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

#### **SPECIFICATIONS**

Flow Range 25 cc/min to 45 liters/min

Accuracy (at 30 cP)  $\pm$  0.3% of reading over a 100:1 range

Maximum Operating Pressure 6000 psi (414 bar)

Weight 3.7 kg
Recommended Filtration 30 micron

Port Size(s) 1/2" NPT or #8 SAE or Manifold Mount

Fluids Most non-aqueous, hydrocarbon based fluids



#### MATERIALS OF CONSTRUCTION

External Stainless steel, type 303; Fluoropolymer coated bolts; MoS2 lubricant

Wetted Stainless steel, type 303, 440C, 17-4;

Nickel plated SmCo 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: 70 pulses/cc

Two Phase: 140 pulses/cc, 4x decoded

(35 pulses/cc/phase, 1x decoded)

Power Supply Requirements 5 - 26 Vdc, @ 30 mA

Ambient Operational Range -40°C to 80°C, Single piece – Two piece to 110°C

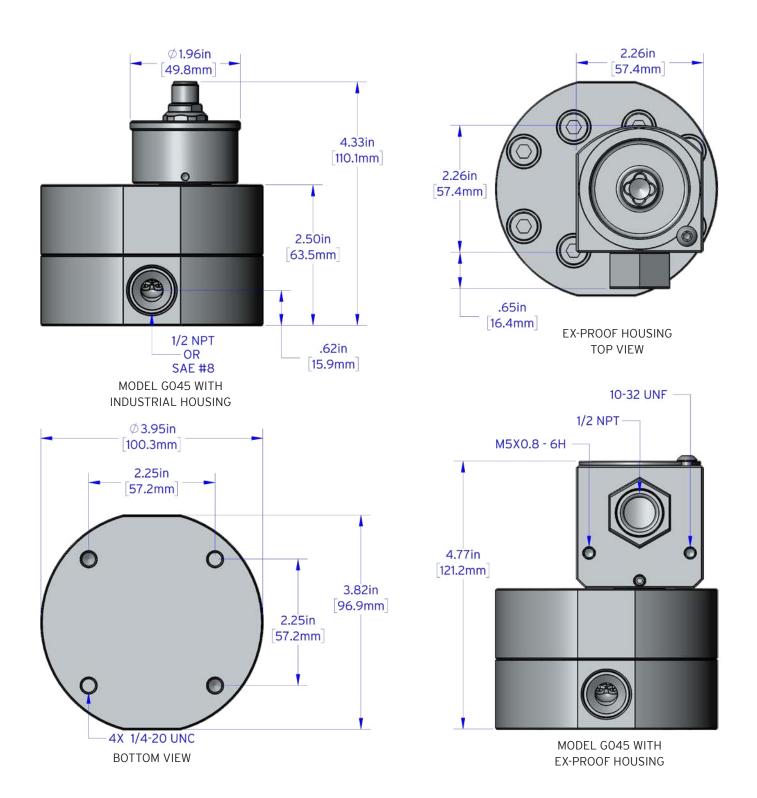
Metered Liquid Temp Range -40°C to 90°C, Standard model

(based on 20° ambient) -40°C to 155°C, Two piece high temperature model

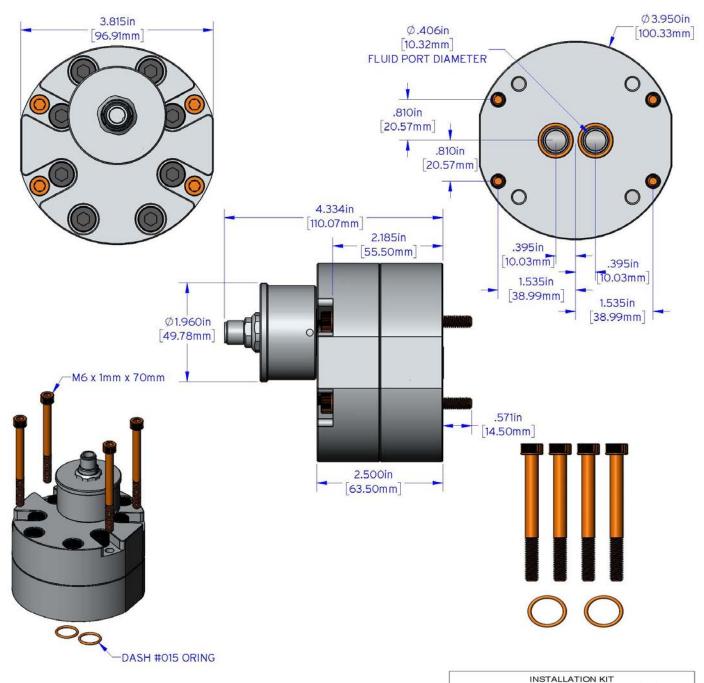
-40°C to 225°C, Two piece, ultra high temperature model

Compliance CE Certified, Ex-proof version available with ATEX/IECEx II 2 G Ex db IIB Tx Gb as well

