

# Stainless steel liquid filled gauges

## Model GFS

Nominal size: 63 mm (2.5"), 100 mm (4")

ASME B40.100 / EN 837-1 / IS-3624

Accuracy: Class 1.6 (1.6%) for 63 mm, Class 1 (1%) for 100 mm

### Features

- Rugged stainless steel construction
- Socket and case welded
- Protection IP66/ IP68
- Usable to full scale
- Overload protection 130%
- Dry or liquid filled
- Measuring system stainless steel

### Ranges


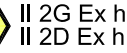
-30 in. Hg ... 0 psi up to 0 ... 23,000 psi  
 -1 ... 0 bar up to 0 ... 1600 bar & kg/cm<sup>2</sup>  
 -100 ... 0 kPa up to 0 ... 160,000 kPa



### Applications

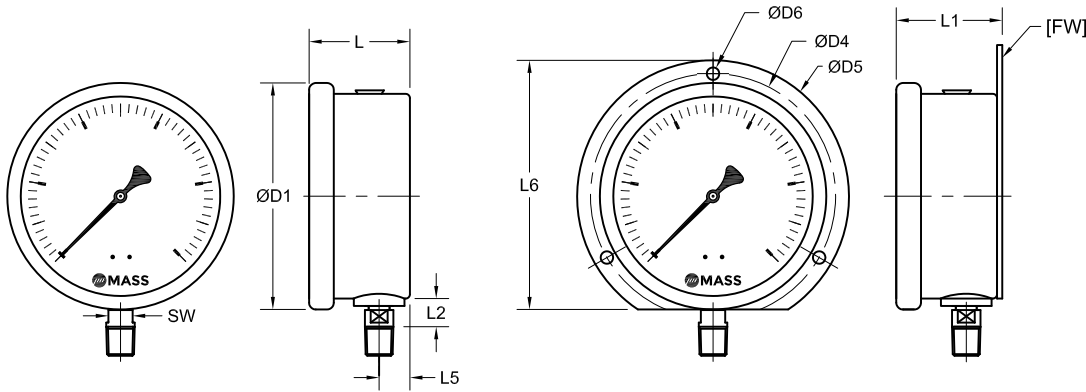
Power packs  
 Hydraulic machinery  
 HVAC & Refrigeration  
 Pumps  
 Power plants  
 Pipelines  
 Transmission stations



Technical specification	GFS	
Dial size in mm	63	100
Construction	Open front cylindrical case with crimp type bezel ring	
Measuring principle	Bourdon tube	
Range in kg/cm <sup>2</sup> (or bar)	1 1.6 2.5 4 6 10 16 25 40 60 100 160 250 400 600 1000 1600 -1/0 -1/0.6 -1/1.5 -1/3 -1/5 -1/9 -1/15 -1/24	
Overpressure limit	130 % F.S., short time.	
Pressure type	Gauge, vacuum and compound	
Process connection	1/8" 1/4" BSP / NPT (M)	1/4" 3/8" 1/2" BSP / NPT (M), M20x1.5(M)
Connection location	Lower, back	
Material	Pressure connection: Stainless steel 304, 316L, Monel, Hastelloy C276, Inconel 625 Tube: Stainless steel 316L, optional Monel, Hastelloy C276, Inconel 625 Case/bayonet ring: Stainless steel 304, optional 316L Window: Acrylic glass, optional laminated safety glass Dial: Aluminum, black markings on white background Pointer: Plastic, Black   Aluminum, black Movement: Stainless steel 304, optional 316L	
Accuracy	Class 1.6 (1.6% F.S)	Class 1 (1 % F.S.)
Permissible	Ambient temperature: -40 ... 60 °C (-40 ... 140 °F) Medium temperature: Max. 200 °C (392 °F) (dry), max. 100 °C (212 °F) (for liquid filled) Storage temperature: -40 ... 65 °C (-40 ... 150 °F) Effect: Max. 0,3 % / 10 K	
Protection according	IP66/ IP68	
Optional Approval	Conformity according to 2014/34/EU for mechanical equipment in potential hazardous areas  II 2G Ex h IIC T6..T1 Gb X  II 2D Ex h IIIC T85..T450°C Db X	
Filling liquids	Glycerin, silicone, halocarbon, others on request	
Mounting	Standard stem, optional panel, bracket, surface or others on request	
Weight with liquid filling in kg	0.21	0.75
Accessories, options	Diaphragm seals, valves, dampener, gauge saver, etc	

