



Model CGM1 Gear Flow Meter (Frequency) 1.0 cc/min to 2 liters/min

SPECIFICATIONS

Flow Range	1 cc/min to 2 liters/min
Accuracy (at 30 cP)	± 1.0% of reading over a 100:1 range
Accuracy (at 3 cP)	± 1.0% of reading over a 100:1 range (\leq 100 psi*)
Maximum Operating Pressure	250 psi (17 bar)
Weight	0.4 kg
Recommended Filtration	10 micron
Port Size(s)	1/8" NPT or 1/8" BSPP
Fluids	Most aqueous and hydrocarbon-based fluids
Typical Fluid pH Range	2 to 13



MATERIALS OF CONSTRUCTION

External	Unfilled PEEK: Stainless Steel, type 303, 316, 17-7; FKM
Wetted	Unfilled PEEK: Zirconia (ZrO ₂)
O-Rings	Standard: FEPM (Fluoroelastomer) Optional: FFKM (Perfluoroelastomer)

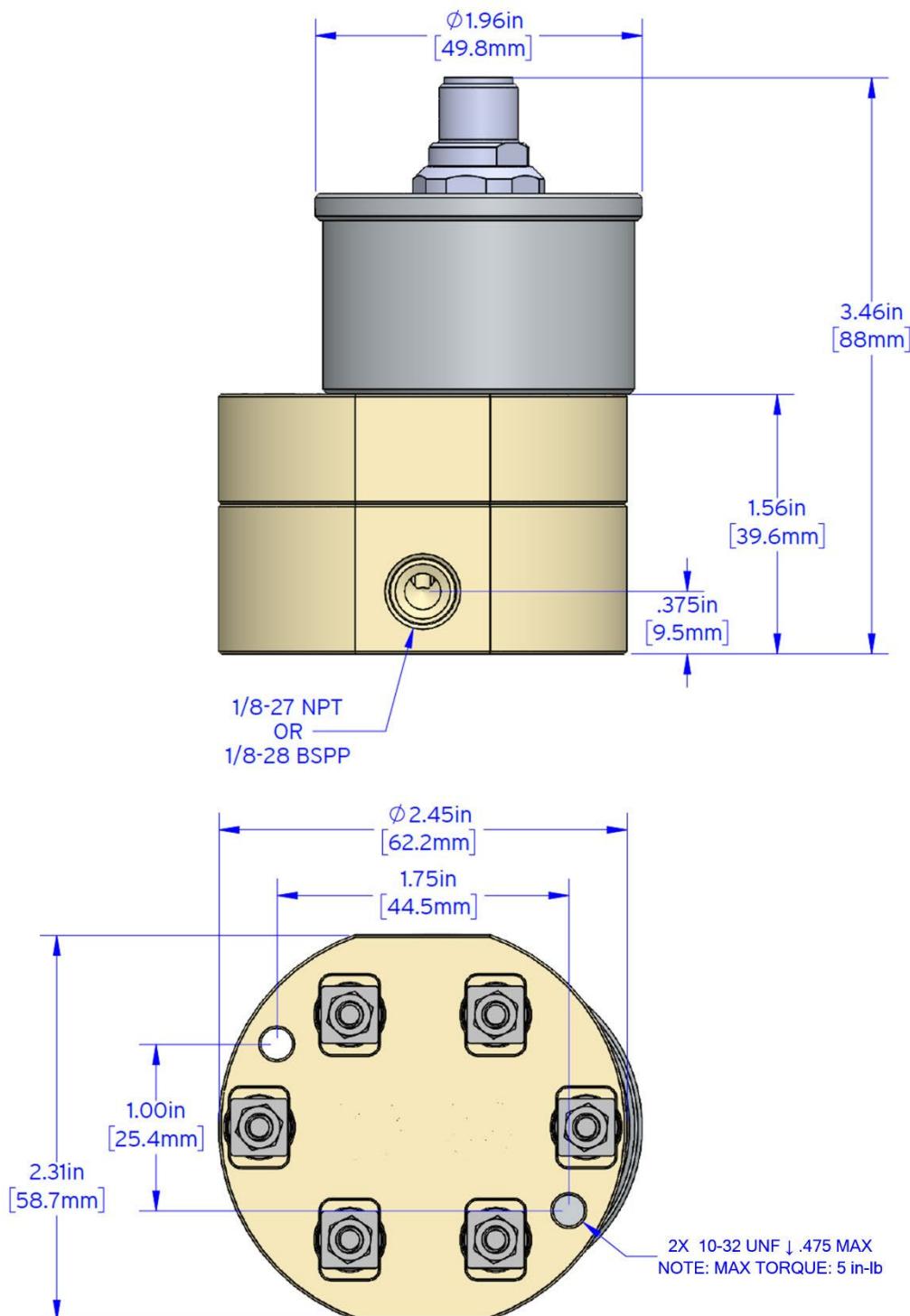
FREQUENCY TRANSMITTER

Output Signal	Standard: 5 Vdc, single phase Optional: Quadrature 5 Vdc, two phase Current sinking, 20 mA max., single phase
K-Factor	Single Phase: 500 pulses/cc Two Phase: 1,000 pulses/cc, 4x decoded (250 pulses/cc/phase, 1x decoded)
Power Supply Requirements	5 - 26 Vdc, at 30 mA
Ambient Operational Range	-15°C to 70°C
Metered Liquid Temp Range	-15°C to 70°C
Compliance	CE Certified - IP65 Rated

