

Model H242 Helical Flow Meter (Frequency) 1 liter/min to 500 liters/min

SPECIFICATIONS

Flow Range	1 liter/min to 500 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	18.5 kg
Recommended Filtration	150 micron
Port Size(s)	2 1/2" NPT 2 1/2" (DN 65) ANSI RF flanges - Customer Supplied
Fluids	Most non-aqueous, hydrocarbon based liquids
Options	Liquid heat trace bodies available



Model H242

MATERIALS OF CONSTRUCTION

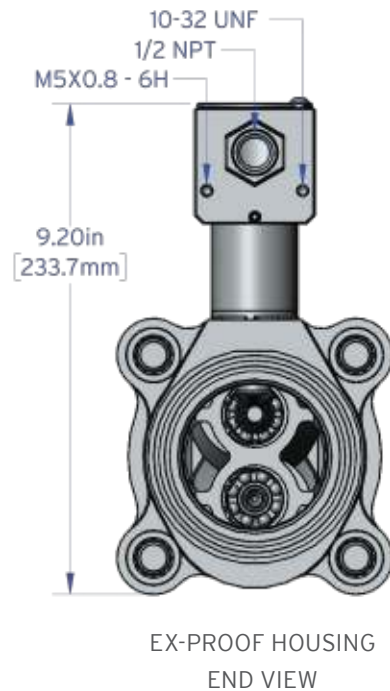
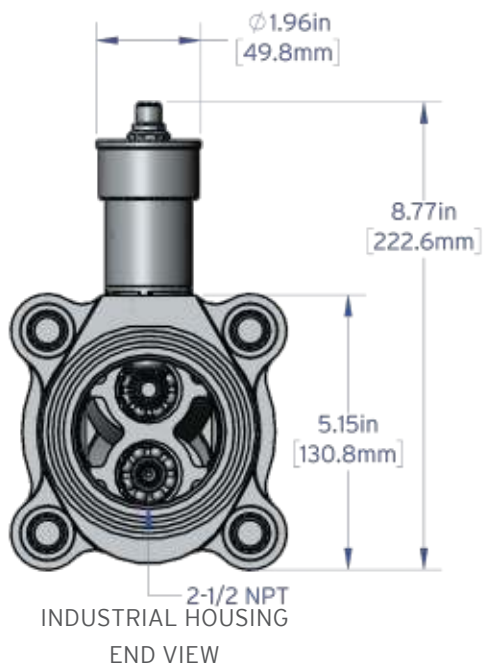
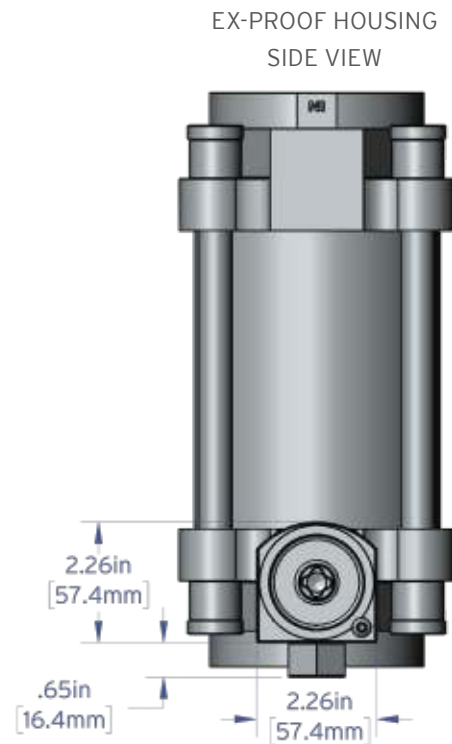
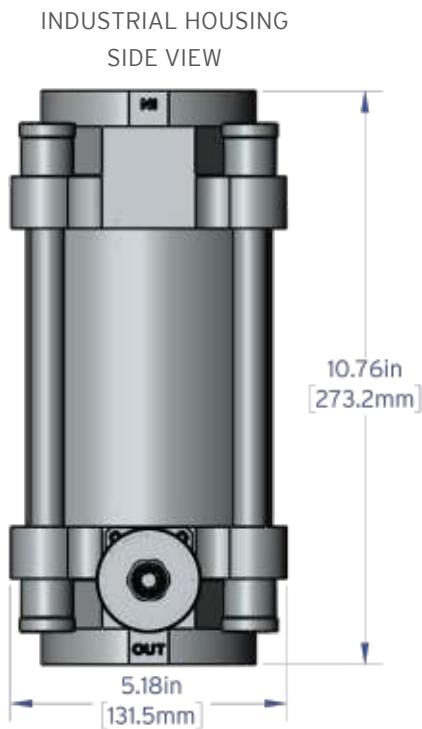
External	Stainless steel, type 303, Nitrided type 303; Zinc plated bolts
Wetted	Stainless steel, type 303, Nitrided type 303, 440C; Alnico magnet
O-Rings	Standard: Viton® Optional: Teflon®, Perfluoroelastomer

