

## Model G045 Gear Flow Meter (Analog) 25 cc/min to 45 liters/min

### SPECIFICATIONS

Flow Range	25 cc/min to 45 liters/min
Accuracy (at 30 cP)	± 0.3% of reading over a 100:1 range, or ± 2mV (or 4μA), whichever is greater
Maximum Operating Pressure	414 bar (6000 psi)
Displacement	13.5 cc/rev
Weight	3.7 kg
Recommended Filtration	30 micron
Port Size(s)	1/2" NPT or #8 SAE
Fluids	Most non-aqueous, hydrocarbon based fluids

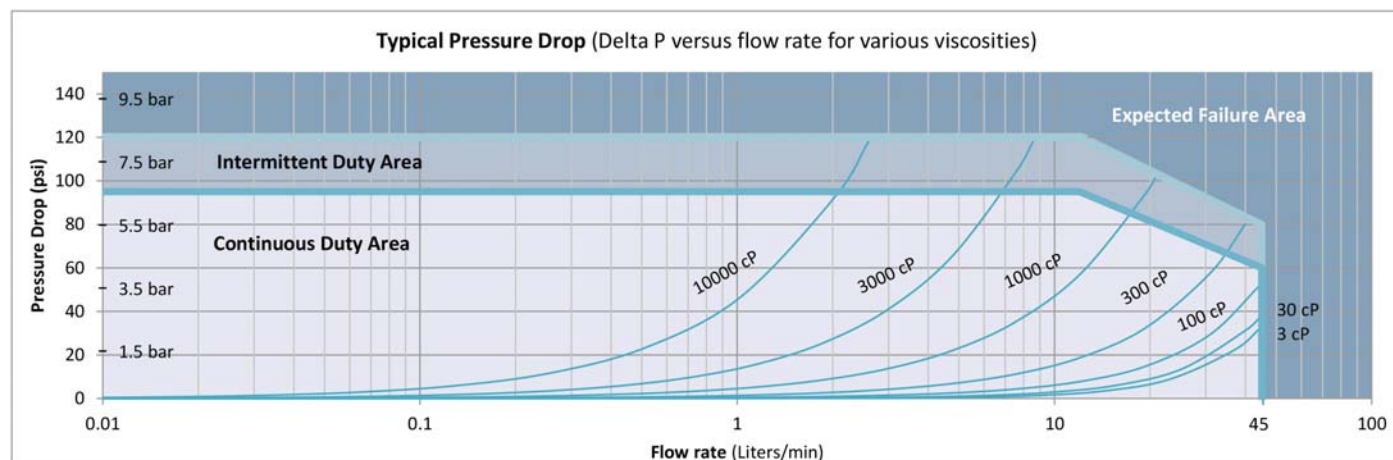


### MATERIALS OF CONSTRUCTION

Body	Stainless steel, type 303
Gears and Shafts	Stainless steel, type 17-4
Bearings	All ball bearings, 440C stainless steel
Seals	Viton®- standard, Teflon®, Perfluoroelastomer – optional

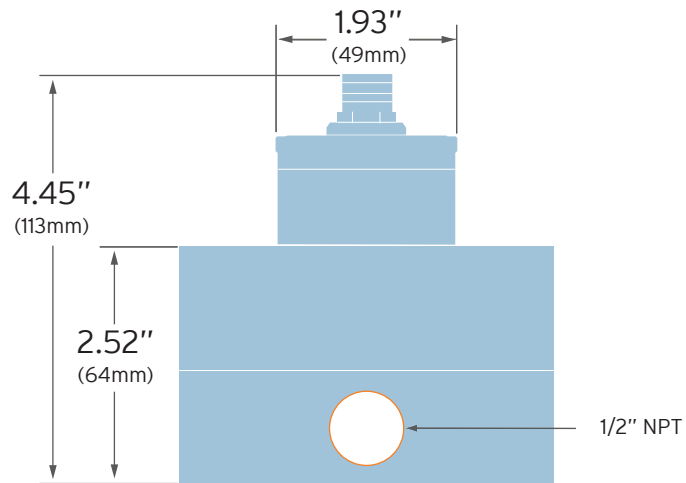
### ANALOG TRANSMITTER

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 155°C, Two piece high temperature model -40°C to 225°C, Two piece, ultra 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

