# Differential pressure gauges with Bourdon tube, with parallel-plug 

with measuring system stainless steel, with / without filling

Nominal size ND 80, 100
Connection position bottom, radial or back, centric


## Description

The differential pressure gauges can be used with liquid, gaseous, aggressive, non-viscous and non-crystallizing media, even in aggressive environments.
Their task consists of measuring differential pressures or two different gauge pressures, such as in refrigeration engineering.

Moreover, a simultaneous measurement of steam pressure and the resulting steam temperature are possible.

Two independent indicating Bourdon tube measuring systems work In a stable stainless steel case.

Both pointers turn around the same axle and give + and pressure separately.

The pointer of the low-pressure side has the shape of a dial. On this dial the pressure difference can be read directly up to $50 \%$ of the measuring range. In addition, the two individual pressures are also directly readable.

The differential pressures are equipped with a moving dial.

In caseof dynamic pressure loads and vibrations, a good damping is achieved with a liquid filling.

## Features

o High reliability and long service life
o Measuring system in compact design
o Static pressure indicated for both sides
o Differential pressure given on inner dial
o Without and with filling possible

- Combined pressure- and temperature scales as 2 -fold, 3 -fold or 4 -fold - scales for all common refrigerants
o Accuracy class 1.6
o Measuring system stainless steel
o Spezification optional with double indicator
o Dual scale bar / mWS


## Ranges

0 ... 1.0 bar bis 0 ... 60 bar

## Applications

refrigeration engineering
cooler, condenser and compressors
house engineering

Technical data

| Models | P2625 |  |  |  | Optionen |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nominal size | 80 |  | 100 |  |  |
| Type |  |  |  |  |  |
| Measuring system | Two independently indicating Bourdon tube measuring systems, parallel-plug |  |  |  |  |
| Accuracy class | 1.6 to EN 837-1 |  |  |  |  |
| Ranges | $\begin{aligned} & \hline 0 \ldots 1.0 \text { bar to } 0 \ldots 60 \mathrm{bar} \\ & -\ldots \ldots 0 \ldots+12 \mathrm{bar} \\ & -1 \ldots 0 \ldots+30 \mathrm{bar} \\ & -\ldots . \ldots+15 \mathrm{bar} \\ & -1 \ldots 0 \ldots+16 \mathrm{bar} \\ & -1 \ldots . \ldots+35 \mathrm{bar} \\ & -1 \ldots 0 . \ldots+25 \mathrm{bar} \\ & \text { negative or positive or negative and positive gauge pressure } \\ & \text { In order to ensure a good readability, the differential pressure should be no } \\ & \text { less than } 1 / 6 \text { of the full scale value. } \\ & \hline \end{aligned}$ |  |  |  | Other ranges on request |
| Application | Constant load : up to full scale value <br> Alternating load :up to $0.9 \times$ full scale value <br> shortly $: 1.3 \times$ overloadable |  |  |  |  |
| Case | Stainless steel |  |  |  | surface mounting flange, front or back, panel mounting clamp for panel mounting |
| Liquid filling | Without |  |  |  | Glycerine 99,7\% |
| Bezel | Crimp ring, stainless steel polished |  |  |  | BR P2625: <br> square front frame $88 \times 88 \mathrm{~mm}$ |
| Window | Polycarbonat |  |  |  |  |
| Dial | Al. white, scale and printing black |  |  |  | Type with dual scale bar/mWS |
| Pointer | Differential pressure: <br> +) Standard poiner: <br> Aluminium, black with moving dial <br> -) Pointer scale: <br> Aluminium, white scaled $\pm 50 \%$ of main scale range as + and - differential pressure display <br> Double pressure: <br> +) Standard poiner: <br> Aluminium, black <br> -) Pointer scale: <br> Aluminium, white scaled $\pm 50 \%$ of main scale range as + and - differential pressure display |  |  |  | Design with duplex: mark pointer |
| Movement | Copper alloy, wear parts argentan |  |  |  |  |
| Measuring element | Stainless steel, welded |  |  |  |  |
| Connection -position -thread | Stainless steel <br> Bottom radial, parallel connected <br> $2 \times$ G3/8B, SW 19 <br> positiv-connection front, negativ-connection back <br> (with $\oplus$ and $\Theta$ marked) |  |  |  | Connection position back <br> $2 \times$ G1/4B, 7/16-20UNF , (1/4 Flare), <br> M12x1.5 for 6 mm <br> $2 \times \mathrm{G1} 1 / 2 \mathrm{~B}$ (only possible by model P2625 back!) <br> Other connections on request |
| Temperatures - medium: - ambient: | $\begin{aligned} & \text { Tmax. }+100^{\circ} \mathrm{C} \\ & 0^{\circ} \mathrm{C} \ldots+60^{\circ} \mathrm{C} \\ & \hline \end{aligned}$ |  |  |  |  |
| Temperature drift | A deviation from normal temperature $+20^{\circ} \mathrm{C}$ at the measurement system: max. $\pm 0.4 \% / 10 \mathrm{~K}$ on the respective scale value |  |  |  |  |
| Protection | IP 65 acc. to EN 60529 / IEC 529 |  |  |  | IP 66 (only by filling case) |

If ordering, please provide both pressures: a) maximum gauge pressure
b) differential pressure

## Dimensions



P2625 / P2626


P2626
Connection thread: $\oplus$ : Pointer above
Connection thread: $\Theta$ : Pointer below with indicating dial

| Model | dimension in mm |  |  |  |  |  |  |  |  |  |  |  | weight in kg |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ND | Connection - position | a | b | d | D | G | $\mathrm{h} \pm 1$ | x | y | z | SW |  |
| P2625 | 80 | radial | 15 | 64.5 | 78 | 86 | G 3/8 B | 71 | 23 | --- | --- | 19 | 0.49 |
|  |  | back | --- | 64.5 | 78 | 86 | G 3/8 B | 99 | 43.5 | --- | --- | 19 | 0.53 |
| P2626 | 100 | radial | 16 | 74 | 99.5 | 107 | G 3/8 B | 83 | 26.5 | --- | --- | 19 | 0.65 |
|  |  | back | --- | 74 | 99.5 | 107 | G 3/8 B | 109 | 26 | 18.5 | 10 | 19 | 0.71 |

## Dimensions



P2626

Connection thread: $\oplus$ : Pointer above
Connection thread: $\Theta$ : Pointer below with indicating dial

| Model | dimension in mm |  |  |  |  |  |  |  |  |  |  |  | weight in kg |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ND | Connection - position | a | b | d | D | G | $\mathrm{h} \pm 1$ | x | y | z | SW |  |
| P2625 | 80 | radial | 15 | 64.5 | 78 | 86 | G 3/8 B | 71 | 23 | --- | --- | 19 | 0.49 |
|  |  | back | --- | 64.5 | 78 | 86 | G 3/8 B | 99 | 43.5 | --- | --- | 19 | 0.53 |
| P2626 | 100 | radial | 16 | 74 | 99.5 | 107 | G 3/8 B | 83 | 26.5 | --- | --- | 19 | 0.65 |
|  |  | back | --- | 74 | 99.5 | 107 | G 3/8 B | 109 | 26 | 18.5 | 10 | 19 | 0.71 |

Ordering designations:

1. Model
2. Measuring range
3. Options
