

Positive Displacement Flow Meter

GF200 Series - Low Flow

Introduction

GF200 positive displacement flow meter measures the flow on the volumetric principle, in which gearwheels is moved proportional to the flow rate. The movement of the gearwheels is measured through the enclosing housing wall by a sensor.

Designed for very low flow applications, the GF200 can measure as low as 0.005GPM. High pressure rating, high accuracy and repeatability, as well as wide measuring range make it ideal for lubricating or non-lubricating fluids.



Features

- Min. Flow: 0.005 GPM
- High pressure rating
- Higher trundown
- High accuracy and repeatability

Applications

- Hydraulic / lubricating system
- High-viscosity fluid dosing
- Test bench
- Chemical processing
- Oil & Gas

Specifications

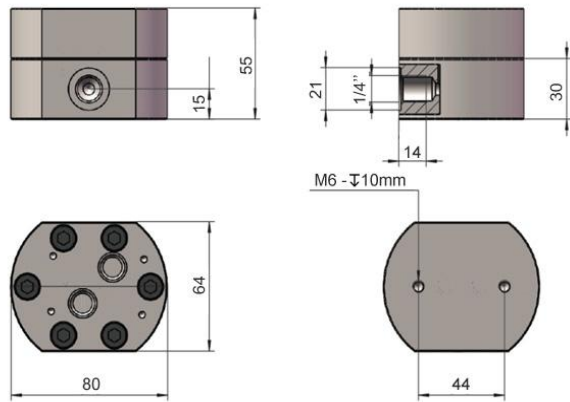
Applicable Medium	Medium to high viscosity fluids
Accuracy	±0.5% of reading (turndown ratio 10:1) ±1% of reading (full range)
Repeatability	±0.1% of reading
Pressure Rating	See measuring range below for details
Medium Temperature	-40...210°F(-40...100°C) See electronics order code for higher options
Materials	Housing: 316L SS
	Gear: Duplex SS
	Sealing: FPM / NBR / PTFE / EPDM
	Bearing: SS Ball Bearing
	Shaft: Tungsten Carbide
	Bolts: Carbon Steel

Measuring range

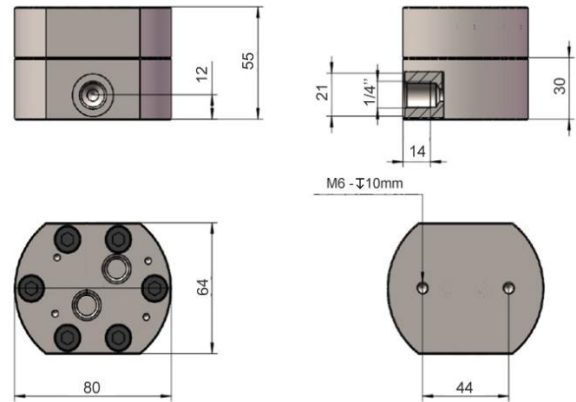
Part Code	End Fitting	Measuring Range (gal/min)	Measuring Range (L/min)	K Coefficient (IMPULSE/L)	Max. Filter Diameter (Micron)	Max. Pressure	
						psi	bar
R05	1/4" (NPT / BSPP)	0.005...0.5	0.02...2	40000	30	6,000	420
R08	1/4" (NPT / BSPP)	0.008...0.8	0.03...3	13500	30	6,000	420

Dimension in mm

Measuring range: R05



Measuring range: R08



Order Code

Example: GF200-R7GFFS6

1. Model

GF200- Low Flow Positive Displacement Flow Meter

2. Measuring range

R05 0.005...0.5 GPM
R08 0.008...0.8 GPM

3. End Fitting

GF BSPP female thread
NF NPT female thread
BP Manifold Mount (bottom port)
S Other connections on request

4. Sealing Material

F FPM (standard)
B NBR
P PTFE
E EPDM

5. Housing Material

S6 316L stainless steel

Electronics

1. Model

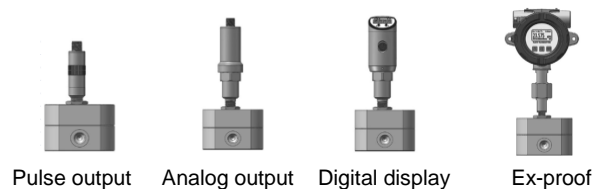
S2000- For positive displacement flow meter

2. Output

P1 Pulse output
P2 Linearized pulse output
A Analog output (4...20mA)
D Digital transmitter
E Ex-proof transmitter

3. Temperature

T1 -40...210°F (-40...100°C)
T2 -40...300°F (-40...150°C)
T3 -40...450°F (-40...230°C)



Electronics**1. Model**

S2000D- Dual-sensor for positive displacement flow meter

2. Output

P1 Single pulse output with 4 x pulse resolution
P2 Dual-pulse Output
(Quadrature signal with 90° phase shift)
A 4...20mA + flow direction detection
V -10...10V + flow direction detection

3. Temperature

T1 -40...210°F (-40...100°C)
T2 -40...300°F (-40...150°C)
T3 -40...450°F (-40...230°C)



[See electronics datasheet for details](#)