

## Model P214 Piston Flow Meter (Frequency) 5 cc/min to 10,000 cc/min

### SPECIFICATIONS

Flow Range	5 cc/min to 10,000 cc/min
Accuracy (at 3 cP)	± 0.2% of reading over a 200:1 range
Maximum Operating Pressure	3000 psi (210 bar)
Weight	3.8 kg
Recommended Filtration	10 micron
Port Sizes	3/8" NPT, #6 SAE or manifold mount
Fluids	Most non-aqueous, hydrocarbon based fluids



### MATERIALS OF CONSTRUCTION

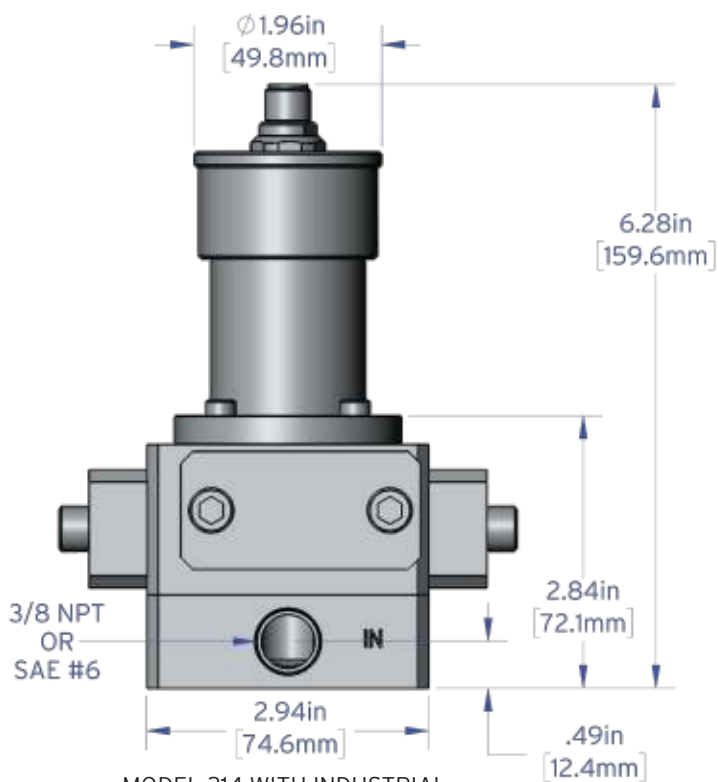
External	Stainless steel, type 303; Xylan coated bolts
Wetted	Stainless steel, type 303, Nitrided type 303, 440C; Alnico magnet
O-Rings	Standard: Viton® Optional: Teflon®, Perfluoroelastomer, Neoprene

### FREQUENCY TRANSMITTER

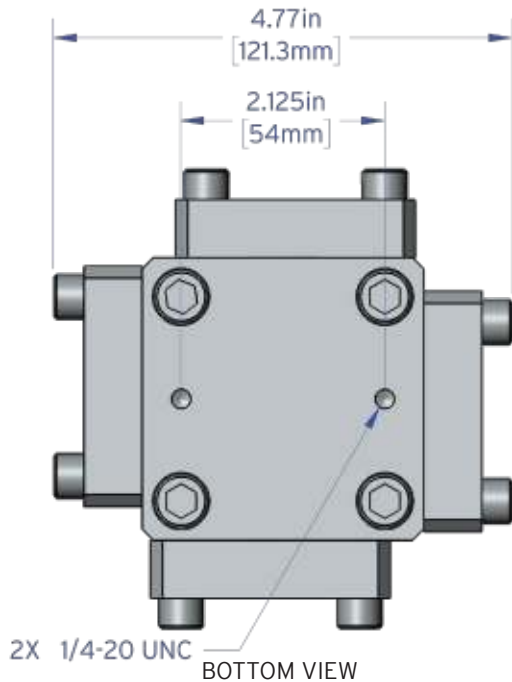
Output Signal	Standard: 5 Vdc, single phase Optional: Quadrature 5 Vdc, two phase Current sinking, 20 mA max., single phase
K-Factor	Single Phase: 90 pulses/cc Two Phase: 180 pulses/cc, 4x decoded (45 pulses/cc/phase, 1x decoded)
Power Supply Requirements	5-26 Vdc @ 30ma
Ambient Operational Range	-40°C 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 db IIB Tx Gb as well as UL, cUL certification for Class 1, Division 1, Groups C and D, Tx

