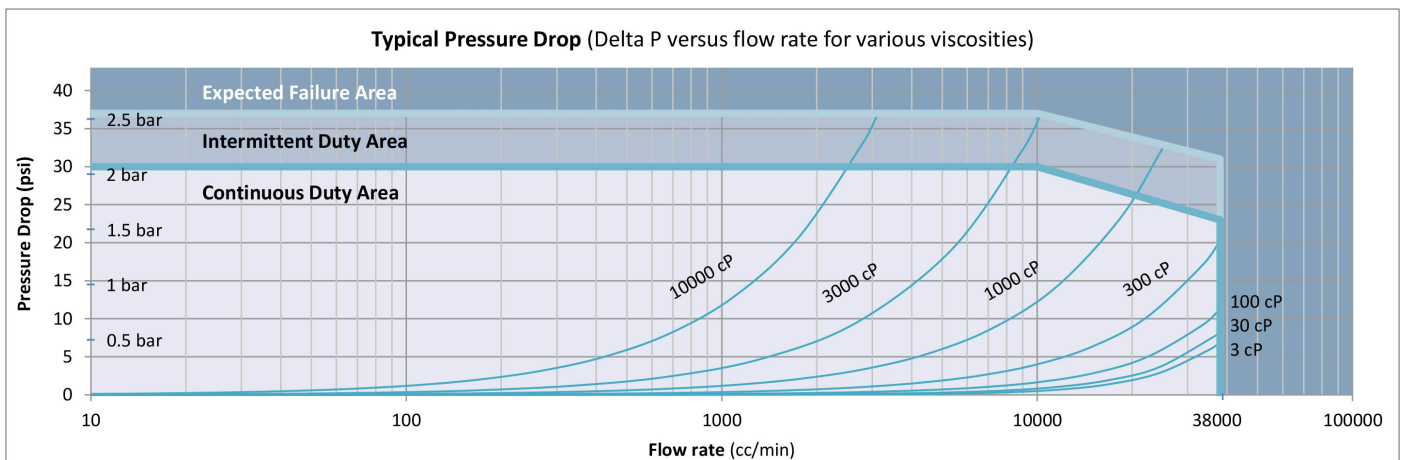


### MATERIALS OF CONSTRUCTION

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®, Perfluoroelastomer - optional

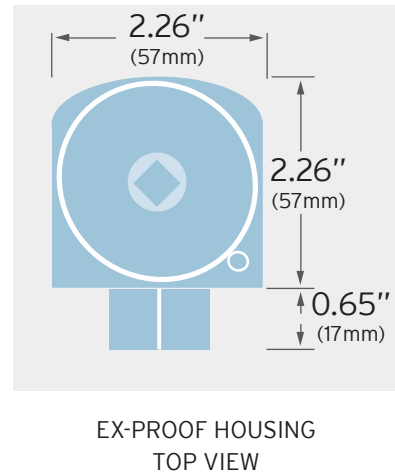
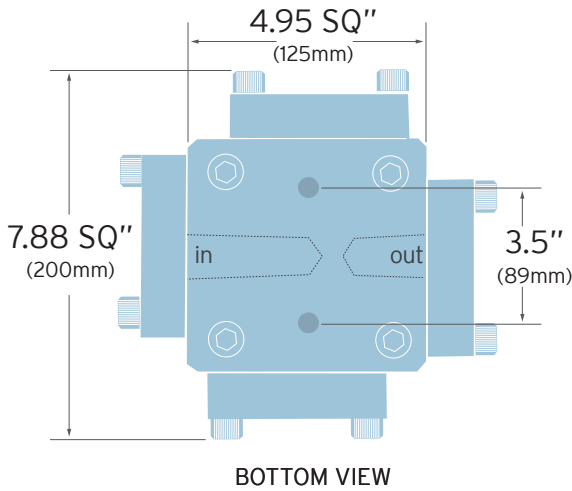
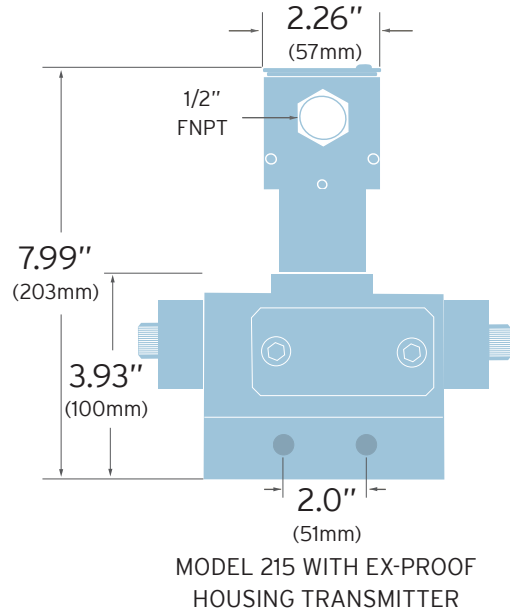
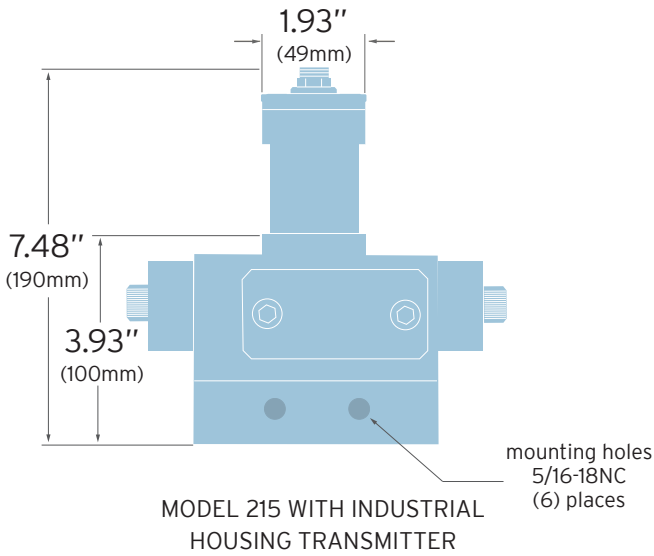
### ANALOG TRANSMITTER

Output Signal	Any range of ± 10V or ± 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 d IIB Tx Gb as well as UL, cUL certification for Class 1, Division 1, Groups C and D, Tx



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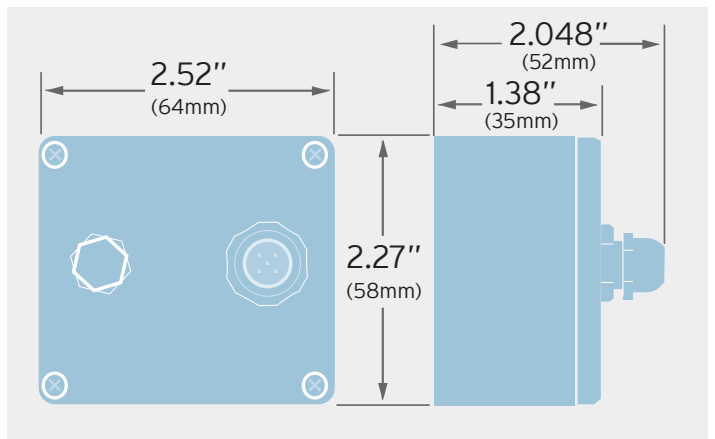
## CONNECTIVITY/DIMENSIONS (Not to scale)



### ELECTRICAL CONNECTION – ANALOG TRANSMITTERS

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

\* Please specify 12Vdc or 24Vdc operation



# 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 Standard 90°C
- 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.)