

# All stainless steel safety process gauges

## Model SFS

Nominal size: 100 mm (4"), 115 mm (4.5"), 150 mm (6")

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

Accuracy: Class 1 (1%)

### Features

- Solid front type construction
- Rugged stainless steel construction
- Measuring system stainless steel or Monel
- Socket and case welded
- Protection IP54, IP65 and IP66
- Usable to full scale
- Overload protection 130 %
- Dry, liquid filled
- Optional external Zero Adjustment



### Ranges

-30 in. Hg ... 0 psi up to 0 ... 36,000 psi

-1 ... 0 bar up to 0 ... 2500 bar & kg/cm<sup>2</sup>

-100 ... 0 kPa up to 0 ... 250,000 kPa

### Applications

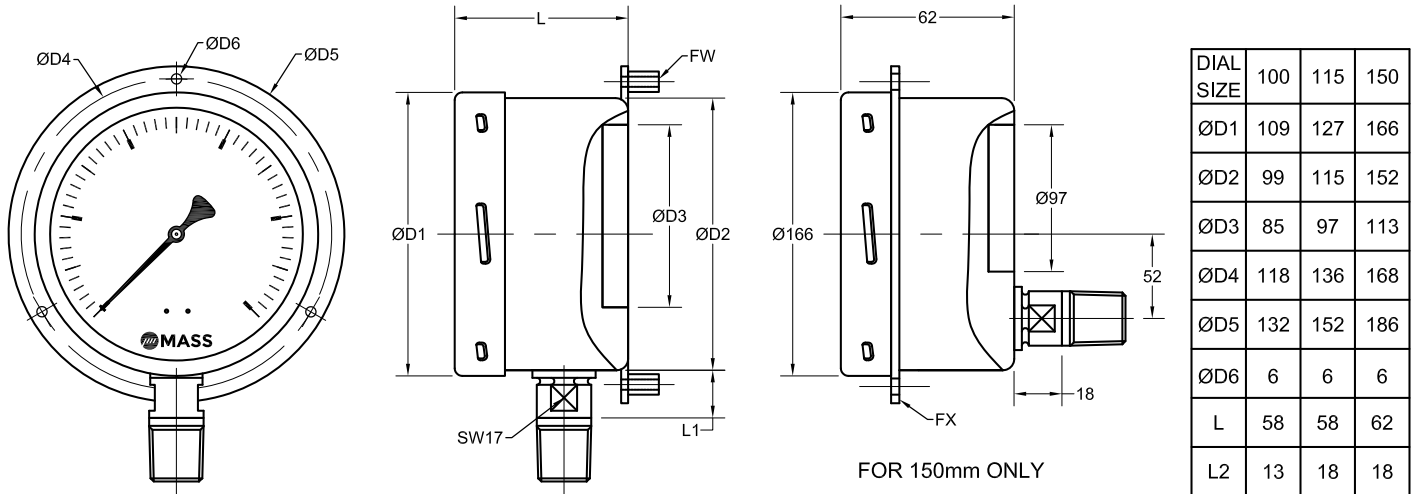
Chemical, petrochemical industry, petroleum refinery

Fertilizer, thermal & nuclear power generation industry

Machine and apparatus construction

Technical specification	SFS		
	100	115	150
Dial size in mm	100	115	150
Construction	Solid front safety pattern cylindrical case with blowout at the back		
Measuring principle	Bourdon tube		
Range in kg/cm <sup>2</sup> (or bar)	0.6 1 1.6 2.5 4 6 10 16 25 40 60 100 160 250 400 600 1,000 1,600 2,500 -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	1/4" 3/8" 1/2" BSP / NPT (M), M20x1.5 (M), Others on request		
Connection location	Lower, back(for 150 mm only)		
Material			
Pressure connection	Stainless steel 316, optional 316L, Monel		
Tube	Stainless steel 316, optional 316L, Monel, Ni Span		
Case/bayonet ring	Stainless steel 304, optional 316L		
Window	laminated safety glass		
Dial	Aluminum, black markings on white background		
Pointer	Aluminum, black optional - micrometer adjustment others on request		
Movement	Stainless steel 304		
Accuracy	Class 1 (1 % F.S.), optional 0,5 % 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 ... 60 °C (-40 ... 140 °F)		
Effect	Max. 0,3 % / 10 K		
Protection according	IP54 / IP65 / IP66		
Filling liquids	Glycerin, silicone, halocarbon, others on request		
Mounting	Standard stem, optional flush, surface		
Weight dry/filled in kg	0.63 / 1.02	0.76 / 1.65	1.14 / 2.08
Accessories, options	NACE compliance, diaphragm seals, valves, electric contacts, dampener, gauge saver, syphon etc		

### General dimensions in mm



### Order information

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering units	Filling/Case material	Options
(100) 100 mm	SFS	(S) Socket 316, Tube 316	(D) IP54 (L) IP65	(04) 1/2" NPT (M)	(L) Lower (B) Back <sup>2)</sup>	-1/ 0 -1/ 0.6 -1/ 1.5	kg/cm2 (bar)	(=) Standard no filling	(NH) Tagging wired
(115) 115mm		(L) Socket and Tube 316		(02) 1/4" NPT (M)		-1/ 3 -1/ 5 -1/ 9		(GV) Silicone <sup>1)</sup>	(DA) Dial Marking
(150) 150mm		(P) Socket and Tube Monel 316L		(15) 1/2" BSP (M)		-1/ 15 -1/ 24		(GR) Glycerin <sup>1)</sup>	(CS) Dual scale
		(D) Socket 316, Tube Ni Span		(14) 3/8" BSP(M)		0/ 0.6 0/ 1 0/ 1.6 0/ 2.5 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/ 1400 0/ 1600 0/ 2500		(GX) Halocarbon <sup>1)</sup>	(OF) Oil free
				(13) 1/4" BSP(M)				(YW) Case material 316L (1.4404)	(MP) Micrometer pointer
				(16) M20x1.5(M)				(EC) Contact type and function (see EC.1) <sup>1)</sup>	(EZ) External Zero adjustment <sup>3)</sup>
				Others on request					(FX) Front panel
									(FW) Surface plate
									(TU) Throttle screw
									(AJ) Calibration 0.5 % F.S. <sup>2)</sup>
									(AV) Anti-Vibration <sup>4)</sup>
									Others on request

1) Not for range 0.6 kg/cm<sup>2</sup> 2) For size 150mm and range up to 0/700 kg/cm<sup>2</sup> only options, Halocarbon filling not allowed & consult engineering. 3) For size 150mm & lower connection only 4) For pressure ranges ≥ 2.5 kg/cm<sup>2</sup> & available with limited

### How to order

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling/Case material	Option
100	SFS	S	L	04	L	0/16	KG/CM2	=	NH

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