# Model P214 Piston Flow Meter (Analog)

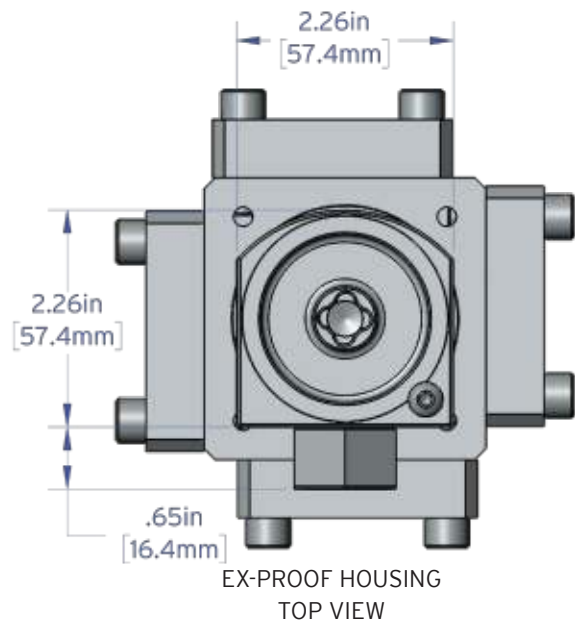
DIMENSIONS (Not to scale)



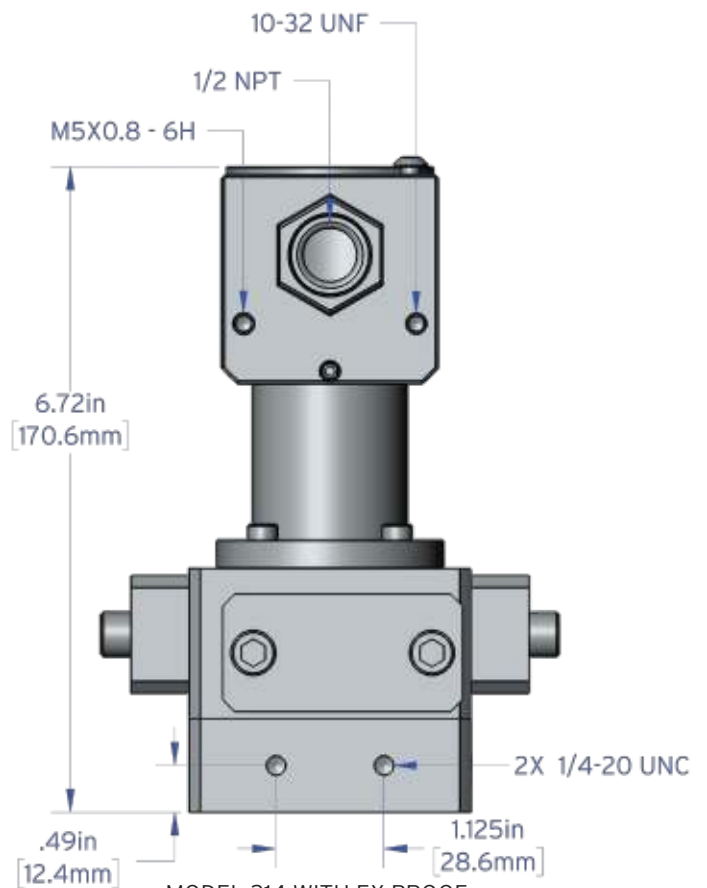
MODEL 214 WITH INDUSTRIAL HOUSING TRANSMITTER



