

## Model H241 Helical Flow Meter (Frequency)

### 100 cc/min to 189 liters/min

#### SPECIFICATIONS

Flow Range	100 cc/min to 189 liters/min
Accuracy (at 30 cP)	± 0.2% of reading over a 50:1 range
Maximum Operating Pressure	500 psi (35 bar) - NPT Only 3500 psi (240 bar) - ANSI Flange Only
Weight	14 kg
Recommended Filtration	150 micron
Port Size(s)	1 1/2" NPT 1 1/2" (DN 40) ANSI RF Flanges - Customer Supplied
Fluids	Most non-aqueous, hydrocarbon based liquids
Options	Liquid heat trace bodies available

#### MATERIALS OF CONSTRUCTION

External	Stainless steel, type 303, Nitrided type 303; Zinc plated bolts
Wetted	Stainless steel, type 303, Nitrided type 303, 440C; Alnico magnet
O-rings	Standard: Viton® Optional: Teflon®, Perfluoroelastomer

#### FREQUENCY TRANSMITTER

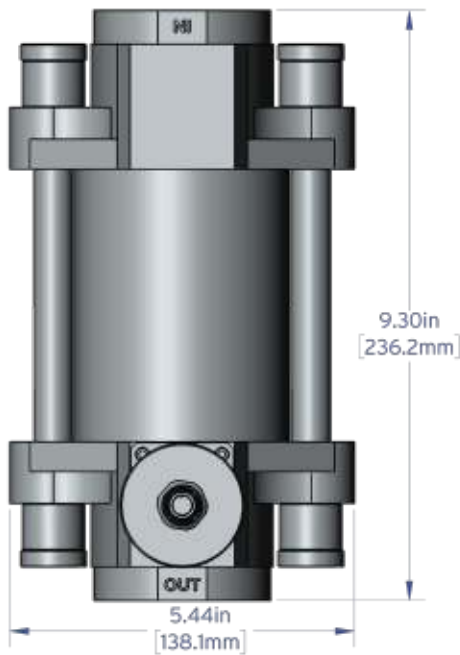
Output Signal	Standard: 5 Vdc, single phase Optional: Quadrature 5 Vdc, two phase Current sinking, 20 mA max., single phase
K-Factor	Single Phase: 15,000 pulses/liter Two Phase: 30,000 pulses/liter, 4x decoded (7,500 pulses/liter/phase, 1x decoded)
Power Supply Requirements	5-26 Vdc @ 30ma
Ambient Operational 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



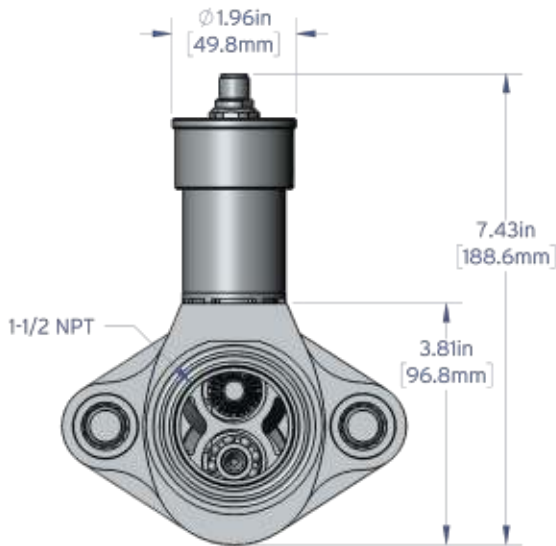
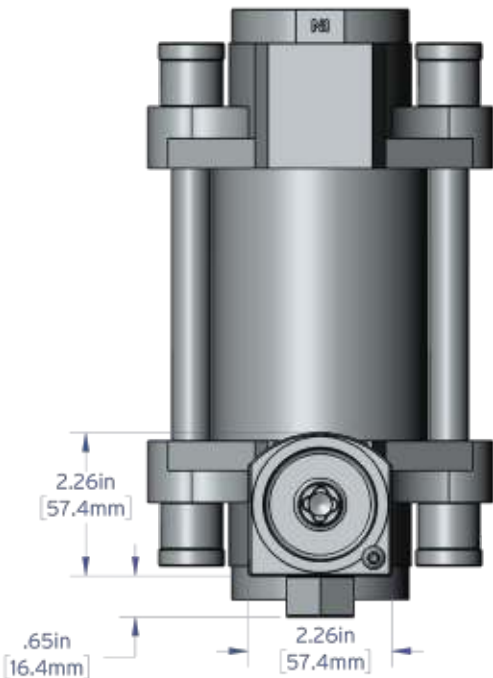
# Model H241LS Flow Meter

DIMENSIONS (Not to Scale)

