

# All stainless steel safety process gauges

## Model SFS

According DIN EN 837-1

Nominal size 100 mm, 115 mm, 150 mm

Accuracy: Class 1(1%)

### Features

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

### Ranges

-1 ... 0 bar up to 0 ... 1400 kg/cm<sup>2</sup>

-30 in. Hg ... 0 psi up to 0 ... 20,000 psi

### Applications

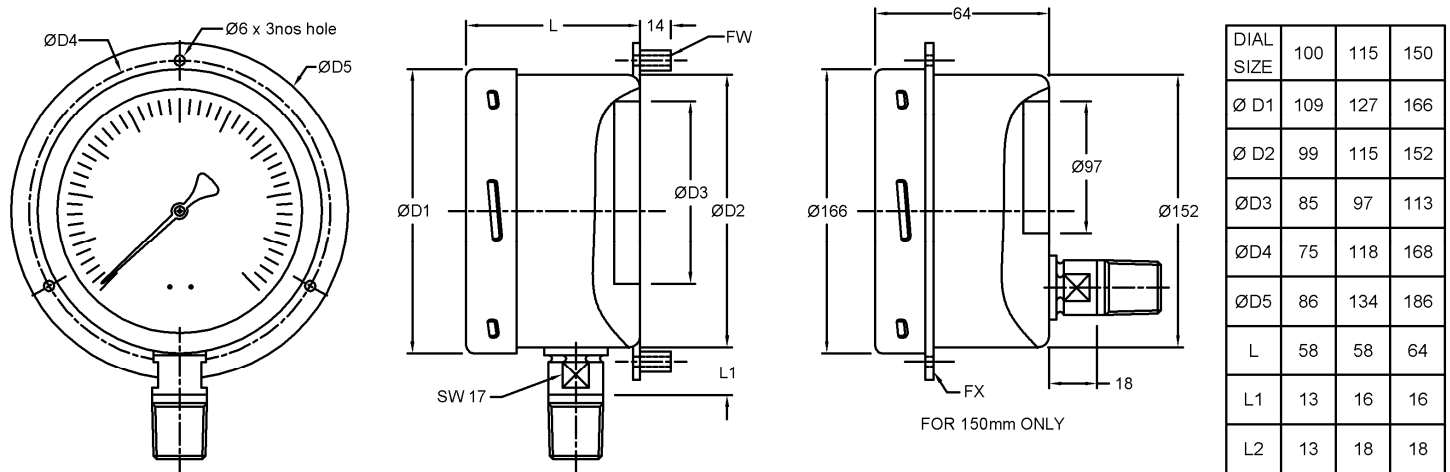
Chemical, petrochemical industry, petroleum refinery

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> | 0.6 1 1.6 2.5 4 6 10 16 25 40 60 100 160 250 400 600 1000 1400                      |     |     |  |
| Overpressure limit          | -1/0 -1/0.6 -0/1.5 -1/3 -1/5 -1/9 -1/15 -1/24                                       |     |     |  |
| Pressure type               | 130 % F.S., short time.                                                             |     |     |  |
| Process connection          | Gauge, vacuum and compound                                                          |     |     |  |
| Connection location         | 1/4" 3/8" 1/2" BSP / NPT (M) , M20x1.5 (M), Others on request                       |     |     |  |
| Material                    | Lower, back(for 150 mm only)                                                        |     |     |  |
| Pressure connection         | Stainless steel 316, optional 316L, Monel                                           |     |     |  |
| Tube                        | Stainless steel 316L optional Monel                                                 |     |     |  |
| 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         | -25 ... 60 °C                                                                       |     |     |  |
| Medium temperature          | Max. 200 °C (dry), max. 100 °C (for liquid filled)                                  |     |     |  |
| Storage temperature         | -40 ... 60 °C                                                                       |     |     |  |
| 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     |                                                                                     |     |     |  |
| Accessories, options        | NACE, 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)<br>100 mm | SFS  | (S) Socket 316, Tube 316L | (D) IP54<br>(L) IP65 | (04) 1/2" NPT (M)<br>(03) 3/8" NPT (M)<br>(02) 1/4" NPT (M)                     | (L) Lower<br>(B) Back <sup>2)</sup> | -1/ 0<br>-1/ 0.6<br>-1/ 1.5<br>-1/ 3<br>-1/ 5<br>-1/ 9<br>-1/ 15<br>-1/ 24<br>0/ 0.6<br>0/ 1<br>0/ 1.6<br>0/ 2.5<br>0/ 4<br>0/ 6<br>0/ 10<br>0/ 16<br>0/ 25<br>0/ 40<br>0/ 60<br>0/ 100<br>0/ 160<br>0/ 250<br>0/ 400<br>0/ 600<br>0/ 1000<br>0/ 1400 | (kg/cm <sup>2</sup> )   | (=) Standard no filling<br>(GV) Silicone <sup>1)</sup><br>(GR) Glycerin <sup>1)</sup><br>(GX) Halocar-bon <sup>1)</sup><br>(YW) Case material 316L (1.4404)<br>(EC) Contact type and function (see EC.1) <sup>1)</sup> | (NH) Tagging wired<br>(DA) Dial Marking<br>(CS) Dual scale<br>(OF) Oil free<br>(MP) Micrometer pointer<br>(FX) Front panel<br>(FW) Surface plate<br>(TU) Throttle screw<br>(AJ) Calibration 0.5 % F.S. <sup>2)</sup><br>(PR) Receiver gauge |
| (115)<br>115mm  |      | (L) Socket and Tube 316L  |                      | (15) 1/2" BSP (M)<br>(14) 3/8" BSP (M)<br>(13) 1/4" BSP (M)<br>(16) M20x1.5 (M) |                                     |                                                                                                                                                                                                                                                       |                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                             |
| (150)<br>150mm  |      | (P) Socket and Tube Monel |                      |                                                                                 |                                     |                                                                                                                                                                                                                                                       |                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                             |
|                 |      |                           |                      | Others on request                                                               |                                     |                                                                                                                                                                                                                                                       | psi & others on request |                                                                                                                                                                                                                        | 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

## 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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