

# Diaphragm Pressure Gauges with Vertical Diaphragm

Accuracy 1.6 % f.s.  
Case Ø 60 (2.36")

Model  
**PSP**

## Application

Technical details of pressure gauges model PsP and information about applications can be found on general information leaflet 4000.

## Case Size

60 (2.36")

## Accuracy Class (EN 837-3)

1.6 (i.e. accuracy error less than  $\pm 1.6\%$  of full scale value);  
4 for gauges with protection foil covering the diaphragm

## Pressure Ranges (EN 837-3)

0 ... 0.6 bar (10 psi) to 0 ... 40 bar (600 psi) also standard vacuum and compound ranges, see table overleaf;  
please compare limitations mentioned below ("material wetted parts")

## Pressure Limitations

Steady pressure / maximum: full scale value  
Cyclic pressure: 90% of full scale value

## Temperature Limitations

Ambient temperature : -20 / +50°C (-4 / +122 °F)  
Medium temperature: max. +50°C (122 °F)

## Temperature Caused Error

The accuracy error caused by media or ambient temperatures differing from +20 °C (+68 °F) is significant. In accordance with EN 837-3 it may be up to .8 % f.s. per each 10 °C (18°F).

## Protection Type (EN 60529 / IEC 529)

IP 43

## Standard Configuration

### Connection

¼" BSP bottom connection or center back connection (rm)

### Material Wetted Parts

Ordering code -1: Bottom connection:  
Connection brass, lower half gray cast iron,  
diaphragm carbon steel  
Center back connection:  
Connection and lower half carbon steel zinc plated,  
diaphragm carbon steel

Ordering code -2: Connection and lower half carbon steel, partly black painted, with 5 mm inlet port orifice,  
diaphragm carbon steel with Ag-foil, vacuum tight,  
suitable for use on chlorine metering systems <sup>1)</sup>,  
pressure ranges: -1200/0 mbar,  
-1/0 bar (30" vac.) or  
0/16 bar (0/200 psi),  
accuracy class 4

Ordering code -3: Connection and lower half 316 stainless steel (1.4571), diaphragm carbon steel with protection foil 316 stainless steel (1.4571), pressure ranges  $\geq 0/1$  bar ( $\geq 15$  psi), accuracy class 4

### Movement

Brass/German silver

### Dial

Aluminum alloy, black figures, white background

### Pointer

Aluminum alloy black

### Case

Bezel ring, black painted, screwed-on to the vertical mounted lower half

### Lens

Single strength glass lens

<sup>1)</sup> version Cl<sub>2</sub> for chlorine-metering systems; please also notice our data sheet 4310, model PsPK 63-2!



## Optional Special Configurations

- Connection thread ¼" NPT, M 12x1.5 (others upon request; version -1 rm with brass connection)
- Movement stainless steel (wear- and corrosion-resistant)
- Inlet port restrictor screw brass or stainless steel
- Acrylic glass lens
- Special scales, such as dual-ranges or retarded scales
- Overrange protection available up to 3-times full scale pressure [max. 50 bar (730 psi)]
- Version -3 for NH<sub>3</sub>, completely free of nonferrous heavy metal
- Diaphragm with protection foil 316 stainless steel (1.4571), PTFE, or others
- Splash proofed version (sealed front and backside)
- Other than vertical installation
- Top or side connection
- Backsided flush connection ¼" BSP (available for PsP 60-3 with bottom process connection only)
- Nominal sizes 80 (3") or 100 (4") upon request

## How to Order:

Please specify:

Model code: **PsP 60**  
Wetted parts: **- 1, - 2 or - 3** (please compare left)  
Case configuration: **rm, rmFr**  
(see reverse side) (standard case = bottom connection = without code letter to add)  
Pressure range: according to EN 837-3, e.g. **0/6 bar**  
Process connection: **¼" BSP** (= standard) or **¼" NPT**  
Special configurations: (see above)

### Examples for Ordering Information:

- PsP 60-1, rmFr, 6 bar, ¼" BSP
- PsP 60-2, -1/0 bar, ¼" NPT (for Cl<sub>2</sub>)



**ARMATURENBAU GmbH**  
Manometerstraße 5 • D-46487 Wesel - Ginderich  
Phone: (0 28 03) 91 30-0 • Fax: (0 28 03) 10 35  
armaturenbau.com • mail@armaturenbau.com