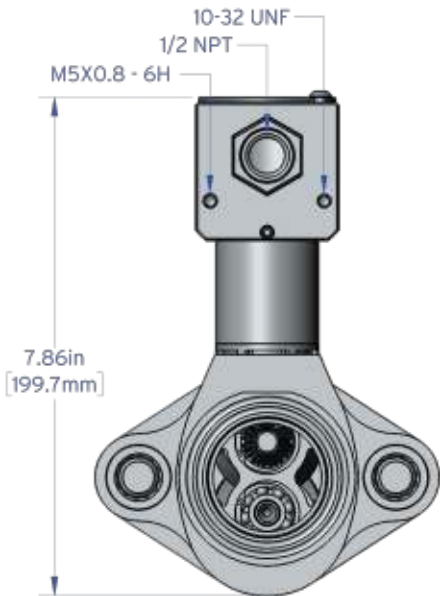
INDUSTRIAL HOUSING  
SIDE VIEW



EX-PROOF HOUSING  
SIDE VIEW



INDUSTRIAL HOUSING  
END VIEW

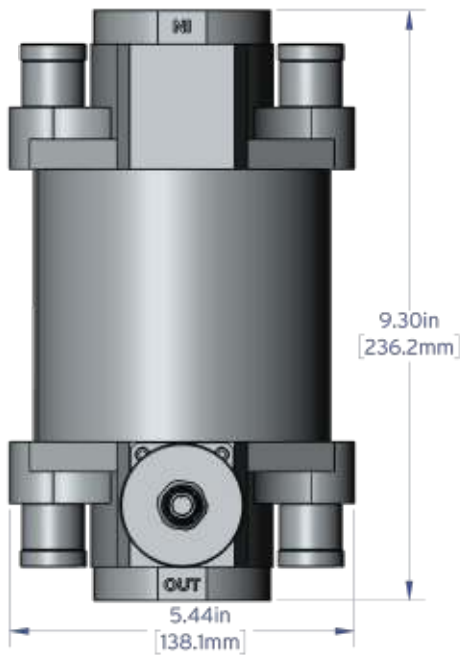


EX-PROOF HOUSING  
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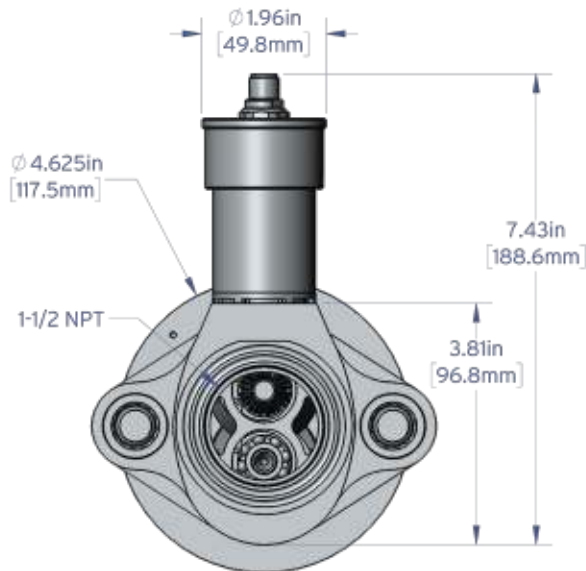
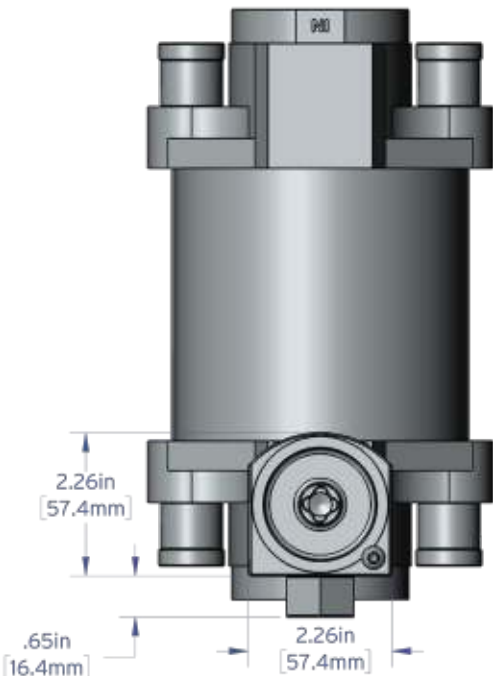
# Model H241MS Flow Meter