BOTTOM VIEW



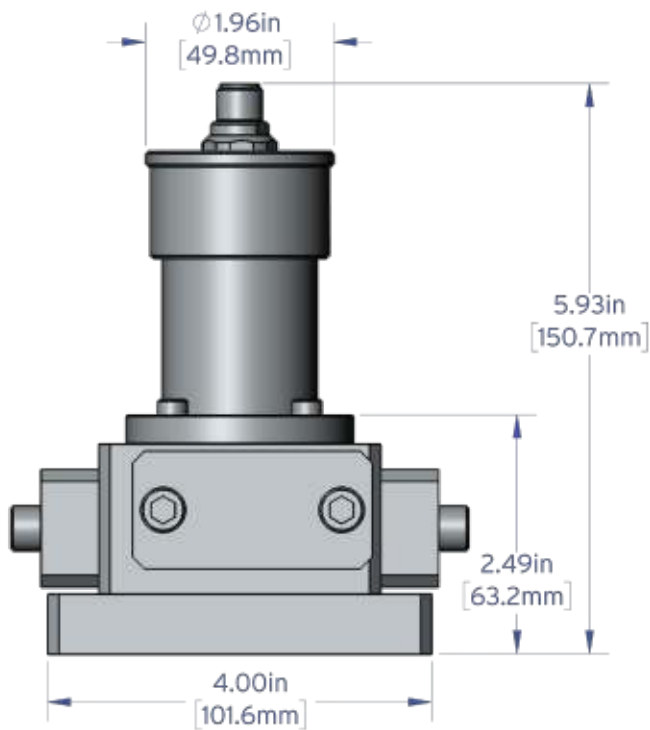
EX-PROOF HOUSING TOP VIEW



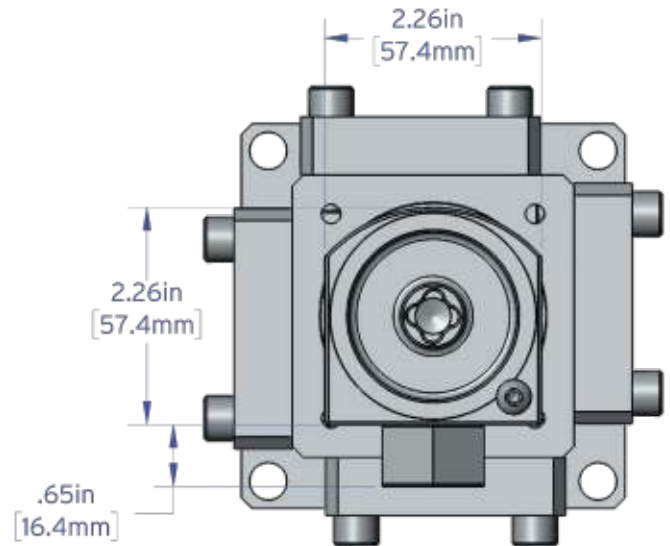
MODEL 214 WITH EX-PROOF HOUSING TRANSMITTER