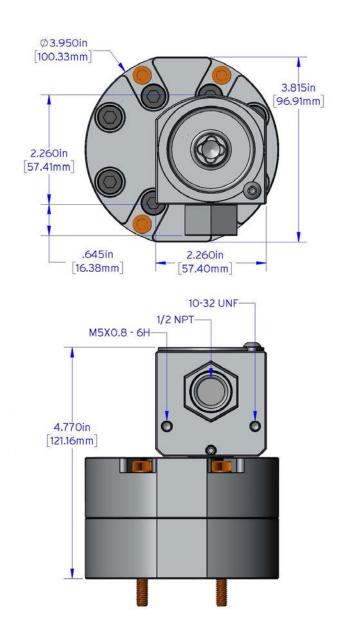
as UL, cUL certification for Class 1, Division 1, Groups C and D, Tx



#### DIMENSIONS (Not to scale) - Manifold Specifications

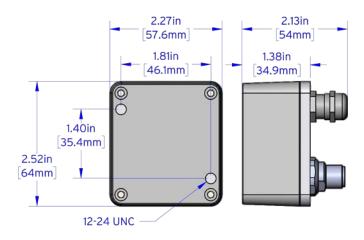


INSTALLATION KIT				
Description	G045-MM-KIT-VIT/QTY.	G045-MM-KIT-TEF/QTY.	G045-MM-KIT-PER/QTY.	
SHCS M6x1x70 COATED	4	4	4	
O-RING 90 FKM 9/16X11/16X1/16	2	-		
O-RING PTFE 9/16X11/16X1/16	7-0	2	-	
O-RING 90 FFKM 9/16X11/16X1/16	-	14	2	



### Model G045 Flow Meter (Frequency)

#### DIMENSIONS (Not to scale)



# REMOTE PCA ENCLOSURE FOR HIGH TEMPERATURE TRANSMITTERS

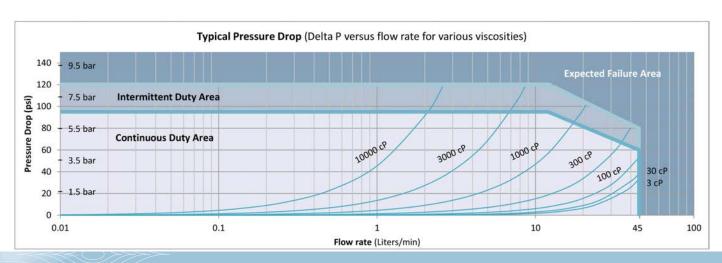
(Not Shown: Industrial 2 meter interconnect cable included, Ex-Proof user supplied interconnect cable required)

#### CONNECTIVITY

#### **ELECTRICAL CONNECTION -FREQUENCY TRANSMITTERS**

4 3			urck® nnector	
1 2	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



## Positive Displacement Flow Meters Gear Type, G-Series

Flow Meter Selections Transmitter Selections																		
Model #		HS				$/\Gamma$					/	· [	1	-			Non-Standard Options	
					•							_					Bi-Directional Cal: BID	
												1 Transmitter Type						
Max Flow Range												Output Type						
4 Liters/Min	G004					Α				Α		4-20mA Output - Powered by 24 Vdc						
15 Liters/Min	G015					Α				В		4-20mA Output - Powered by 12 Vdc						
45 Liters/Min	G045					Α				С		0-10 Volt Output - Powered by 24 Vdc						
105 Liters/Min	G105					Α				D		0-10 Volt Output - Powered by 12 Vdc						
240 Liters/Min	G240					Р				Ν		5V Pulse/Freq Powered by 5-26 Vdc						
Note: G105 & G240 not available in I Mount version	Manifold					Q				Ν		5V Quadrature - Powered by 5-26 Vdc				- Powered by 5-26 Vdc		
						Р				S		Cu	ırre	ent	Sinki	ng	, Single Phase	
Pr	essure									Tei	mį	ре	rat	ur	e Ra	tir	ng	
6000 psi (	(414 bar)	HS							1	909	٥С	C Industrial / 75°C Haz-Loc						
Note: G240 limited to 4000 ps	i (275 bar)							2 155°C Ind. / 130°C Haz-Loc, 2 Part **										
if specified with NPT co	nnections								3 225°C Industrial, 2 Part †					rt †				
Fluid	Connec	tion						Electrical Connection										
		NPT	1				1	1 Industrial, Turck® Connector					ctor					
		SAE	2				2	2	Ha	zard	ou	ıs L	.oc	atio	on, 1/2	2 lı	nch Conduit*	
М	anifold M	ount	4															
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	Seal Se					_		_		Туј	pe	j						
		า® - F		1		P		uls										
	Teflon® -			3		Д		Analog										
Perfluoro	elastome	er - FF	KM	5		C	Ç	)ua	adra	ture	,							
		$\cap$	ntio	ne														



None NA

(Note: Not available in Manifold Mount) Heat Trace Option HT

- \* See temp chart in product manual.
- \*\* Receiver portion of 2 part transmitters are not rated Ex-Proof, consult factory.
- \*\*\* Teflon® not used above 90°C for this high pressure rated product.
- † 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.



Model G015