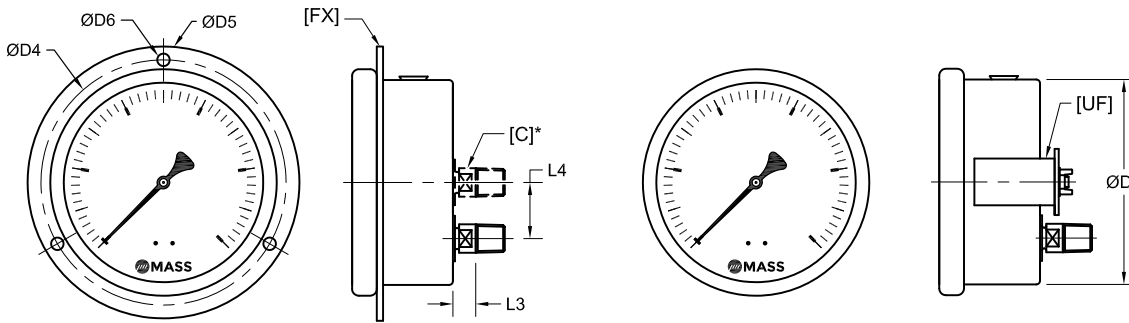
All specifications are subject to change without notice.

### General dimensions in mm



**Lower Connection Direct Mounting**

**Lower Connection Surface Mounting**



**Back Connection Front Panel Mounting**

**Back Connection U-Clamp Mounting**

DIAL SIZE	63	100
ØD1	67.7	108
ØD2	61.5	98.5
ØD4	75	118
ØD5	85	132
ØD6	3.6	6
L	32.5	47.5
L1	37	51
L2	13	16
L3	13	18
L4	-	27
L5	10.8	14.8
L6	78	122
SW	11	17

[C]\* for 63mm only

### Order information

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering units	Filling/case material	Options	
(63) 63 mm	GFS	(S) Socket and Tube 316L	(L) IP 66 /68	(04) 1/2" NPT (M) <sup>1)</sup>	(L) Lower	-1/ 0	kg/cm <sup>2</sup> (bar)	(=) No filling	(NH) SS wired tag	
(100) 100 mm				(P) Socket and Tube Monel <sup>1)</sup>	(B) Back	-1/ 0.6		(GV) Silicone	(SD) Special Dial	
				(D) Socket 316L, Tube Ni Span <sup>1)</sup>	(C) Center back <sup>2)</sup>	-1/ 1.5		(GR) Glycerin	(CS) Dual Scale	
				(H) Socket and Tube Hastelloy-C276 <sup>1)</sup>		-1/ 3		(GX) Halocarbon	(OF) Oil free	
				(I625) Socket and Tube Inconel 625 <sup>1)</sup>	(02) 1/4" NPT (M)			-1/ 9	(YW) SS316L Case	(SG) Safety glass
					(01) 1/8" NPT (M)			-1/ 15		(FX) Front panel
					(15) 1/2" BSP(M) <sup>1)</sup>			-1/ 24		(FW) Surface plate
					(14) 3/8" BSP(M) <sup>1)</sup>			0/ 1		(UF) U-clamp
					(13) 1/4" BSP(M)			0/ 1.6		(AT) ATEX listed <sup>3)</sup>
					(12) 1/8" BSP(M) <sup>2)</sup>			0/ 2.5		
					(16) M20x1.5(M) <sup>1)</sup>			0/ 4		
								0/ 6		
						0/ 10				
						0/ 16				
						0/ 25				
						0/ 40				
		0/ 60								
		0/ 100								
		0/ 160								
		0/ 250								
		0/ 400								
		0/ 600								
		0/ 1000								
		0/ 1600								
				Equivalent ranges in kPa, MPa, psi, bar and others units available						
					<b>Certificate</b>					
					(CD3) 3.1 Material Certi.					
					(CD5) NACE Certificate					

1) Not for 63mm 2) For 63 mm only 3) Not admissible with glass option (PD)

### How to order

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling/case material	Options	Certificate
63	GFS	S	L	02	L	0/16	BAR	=	NH	CD3

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