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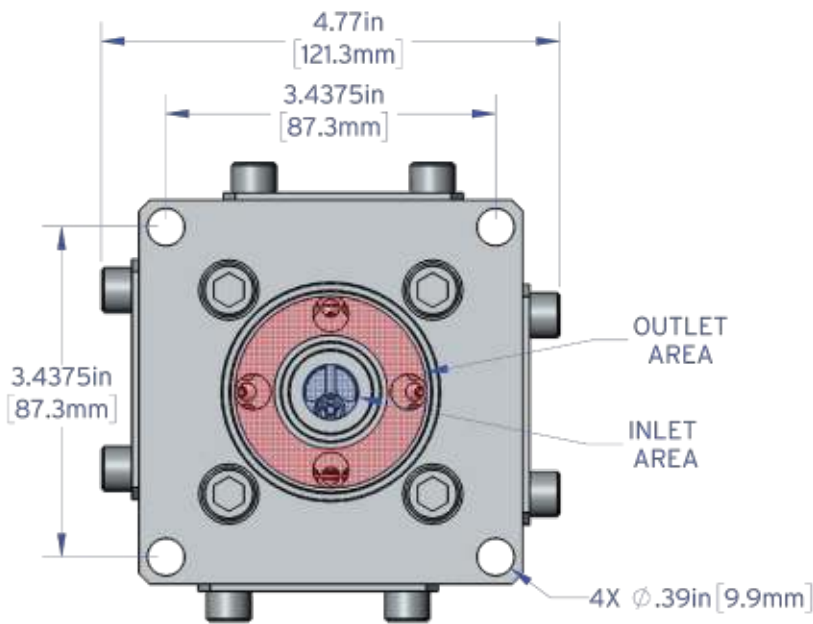
DIMENSIONS (Not to scale)



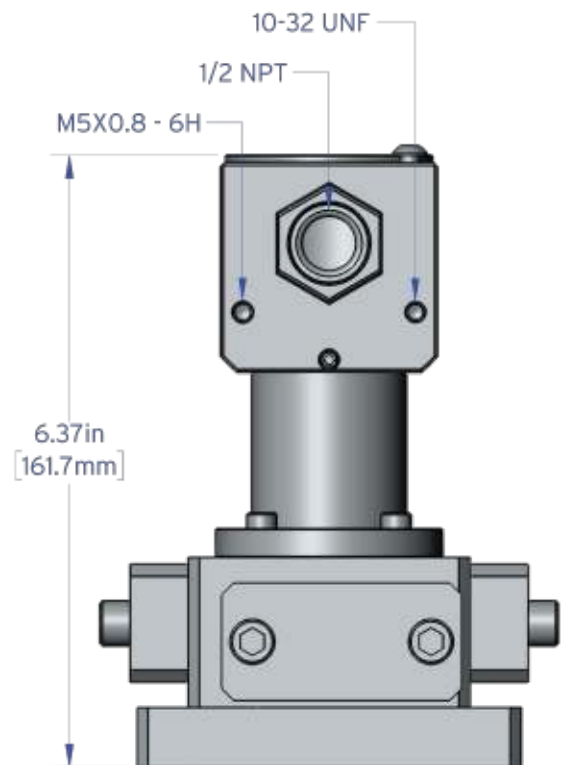
MODEL 214 WITH INDUSTRIAL HOUSING TRANSMITTER



EX-PROOF HOUSING  
TOP VIEW



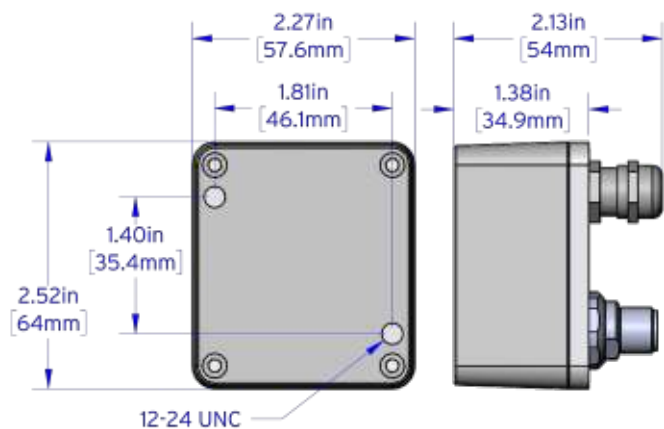
BOTTOM VIEW



MODEL 214 WITH EX-PROOF HOUSING TRANSMITTER

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DIMENSIONS (Not to scale)



