

Positive Displacement Flow Meter

GF100 Series - Industrial

Introduction

The GF100 positive displacement flow meter operates on the volumetric principle, utilizing precision rotors that rotate in direct proportion to the flow rate, with speed monitored by a high-precision sensor.

Featuring a robust design rated up to 10,000 psi, diverse end fittings, and stainless steel ball bearings, it is ideal for demanding industrial applications.

It offers a measurement range of 0.005 to 120 GPM (0.02 to 450 LPM), with optional pickups for pulse, analog, or combined analog/alarm outputs.



Features

Range: 0.005 to 120 GPM (0.002 to 450 LPM)

Analog / Pulse output

Bi-directional flow measurement

High accuracy and repeatability

Higher trundown ratio

Ideal for non-lubricating fluids

Applications

Chemical processing

Oil & Gas

Hydraulic & Lubrication

Painting and Coating

Automotive

Aviation ...

Specifications

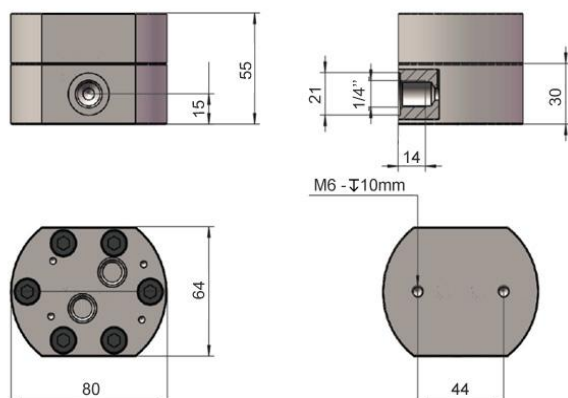
Applicable Medium	Liquids
Accuracy	±0.5% of reading (turndown ratio 10:1) ±1% of reading (full range)
Repeatability	±0.1% of reading
Pressure Rating	See measuring range below for details
Medium Temperature	-40...210°F (-40...100°C) See electronics order code for higher options.
Materials	Housing: 316L SS / 304 SS / Aluminum Gear: Duplex SS Sealing: FKM / NBR / PTFE / EPDM Bearing: SS Ball Bearing Shaft: Tungsten Carbide Bolts: Carbon Steel

Flow Range

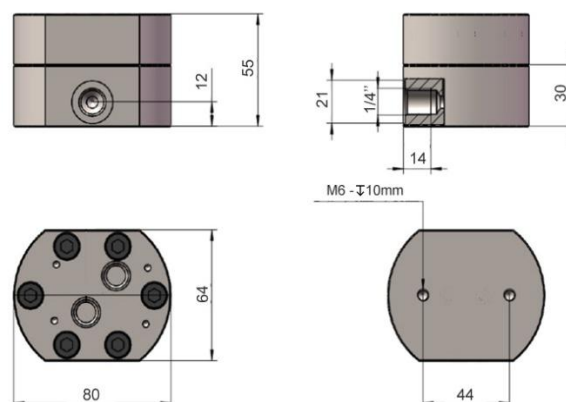
Part Code	End Fitting (Female Thread)	Flow Range		K Coefficient		Max. Filter Diameter (Micron)	Max. Pressure (psi)	
		GPM	LPM	Pulses/Gal	Pulses/L		316L SS	Aluminum
R05	1/4" (NPT / BSPP)	0.005...0.53	0.02...2	70,000	18,500	30	6,000 psi (420 bar)	3,600 psi (250 bar)
R08	1/4" (NPT / BSPP)	0.008...0.79	0.03...3	51,100	13,500	30		
R2	1/4" (NPT / BSPP)	0.02...1.98	0.075...7.5	15,700	4,155	30		
R7	1/2" (NPT / BSPP)	0.06...6.6	0.25...25	6,380	1,685	30		
R10	1/2" (NPT / BSPP)	0.1...10.57	0.4...40	2,900	765	30		
R20	3/4" (NPT / BSPP)	0.2...19.8	0.75...75	1,700	450	200	5,000 psi (345 bar)	2,100 psi (150 bar)
R40	1" (NPT / BSPP)	0.4...39.6	1.5...150	510	135	200		
R60	1-1/4" (SAE Flange)	0.6...59.4	2.25...225	416	110	200		
R120	1-1/4" (SAE flange)	1.1...118.9	4.5...450	208	55	200		