## DIMENSIONS (Not to Scale)

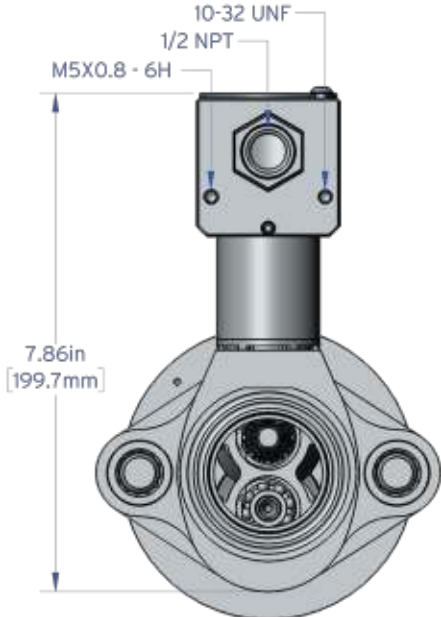
INDUSTRIAL HOUSING  
SIDE VIEW



EX-PROOF HOUSING  
SIDE VIEW



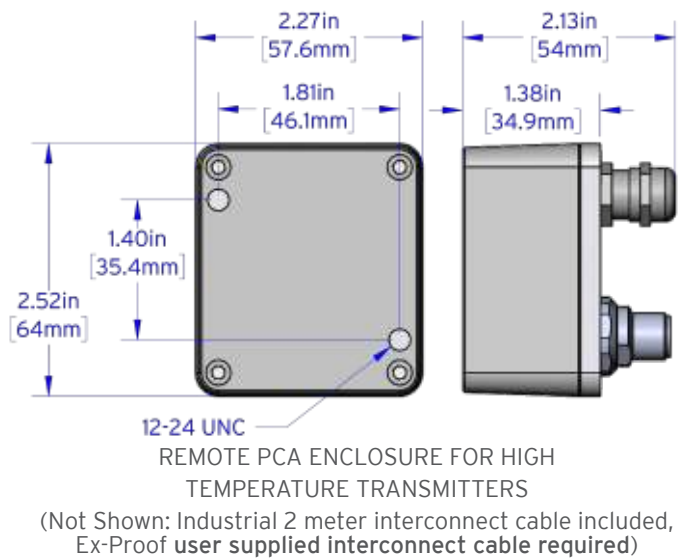
INDUSTRIAL HOUSING  
END VIEW



EX-PROOF HOUSING  
END VIEW


# Model H241 Flow Meter

DIMENSIONS (Not to scale)

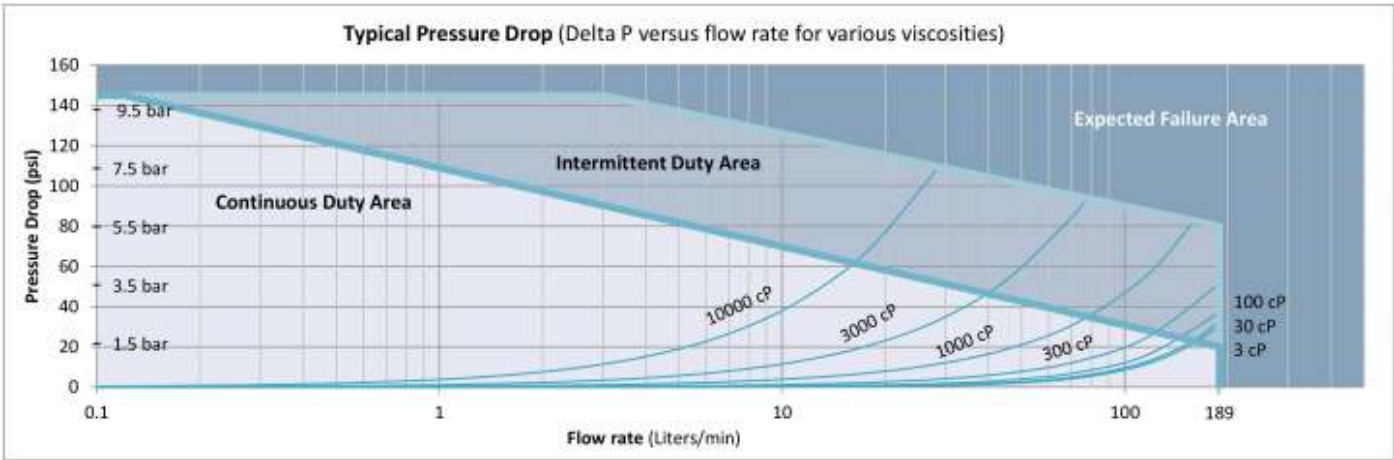


## CONNECTIVITY

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 Helical Rotor Type, H-Series

Flow Meter Selections      Transmitter Selections

Model #      /     /  0 -  Non-Standard Options

Bi-Directional Cal: BID

0 Transmitter Type

### Max Flow Range

189 Liters/Min	H241	LS	1
189 Liters/Min	H241	MS	5
500 Liters/Min	H242	LS	1
500 Liters/Min	H242	MS	5

### Pressure

500 psi (35 bar) LS

3500 psi (245 bar) MS

Includes Flange Bolt Kit (see below)

### Fluid Connection

NPT 1

Wafer-Mounted Between Customer's Flanges 5

### Seal Selection

Viton® - FKM 1

Teflon® - PTFE 3

Perfluoroelastomer - FFKM 5

### Options

None NA

Heat Trace Option HT

### Output Type

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

### Temperature Rating

- 1 90°C Industrial / 75°C Haz-Loc
- 2 130°C Haz-Loc Only, 2 Part \*\*
- 3 225°C Industrial, 2 Part †

### Electrical Connection

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

### Signal Type

- P Pulse
- A Analog
- Q Quadrature

### Flange Bolt Kit Details

Model H241 Bolts	3500 psi Bolt Kit for 2500 lb. ANSI Flanges
Model H242 Bolts	3500 psi Bolt Kit for 1500 lb. ANSI Flanges

\* 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.

ANSI Flanges supplied by customer.