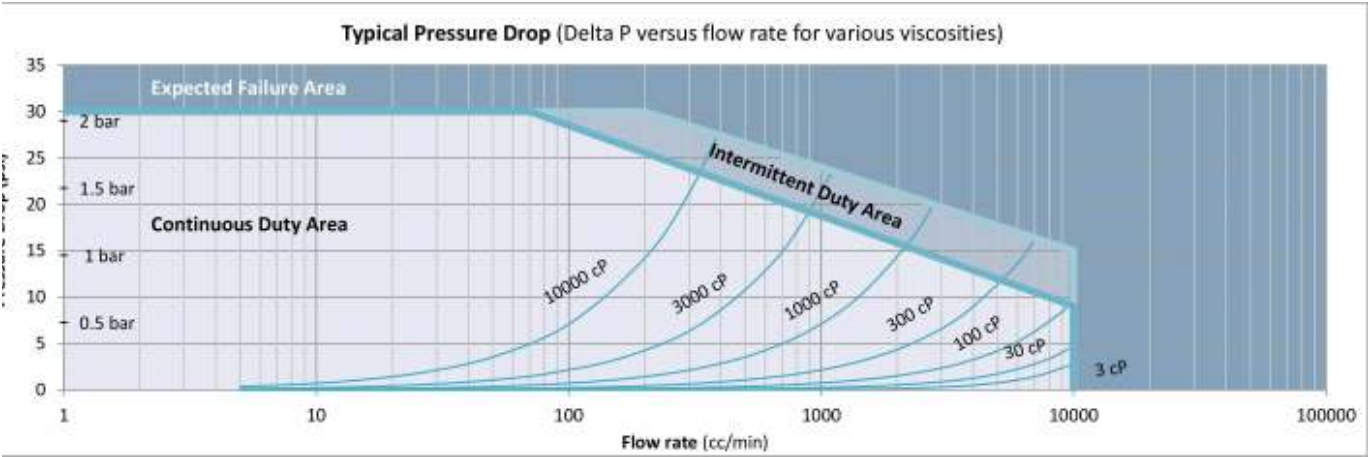
REMOTE PCA ENCLOSURE FOR HIGH TEMPERATURE TRANSMITTERS  
(Not Shown: Industrial 2 meter interconnect cable included, Ex-Proof user supplied interconnect cable required)

## CONNECTIVITY

ELECTRICAL CONNECTION – FREQUENCY TRANSMITTERS

	Turck® Connector		
	PCA Label	Pin #	Mating Cable Wire Color
Power (+5 to 26 Vdc)	V+	1	Brown
Common	Com	4	Black
Pulse Output	Ph A	2	White
Output Phase B (Quad only)	Ph B	5	Grey
Case Ground	Case	3	Blue

## PRESSURE DROP GRAPH





Max Machinery, Inc.  
an ISO 9001:2015 certified company

## Positive Displacement Flow Meters Piston Type, P-Series 3000 psi (210 bar) rated

### Flow Meter Selections

Model #   MS    /

### Transmitter Selections

/  0 -  Non-Standard Options

Bi-Directional Cal: BID

0 Transmitter Type

#### 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
Neoprene	7

#### Options

None	NA
Heat Trace Option	HT

A  
A  
A  
A  
P  
Q  
P

#### Output Type

A	4-20mA Output - Powered by 24 Vdc
B	4-20mA Output - Powered by 12 Vdc
C	0-10 Volt Output - Powered by 24 Vdc
D	0-10 Volt Output - Powered by 12 Vdc
N	5V Pulse/Freq. - Powered by 5-26 Vdc
N	5V Quadrature - Powered by 5-26 Vdc
S	Current Sinking, Single Phase

#### Temperature Rating

- 90°C Industrial / 75°C Haz-Loc
- 130°C Haz-Loc, 2 Part \*\*
- 225°C Industrial, 2 Part †

#### Electrical Connection

- Industrial, Turck® Connector
- Hazardous Location, 1/2 Inch Conduit\*

#### Signal Type

P	Pulse
A	Analog
Q	Quadrature



\* 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.