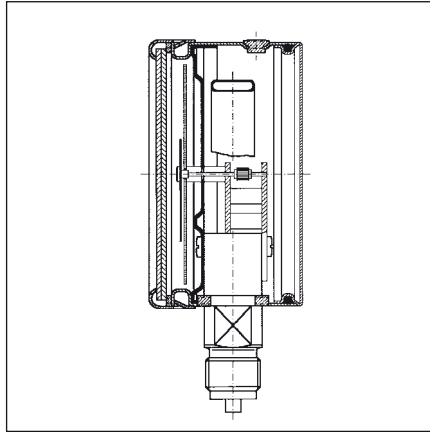
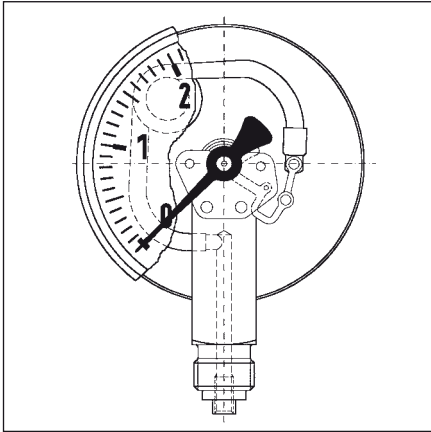


# Bourdon tube pressure gauges for high pressures EN 837-1



## Application

For measurement of extremely high pressures in corrosive, gaseous and liquid media which are not highly viscous and do not crystallize. Suitable for use in corrosive atmospheres.

## Type

D 4

## Nominal size

160

## Accuracy class (EN 837-1/6)

1.0

## Ranges

0/2,500 bar

0/4,000 bar

## Application area

Static load:

full scale value

Dynamic load:

$\frac{3}{4}$  x full scale value

## Operating temperature range

Medium:  $T_{max} = +100\text{ }^{\circ}\text{C}$

Ambient:  $T_{min} = -20\text{ }^{\circ}\text{C}$

$T_{max} = +60\text{ }^{\circ}\text{C}$

## Temperature performance

Indication error when the temperature of the measuring element deviates from  $20\text{ }^{\circ}\text{C}$ :

rising temp. approx.  $\pm 0.4\text{ } \%/10\text{ K}$

falling temp. approx.  $\pm 0.4\text{ } \%/10\text{ K}$   
percentage of full scale value

## Protection

IP 54 (EN 60529)

## Standard version

### Connection

Stainless steel 316 Ti or 316 L, bottom

HP connection for  $\frac{1}{4}$ " pipe

Female thread M 16 x 1.5

or 9/16-18 UNF

each with sealing cone  $60^{\circ}$

### Measuring element

Bourdon tube element, NiFe alloy

helical tube

### Movement

Stainless steel

### Dial

Aluminium, white

Dial marking black

## Pointer

Aluminium, black

## Housing

Stainless steel 304

with solid baffle wall and blow-out

## Bayonet type bezel

Stainless steel 304

## Front glass

Laminated safety glass

## Mounting

Wall mounting instrument bracket with 60 mm protrusion (included in scope of delivery) or panel mounting using 3-hole fixing, panel mounting bezel (option).

Direct mounting onto rigid measuring pipe possible.

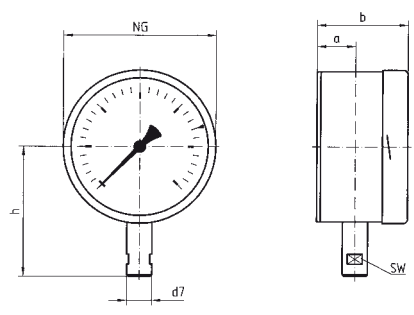
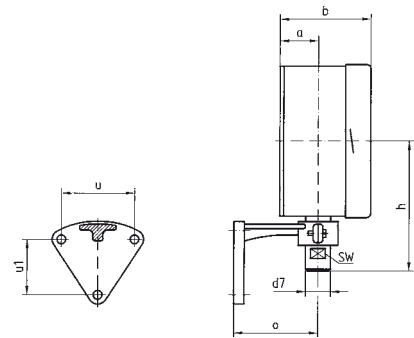
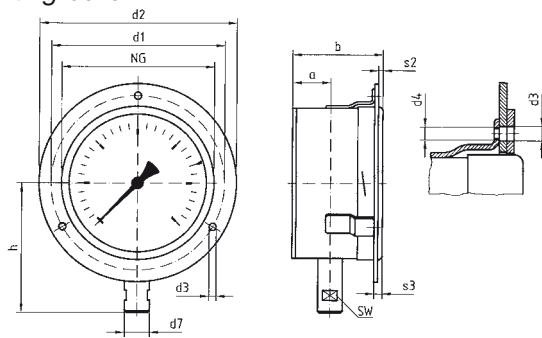
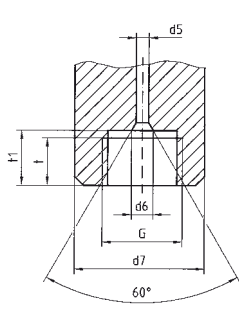
## Options

- Nominal size 100
- Glycerine filling (type D802)
- 3-hole fixing, panel mounting bezel
- Other connections
- Electrical contacts

# Bourdon tube pressure gauges for high pressures

## Type D 4 – NG 160

### Housing types and dimensions

<p><i>Bottom connection</i></p> 	<p><i>Bottom connection, with instrument holder</i></p> 
<p><i>Bottom connection, 3-hole fixing, panel mounting bezel</i></p> 	<p><i>HP connection, female thread M 16 x 1.5</i></p> 

### Dimensions (mm)

Nominal size (NG)	a	a <sub>1</sub>	b	b <sub>1</sub>	d <sub>1</sub> *	d <sub>2</sub>	d <sub>3</sub> *	d <sub>4</sub>	d <sub>5</sub>	d <sub>6</sub>	d <sub>7</sub>	G	h	o	s	s <sub>1</sub>	s <sub>2</sub>	s <sub>3</sub>	t	t <sub>1</sub>	u	
160	34	64	78	108	178	196	5.8	M 5	2.5	4.3	26	<sup>M</sup> <sub>16x1.5</sub> HP	139	63	22	32	7	9	9.5	11	65	
Nominal size (NG)	u <sub>1</sub>	SW																				
160	56	22																				

\* Dimensions according to DIN 16064