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: 5,000 pulses/liter Two Phase: 10,000 pulses/liter, 4x decoded (2,500 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 H242LS Flow Meter

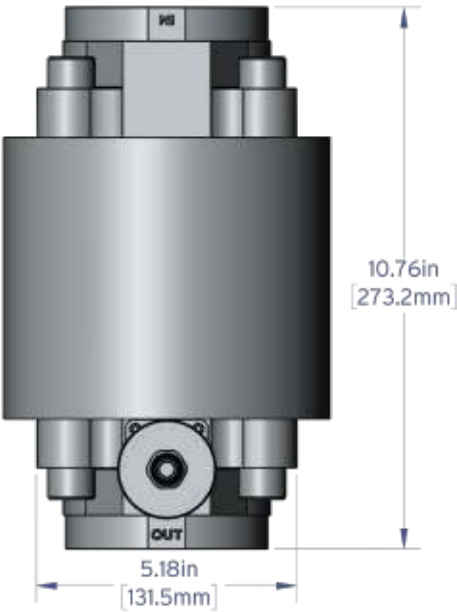
DIMENSIONS (Not to Scale)



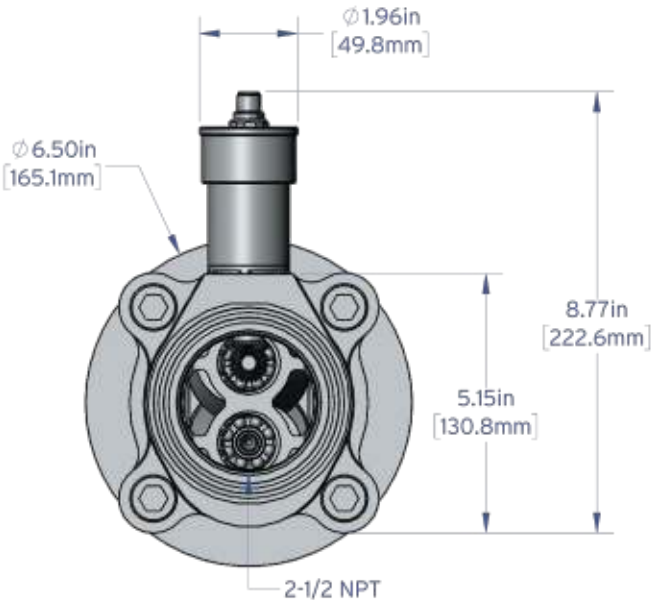
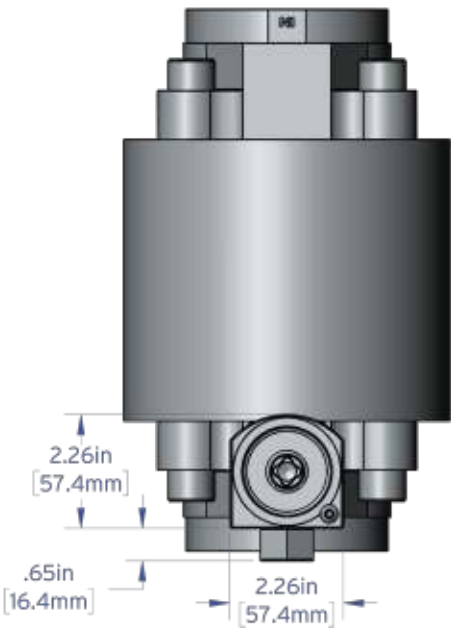
Model H242MS Flow Meter

DIMENSIONS (Not to Scale)

