GSF100 series - High Pressure
Positive Displacement Flow Meter

Introduction

We design and manufacture a wide portfolio of standard and custom-tailored Positive Displacement Flow Meters for high pressure applications. These meters are designed to withstand the harsh conditions including high pressure, low temperatures, and corrosive fluids.

Our High pressure PD Flow Meters are available in a wide variety of flow ranges and outputs, as well as a variety of materials for highest corrosion resistance.

With full line of testing and calibration equipments, we assure all our PD flow meters are with high accuracy, high reliability and high resolution to meet or beyond the highest standard of our customers.



Applications

Hydraulic Systems

Chemical Processing

Chemical & Methanol Injection

Laboratory

Valve actuation

Features

Field proven Solid and reliable design

High Accuracy 0.5%

Working pressure up to 15,000 psi

A variety of materials

Highly customizable

Specifications	
Flow Ranges	See order code below for details
Max working pressure	15,000 psi (1,035 bar)
Accuracy	0.5% of reading
Repeatability	0.1%
Materials	Body: 316L stainless steel (duplex available on request)
	Rotor: 316L stainless steel(duplex available on request)
	Sealing: FKM (NBR, PTFE available on request)
	Bearings: stainless steel ball bearing
Output	See transmitters' datasheet for details
Process connection	Autoclave (NPT, G available on request)
Wiring protection	Short-circuit
	Reverse polarity
Certification	ISO 9001; CE

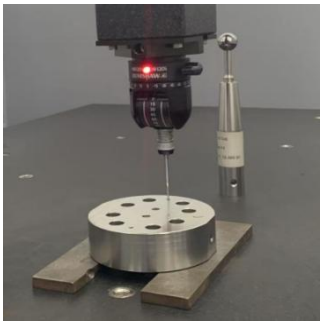
Flow Range

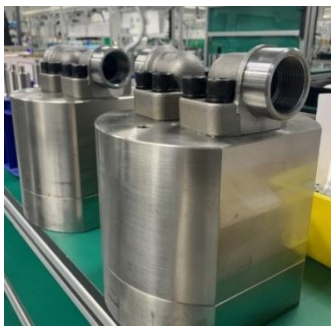
Part Code	Measuring Range		K Coefficient (Pulse/L)	End Fitting	Max. Working Pressure psi (bar)
	Gal/min	L/min			
R3	0.008…0.79	0.03…3	13500	3/8" Autoclave MP	15,000 psi (1,035 bar)
R7	0.02…1.98	0.075…7.5	4200	3/8" Autoclave MP	
R25	0.06…6.6	0.25…25	1400	3/8" Autoclave MP	
R40	0.1…10.57	0.4…40	840	3/4" Autoclave MP	
R75	0.2…19.8	0.75…75	450	3/4" Autoclave MP	
R150	0.4…39.6	1.5…150	190	1" Autoclave MP	10,000 psi (690 bar)
*Other ranges and end fittings available on request					

Customization

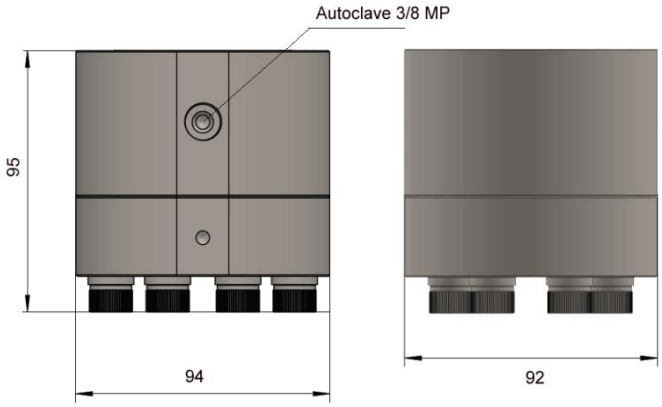
Our subsea flow meters are highly customizable to match your specific needs: parts material, process connection, electrical connection, signal output and housing.

Contact us to request a 3D file.

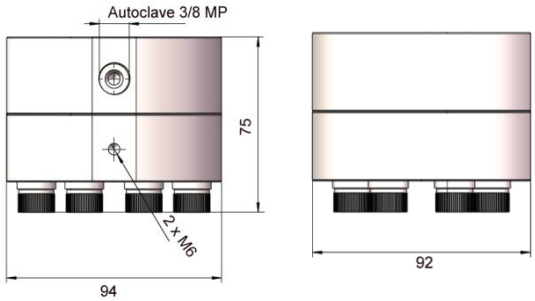




Dimensions in mm



GSF100-R7 (15,000 psi) as example



GSF100-R2 (15,000 psi) as example

Order information

GSF100 is a highly customizable product.
Below information is only for your references, please feel free to change any of below to meet your requirement.

1. Model

GSF100-	Subsea Positive Displacement Flow Meter

2. Measuring range

R3	0.008…0.79GPM (0.03…3LPM)
R7	0.02…1.98GPM (0.075…7.5LPM)
R25	0.06…6.6GPM (0.25…25LPM)
R40	0.1…10.57GPM (0.4…40LPM)
R75	0.2…19.8GPM (0.75…75LPM)
R150	0.4…39.6GPM (1.5…150LPM)

3. Process connection

AC	Autoclave
GF	Female BSPP thread
NF	Female NPT thread
-	Other connections on request

4. Sealing Material

F	FKM (standard)
B	NBR
P	PTFE
-	Other connections on request

5. Max. working pressure

10K	10000 psi (690 bar)
15K	15000 psi (1035 bar)

6. Body Material

SL	316Lstainless steel
D	Duplex stainless steel
-	Other material on request

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



Refer to the electronics datasheet for details.