Dimension in mm

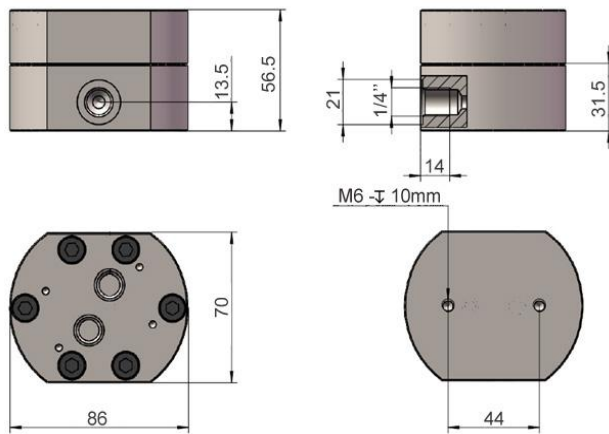
Flow Range: R05



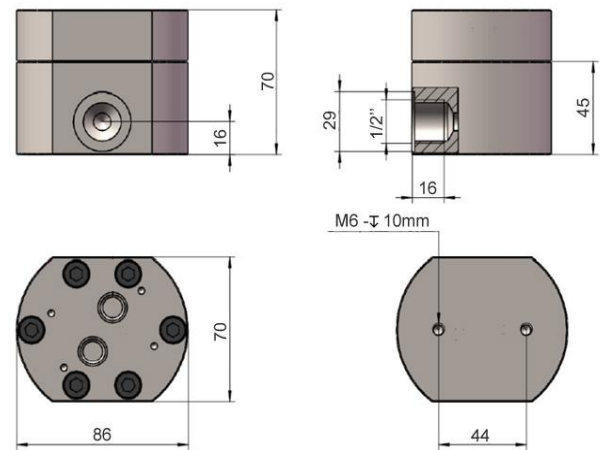
Flow Range: R08



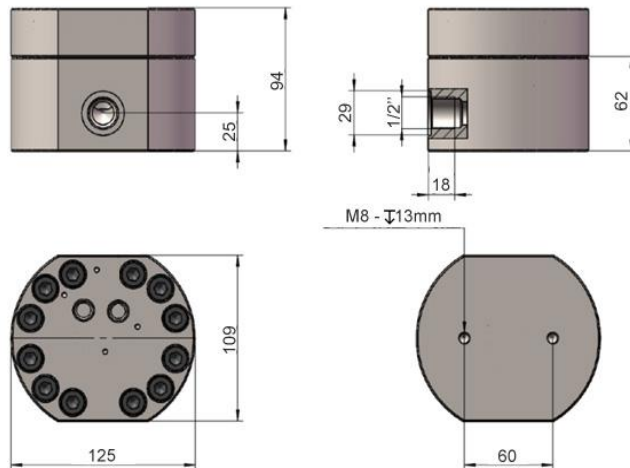
Flow Range: R2



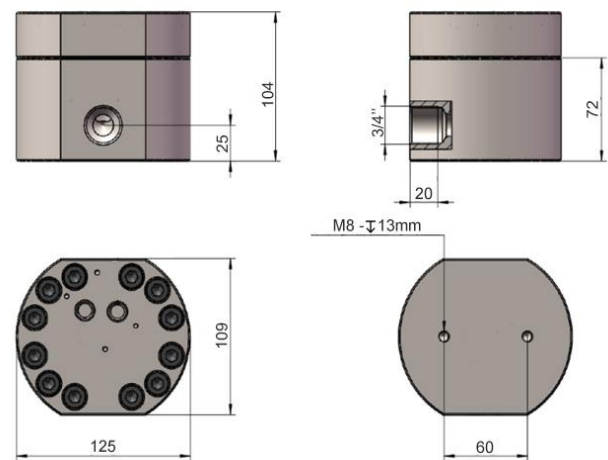
Flow Range: R7



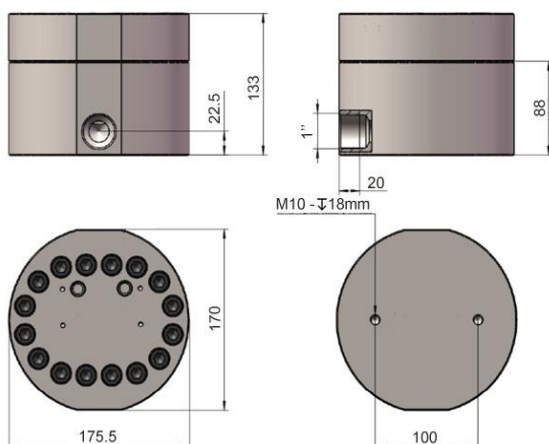
Flow Range: R10



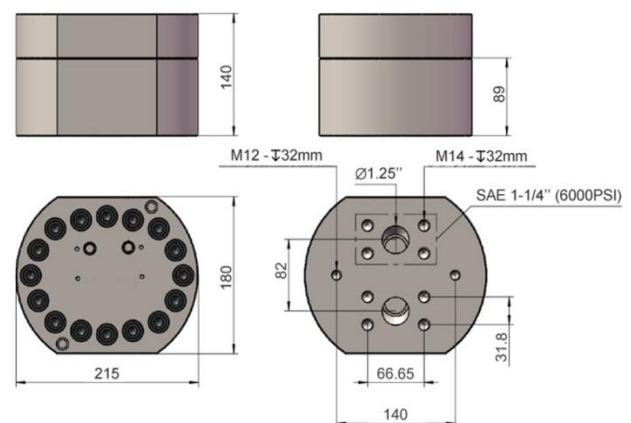
Flow Range: R20



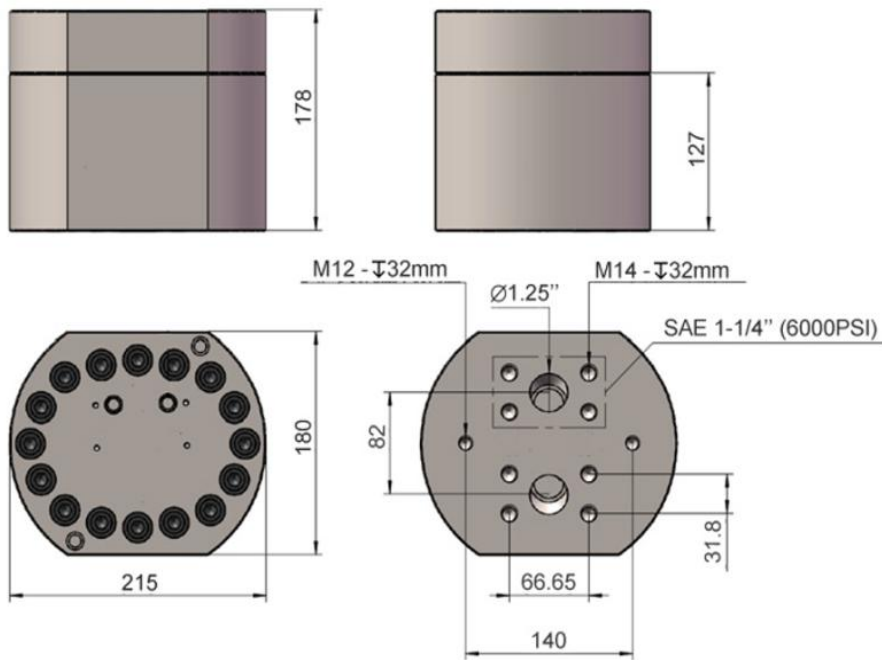
Flow Range: R40



Flow Range: R60



Flow Range: R120



Order Code

Example: GF100-R7GFFS4

1. Model

GF100- Industrial Positive Displacement Flow Meter

2. Flow Range

R2 Select a part code from flow range table above.

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 FKM (standard)
- B NBR
- P PTFE
- E EPDM

5. Housing Material

- A Aluminum
- S4 304 stainless steel
- S6 316L stainless steel

See next page for electronics options

Electronics Options

S2000 Pickup Coils / Transmitters

Amplified Pulse
Linearized 4...20mA Output



S2000D Dual-Sensor

Dual-Pulse / Analog Output
Flow Directional Detection



DE500 Local Display

Local Display
4...20mA + Alarms Output



SA500 Pickup Coils

Intrinsically Safe
Amplified Pulse



SX500 Flow Transmitters

Explosion-Proof
Modbus RS485



See electronics' datasheet for details.