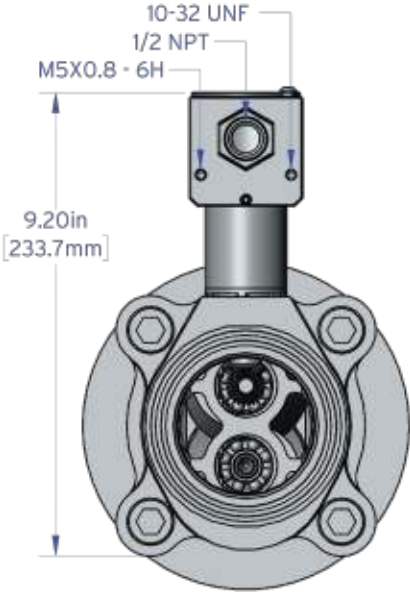
INDUSTRIAL HOUSING
SIDE VIEW



EX-PROOF HOUSING
SIDE VIEW



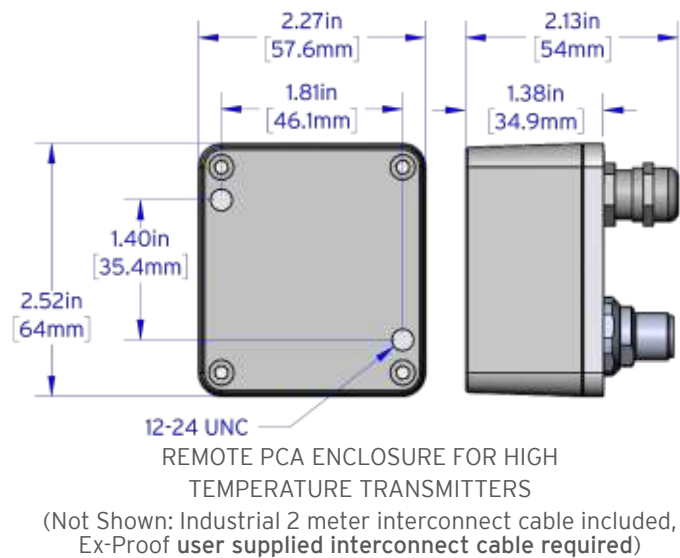
INDUSTRIAL HOUSING
END VIEW



EX-PROOF HOUSING
END VIEW


Model H242 Flow Meter

DIMENSIONS (Not to Scale)

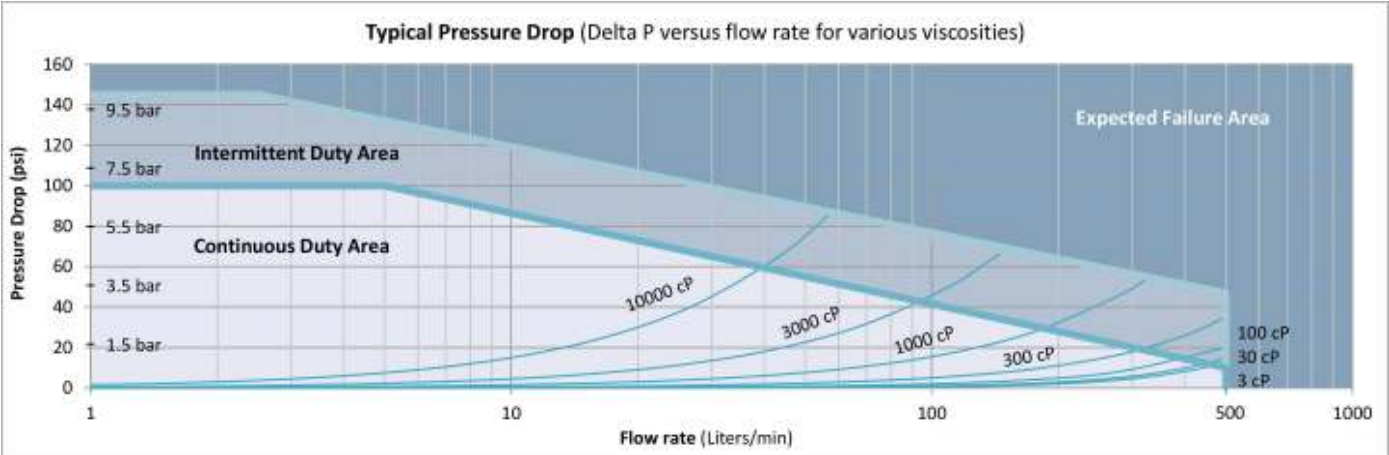


CONNECTIVITY

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	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 - Powered by 5-26 Vdc
N	5V Quadrature - Powered by 5-26 Vdc
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.