



## Standard Bourdon tube pressure gauges RF63 MK1

**Part no. 87416302**

**Bourdon tube pressure gauge with electrical contacts type D3**

### benefits

- up to two contacts possible
- wetted parts and movement made of stainless steel
- available with MK, EK, IK
- Safety housing S2 as per EN 837-1 (blow-out)

### Application

For corrosive gaseous and liquid media which are not highly viscous and do not crystallise. For measuring in areas with limited space. Especially suitable for monitoring minimum pressure in gas cylinders together with AFRISO alarm unit for low gas level.

### Technical Specifications

**Type**  
D3

**Nominal size**  
63

**accuracy class (EN 837-1/6)**  
1.6

**ranges (EN 837-1/5)**  
see ordering table

**application area**  
static load:  $\frac{3}{4}$  x full scale value  
dynamic load:  $\frac{2}{3}$  x full scale value  
short-term: Full scale value

**contact types**  
Magnetic spring contact (MK)

### standard version

**Connection**  
stainless steel 316 Ti/316 L, bottom  
G $\frac{1}{4}$ B, SW14 (EN 837-1/7.3)

**minimum range**  
MK Single  
1.6 bar

**Operating temperature range**  
Medium: max. 150 °C  
Ambient: -20/+60 °C

**Temperature performance**  
Indication error when the temperature of the measuring system deviates from the normal temperature of 20 °C:  
at rising temperature approx.  $\pm 0.4$  %/10 K  
falling temperature approx.  $\pm 0.4$  %/10 K  
of full scale value

**Degree of protection**  
IP 42 (EN 60529)

**Electrical connection**  
Cable gland M12 x 1.5  
Cable 1 m

**Measuring element**

Bourdon tube, stainless steel 316 Ti/316 L  
 $\leq 60$  bar: "C" type tube  
 $> 60$  bar: helical tube

**movement**

Stainless steel

**Dial**

Aluminium, white  
Scaling: black

**Magnetic spring contact (MK)**
**Supply voltage**

max. AC/DC 250 V

**Making current and breaking current**

max. 1 A

**Continuous current**

max. 0.6 A

**Switch rating**

max. 50 VA, max. 30 W

**Options**

- wetted parts oil-free and grease-free ( $\leq 0/400$  bar)
- Ultra-pure gas version
- back flange
- throttle screw
- special scales
- other process connections

**Pointer**

Aluminium, black

**Housing**

Stainless steel 304, safety housing S2 as per EN 837-1, with rear blow-out

**push on bezel**

Stainless steel 304

**window**

Plastic (Makrolon), with contact adjustment lock

**Contact**

Ag80 Ni20 Au 10  $\mu$ m

**Switching accuracy**

approx. 2–5 % of full scale value

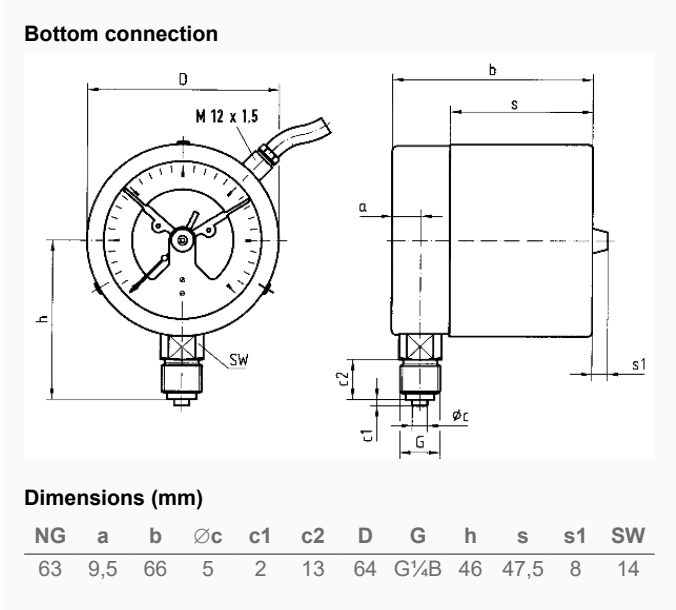
**Operating temperature range**

-20/+70 °C or corresponding to the respective measuring instruments

**Adjustment range**

5–95 % measuring range of gauge

Technical Drawings



Versions

| Range    | Mounting type | Type             | Part number |
|----------|---------------|------------------|-------------|
| 0/16 bar | direct        | RF63 MK1<br>D302 | 87416302    |

- in-stock items
- Non-stock items