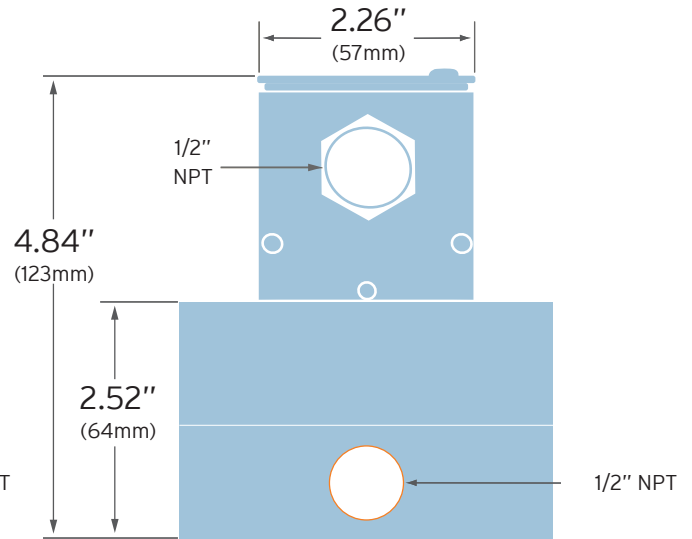


# Model G045 Flow Meter (Analog)

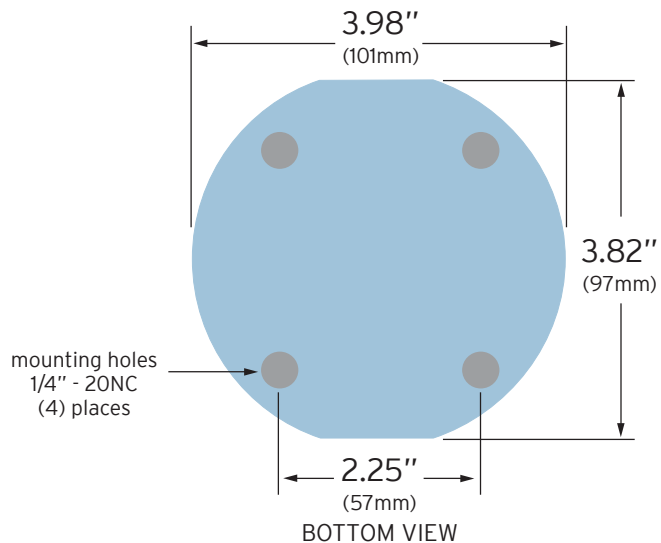
CONNECTIVITY/DIMENSIONS (Not to scale)



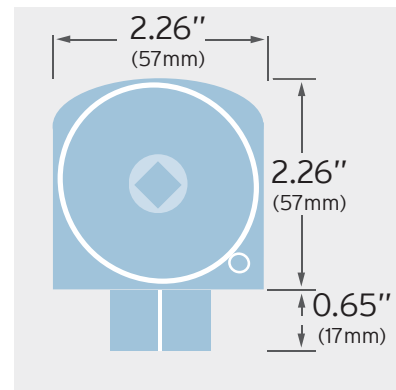
MODEL G045 WITH INDUSTRIAL HOUSING TRANSMITTER



MODEL G045 WITH EX-PROOF HOUSING TRANSMITTER



BOTTOM VIEW

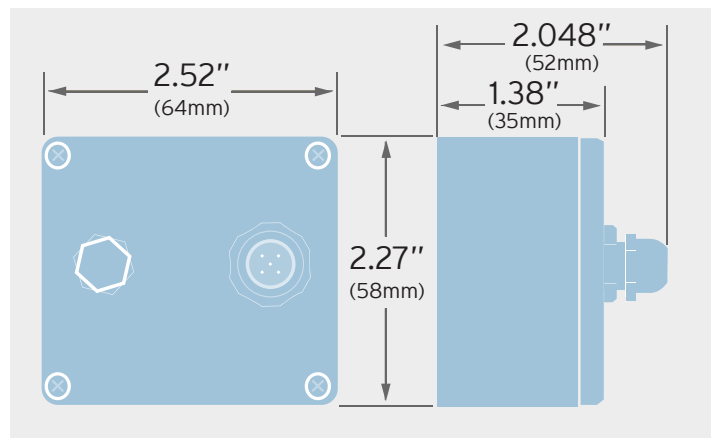


EX-PROOF HOUSING TOP VIEW

## ELECTRICAL CONNECTION – ANALOG TRANSMITTERS

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

\* Please specify 12Vdc or 24Vdc operation



REMOTE PCA ENCLOSURE FOR HIGH TEMPERATURE TRANSMITTERS  
(2 meter interconnect cable, not shown)



Max Machinery, Inc.  
an ISO 9001:2008 certified company

## Positive Displacement Flow Meters Gear Type, G Series

### Flow Meter Selections

Model #	G045	HS			
Max flow range	45 Liters/min	G045			
Pressure	6000 psi (414 bar)	HS			
Fluid Connection	NPT 1	SAE 2			
Seal Selection	Viton® - FKM 1	Teflon® - PTFE ** 3	Perfluoroelastomer - FFKM 5		
Options	None NA	Heat trace option HT			

### Transmitter Selections

				1	Non-standard options
					Bi-directional cal BID
				1	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	90°C
				2	155°C - 2 part tach *
				3	225° C - 2 part tach *
					Electrical Connection
				1	Turck® connector
				2	Hazardous location *
					SIGNAL TYPE
P					Pulse
A					Analog
Q					Quadrature

Product includes single directional calibration, bi-directional calibrations for Analog and Quadrature devices are optional.

\* Consult factory regarding 130°C maximum and other temperature limitations for hazardous location installations.

\*\* Teflon® seals are not suitable for operating temperatures above 90°C for these high pressure products.