



## Diaphragm pressure gauges for chemical applications PF100Ch

Part no. 85906402

Diaphragm pressure gauges for chemical applications  
Type D4

### benefits

- for low pressure ranges
- high overload protection
- high resistance
- optional flange connections

### Application

For corrosive gaseous and liquid media, also for use in corrosive environments. With open connection flange also suitable for viscous and polluted media. For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2" (see appendix)!

### Technical Specifications

**Type**  
D4

**Nominal size**  
100

**accuracy class (EN 837-3/6)**  
1.6

**ranges (EN 837-3/5)**  
see ordering table

**application area**  
static load: Full scale value  
dynamic load: 0.9 x full scale value

**Overpressure safety**  
≤ 6 bar  
at least 5 x FS

### Operating temperature range

Medium: max. 100 °C  
Ambient: -20/+60 °C

### Temperature performance

Indication error when the temperature of the measuring system deviates from the normal temperature of 20 °C:  
at rising temperature approx. ± 0.8 %/10 K  
falling temperature approx. ± 0.8 %/10 K  
of full scale value

### Degree of protection

IP 54 (EN 60529)

### Connection

stainless steel 316 Ti/316 L, bottom  
G½B, SW22 (EN 837-3/7.3)

### lower measuring flange

Stainless steel 316 L

**upper measuring flange**  
Stainless steel 304

**Measuring element**  
diaphragm  
Measuring flange  
Duratherm

**Seal**  
FPM (Viton)

**movement**  
Stainless steel

**Dial**  
Aluminium, white  
Scaling: black

**Pointer**  
Aluminium, black

**Housing**  
Stainless steel 304, with blow-out

**bayonet bezel**  
Stainless steel 304

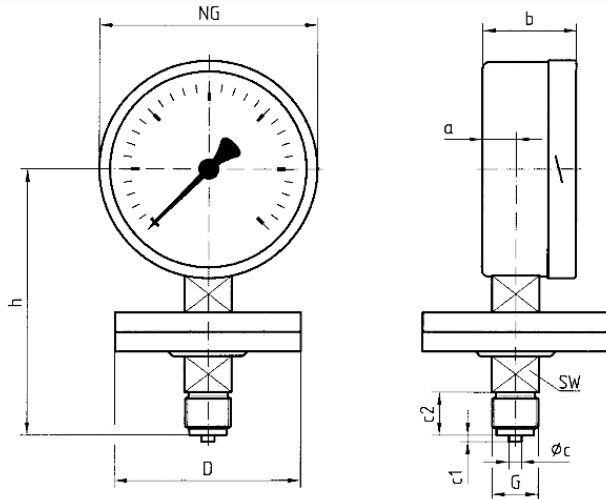
**window**  
Laminated safety glass

## Options

- Safety housing
- Overpressure safety 10 x FSD (measuring flange  $\varnothing$  100 to max. 40 bar, measuring flange  $\varnothing$  160 to max. 2.5 bar)
- Glycerine filling ( $\geq 40$  mbar,  $\leq 250$  mbar accuracy class 2.5)
- Electrical contacts
- wetted parts with special coating
- open connection flanges as per EN/ASME

## Technical Drawings

**bottom connection, measuring flange  $\varnothing$  100**



**Dimensions (mm)**

| NG  | a  | b  | $\varnothing c$ | c1 | c2 | D   | G                 | h   | SW |
|-----|----|----|-----------------|----|----|-----|-------------------|-----|----|
| 100 | 20 | 55 | 6               | 3  | 20 | 100 | G $\frac{1}{2}$ B | 127 | 22 |

Versions

| Range      | Mounting type | Type            |                                                                                     | Part number |
|------------|---------------|-----------------|-------------------------------------------------------------------------------------|-------------|
| 0/100 mbar | direct        | PF100Ch<br>D402 |  | 85906402    |

-  in-stock items
-  Non-stock items