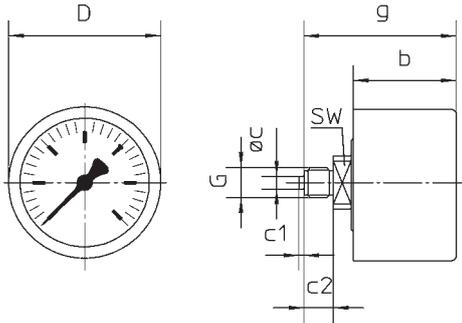
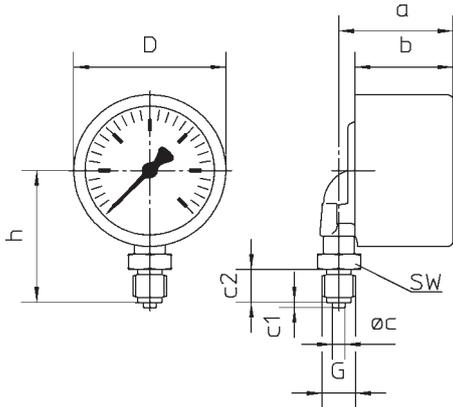
Subsidiary Company and Sales East Germany and Eastern Europe  
**MANOTHERM Beierfeld GmbH**  
Am Gewerbepark 9 • D-08340 Beierfeld  
Phone: (0 37 74) 58 - 0 • Fax: (0 37 74) 58 - 545  
manotherm.com • mail@manotherm.com

**4100**  
5/04

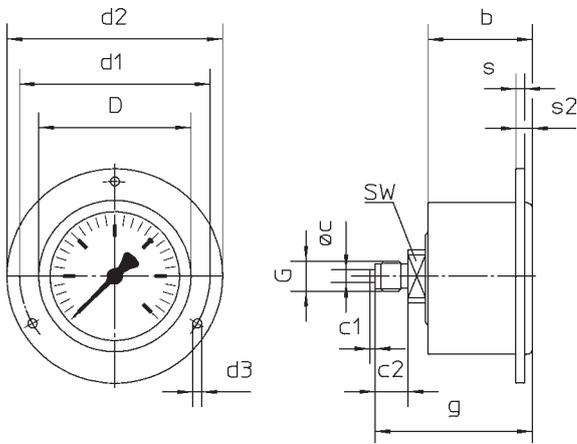
# Case Configurations, Code Letters, Dimensional Data and Weight

Bottom connection,  
no additional code letters

Center back connection,  
code letters: **rm**



Center back connection with front flange,  
code letters: **rmFr**



## Dimensional Data ( mm / inches ) and Weight ( kg / lb )

Ø D (= Case Size)	a	b	c	c1	c2	d1	d2	d3	g <sup>1)</sup>	G	h ±1	s	s2	SW	Weight (approx.)
60 2.36	47 1.85	41 1.61	5 .20	2 .08	13 .51	75 2.95	85 3.45	3.6 .14	62 2.44	G ¼B ¼" BSP	52 2.05	3 .12	6 .24	17 .67	0.300 .662

<sup>1)</sup> for version -1 only valid if with G ¼ B (¼" BSP); for other connection threads (¼" NPT, M 12 x 1.5) add approx. 10 mm (.39") to dimension g!

## Pressure Ranges / Graduations of the Scale:

Pressure Range bar	Subdivision bar	Pressure Range psi	Subdivision psi
- 0.6 / 0 - 1 / 0 - 1200 / 0 mbar	0.01 0.02 20 mbar	30" vac.	.5" vac.
- 1 / + 0.6 - 1 / + 1.5 - 1 / + 3 - 1 / + 5 - 1 / + 9 - 1 / +15 - 1 / +24	0.05 0.1 0.2 0.2 0.2 0.5 1.0	30" vac./ 15 30" vac./ 30 30" vac./ 60 30" vac./100 30" vac./160 30" vac./200 30" vac./300	1" vac./ .5 1" vac./ .5 2" vac./ 2 5" vac./ 2 5" vac./ 2 5" vac./ 5 10" vac./ 5
0.6 1.0 1.6 2.5 4 6 10 16 25 40	0.02 0.02 0.05 0.1 0.2 0.2 0.2 0.5 1.0 2.0	15 30 60 100 160 200 300 400 600	.25 .5 1 1 2 2 5 5 20

The information in this leaflet is given in good faith, but we reserve the right to make changes without notice.