Pressure gauge with helical tube
DirectDrive version
Models 116.18.036, 116.18.041

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

- Good vibration and shock resistance
- Compact and robust design
- Increased number of load cycles due to helical tube

Description

The model 116.18 is a DirectDrive pressure gauge, which does not require a movement for the transmission of the tube deflection to the pointer. This measuring principle leads to a good vibration and shock resistance. The helical tube enables an increased number of load cycles. In addition, the model 116.18 offers the security feature of having a pressure relief and IP 65 ingress protection.

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

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

Scale ranges
0 ... 40 bar,
0 ... 200 bar,
0 ... 315 bar or
0 ... 400 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

Process connection
Copper alloy,
centre back mount (CBM)
G 1/4 B

Pressure element
Copper alloy, helical form

Case
Stainless steel

Dial
Plastic, white, black lettering, coloured segments to customer requirements, indication angle 120 ° ±15 °

Window
Polycarbonate

Pointer
No separate pointer available; pointer is represented by tube end

Ingress protection
IP 65 per EN 60529 / IEC 60529

Options
- Other process connection
- Restrictor
- Accuracy class 2.5
- Other indication angles
- Phosphorescent dial

Dimensions in mm

Standard version

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

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