Pressure gauge with spiral tube
Model 116.15, back mount
Direct drive version

Applications
- For measuring static pressures in dry gaseous media that will not attack copper alloy parts
- Indication of cylinder charging pressure
- Welding engineering
- Medical engineering

Special features
- Compact and robust design
- Good vibration resistance
- Nominal size 36 and 41
- Ingress protection IP 65
- Pressure relief (front)

Description
The model 116.15 is a direct drive pressure gauge. This means that there is no movement needed for the transmission of the tube deflection to the pointer. With this, on the one hand, the vibration resistance of the model is increased and on the other it enables a particularly flat design form. In addition, the model 116.15 offers the security feature of having a pressure relief and IP 65 ingress protection.

Application areas
This pressure gauge is particularly suited for the operating conditions of pressure controllers and pressure valves on fixed and portable gas cylinders.

Individual customer variants
WIKA offers its customers the joint development of tailored designs. This includes a full integration solution of the pressure measuring system into the customer’s unit.
Standard version

Nominal size in mm
36, 41

Accuracy class
4.0
(including non-linearity, hysteresis, zero offset and end value deviation)

Scale ranges
0 ... 185 bar
0 ... 200 bar
0 ... 250 bar
0 ... 315 bar
0 ... 400 bar
0 ... 450 bar

Pressure limitation
Steady: 3/4 x full scale value
Short time: Full scale value

Permissible temperature
Ambient: -20 ... +60 °C
Medium: -20 ... +60 °C
Storage: -40 ... +70 °C

Temperature effect
When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. ±0.4 %/10 K of the span

Ingress protection
IP 65 per EN 60529 / IEC 60529

Process connection
Copper alloy,
centre back mount (CBM)
G 1/8 B (male), 12 mm flats

Pressure element
Copper alloy (CuBe2), spiral form

Dial
Plastic, white, black lettering,
indication angle 120° ±15°

Pointer
Copper alloy, black

Case
Stainless steel

Window
Polycarbonate, clear

Options

- Other process connection (e.g. male G 1/8 B, G 1/4 B, 1/8 NPT or plug connection)
- Restrictor
- Protective rubber cap on process connection
- Changed indication angle
- Other scale ranges
- Accuracy class 2.5
- Special window (for possible use with aggressive media)
Dimensions in mm

Standard version

Centre back mount (CBM)

<table>
<thead>
<tr>
<th>NS</th>
<th>Dimensions in mm</th>
<th>Weight in kg</th>
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<tbody>
<tr>
<td></td>
<td>b₁ ±0.5</td>
<td>b₂ ±1</td>
</tr>
<tr>
<td>36</td>
<td>11</td>
<td>27</td>
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<tr>
<td>41</td>
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<td>27</td>
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Process connection per EN 837-1 / 7.3

Ordering information
Model / Nominal size / Scale range / Connection size / Options