



Max Machinery, Inc.
an ISO 9001:2015 certified company



Model CGM1 Gear Flow Meter (Analog) 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, or ± 2mv (or 4µA), whichever is greater
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: FEP (Fluoroelastomer) Optional: FFKM (Perfluoroelastomer)

ANALOG TRANSMITTER

Output Signal	Any range of ± 10V or ± 20mA Linearized and damped with anti-dither protection.
Power Supply Requirements	Two Models: 12Vdc at 90 mA, 24Vdc at 45mA
Ambient Operational Range	-15°C to 70°C
Metered Liquid Temp Range	-15°C to 70°C

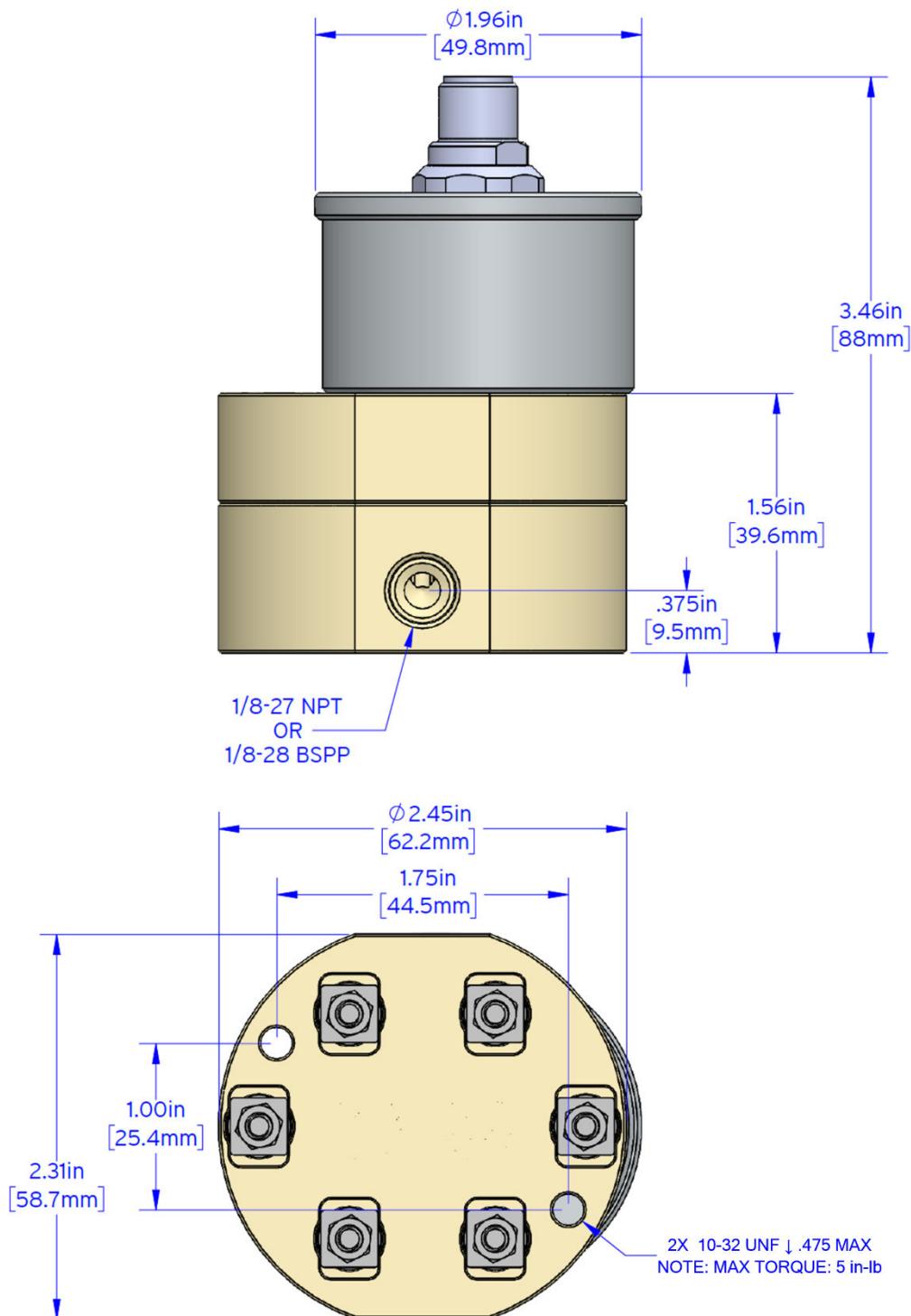
Compliance	CE Certified - IP65 Rated
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*When operating above 100 psi, accuracy over the 100:1 range may increase to +/- 3% of reading



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DIMENSIONS (Not to scale)



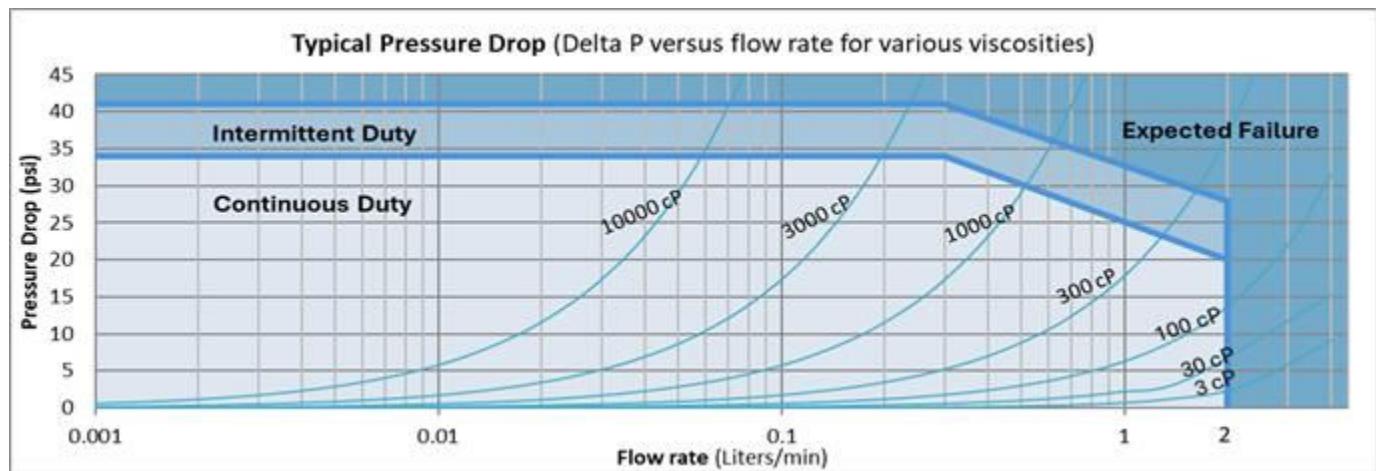
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CONNECTIVITY

Electrical connection - Analog Current or Voltage Output

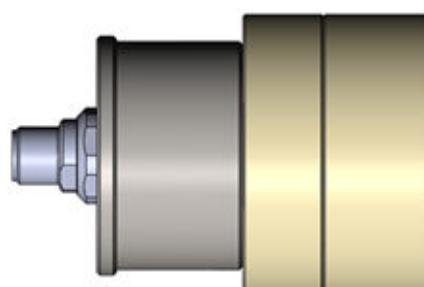
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PRESSURE DROP GRAPH



CGM1 Flow Meter

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



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