

Differential pressure gauge

Art. No. 5429.10 - Ident No. 101601

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Differential Pressure Gauges

With Bourdon Tube • Model 716.01.2121

Pressure Gauges

- Time-tested measuring system technology (bourdon tube).
- · Screw ring (instead of conventional bezel ring) permits
- removal of dirt deposits inside the case
- cleaning inside of window on site
- dismantling for repair and servicing.
- Restrictor screw in pressure input channel of measuring system for suppressing and smoothing pressure peaks and thus reducing inadmissible overpressure loading on plus side.
- Radial pressure connection for automatic condensation draining through pressure input channel at lowest point on case.
- Good price/performance ratio, preferential use by OEM customers.



Monitoring the degree of pollution in medium-sized compressed air filters.

Nominal size

70, 80 mm

Accuracy class

1,6

Scale ranges

0 ... 0.6 to 0 ... 16 bar or equivalent other units of pressure or vacuum. Standard ranges per EN 837

Working pressure

Steady: full scale value Fluctuating: 0,9 x full scale value

Static pressure rating

16 bar

Operating temperature

Ambient: -20 ... +60 °C Medium: +60 °C maximum

Temperature error

Additional error when temperature of the pressure element

derivates from +20 °C

Rising temperature: +0,3 %/10 K of true scale value Falling temperature: -0,3 %/10 K of true scale value

Degree of protection

IP 66 per EN 60 529 / IEC 529

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Standard features

Pressure connection (exposed to pressure medium)
Connecting-flange geometry according to drawings overleaf

Case and screw ring (exposed to pressure medium)

Black aluminiumPressure element (exposed to pressure medium) Bourdon tube, Cu alloy

Sealing rings (exposed to pressure medium)

NBR (Buna rubber)

Restrictor screw (exposed to pressure medium)

Bore 0.2 mm, Cu alloy in pressure connection channel of bourdon tube system

Movement (exposed to pressure medium)

Cu alloy

Dial (exposed to pressure medium)

aluminium, multicoloured scales (customized)

Pointer (exposed to pressure medium)

White aluminium

Stop pin (exposed to pressure medium)

Brass, nickel-plated at 6 o'clock

Window (exposed to pressure medium)

80 mm: pressed hard glass per DIN 8902

70 mm: acrylic plastic

Suspended particle filter (exposed to pressure medium)

White felt: 8,5 mm dia. x 8 mm thick

Optional extras

- Static pressure rating > 16 bar
- Customized connection geometry

edition 05/2008 Subject technical changes.

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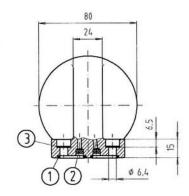
Operating principle

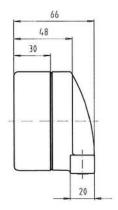
- Case machined of solid aluminium bar retains bourdon tube pressure element.
 High pressure ⊕ retained in bourdon tube
 High pressure ⊖ retained in case
- Any pressure differential across high pressure and low pressure side will deflect the bourdon tube pressure element.
- The deflection will be indicated on a graduaded dial scale.

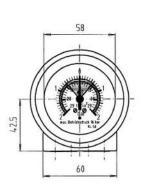
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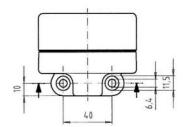
Dimensions

Nominal size 80 mm



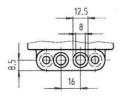




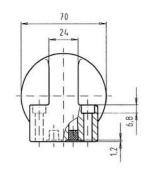


- ① O-ring 15 x 2 mm dia. NBR
- ② Filter (felt) 6,5 x 3 mm dia.
- 3 USIT seal 6,7 x 11 mm dia. x 1 mm, NBR

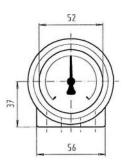
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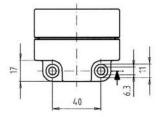


Nominal size 70 mm









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Ordering information

State

Model / Nominal size / Scale range / Maximum operating pressure (static pressure) / Connection size / Connection position / Optional extras required

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.