*When operating above 100 psi, accuracy over the 100:1 range may increase to +/- 3% of reading

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DIMENSIONS (Not to scale)



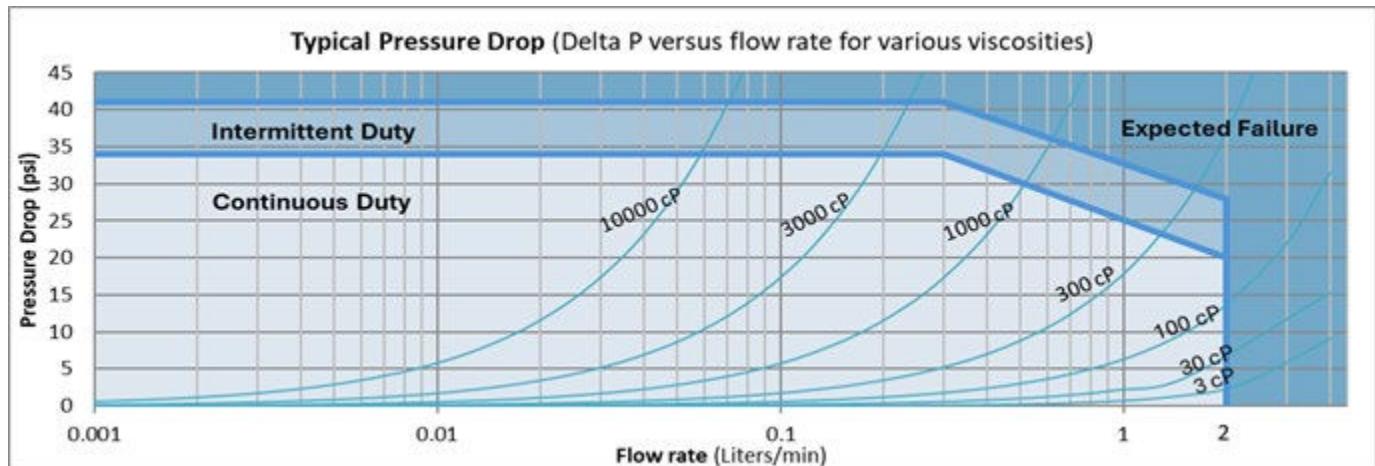
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CONNECTIVITY

Electrical connection - Frequency Output Transmitters

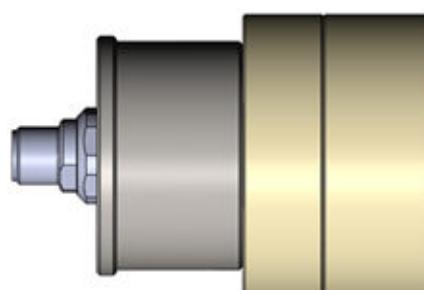
 Turck® Connector		
PCA Label	Pin #	Mating Cable Wire Color
Power (+5 to 26 Vdc)	V+	1 Brown
Common	Com	4 Black
Pulse Output	Ph A	2 White
Output Phase B (Quad only)	Ph B	5 Grey
Case Ground	Case	3 Blue

PRESSURE DROP GRAPH



CGM1 Flow Meter

Flow Meter Selections				Transmitter Selections											
Model #	LP			/		1	-	Non-Standard Options Bi-Directional Cal: BID							
Max Flow Range 2.0 Liters/Min CGM1				A	Output Type										
Pressure 250 psi (17 bar) LP				A	A 4-20mA Output - Powered by 24 Vdc										
Fluid Connection NPT 1 BSPP 6				A	B 4-20mA Output - Powered by 12 Vdc										
Seal Selection AFLAS® - FEPM 9 Perfluoroelastomer - FFKM 5				A	C 0-10 Volt Output - Powered by 24 Vdc										
Options Calibration Viscosity 30 cP C1 Calibration Viscosity 3 cP C2 (Consult Factory) Calibration Viscosity 1 cP C3				A	D 0-10 Volt Output - Powered by 12 Vdc										
CGM Viscosity Calibration Guide								N	N 5V Pulse/Freq. - Powered by 5-26 Vdc						
Application Use Viscosity (cP)		Factory Calibration Viscosity (cP)						Q	N 5V Quadrature - Powered by 5-26 Vdc						
≥ 10		30						P	S Current Sinking, Single Phase						
2 ≤ Use ≤ 10		3						Temperature Rating							
2 or less		1						1	70°C Industrial						



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