





Relative and differential pressure switch

Туре 630

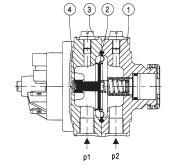
Differential pressure, vacuum and overpressure switches of type series 630 are suitable for monitoring neutral and slightly aggressive liquids and gases. Switching element isolated from medium. Ideal for use as flow monitor in sanitary piping/ heating installations or for level monitoring in general in process technology applications. Extremely rugged construction with high functionality due to10/20 bar safety margin in both pressure chambres.

Pressure range 6 ... 5500 mbar

- + High overpressure safety margin at both connections (P1 + P2) up to 10/20 bar
- + Funcionally simple, rugged mechanics with high operating reliability
- + Also for slightly aggressive liquids and gases
- + Specially economical version with switching points adjusted in the factory
- Repeatability up to < ± 0.4 mbar

| ressure range | | |
|---|---|--|
| elative und differential | | 6 5500 mbar |
| perating conditions | | |
| edium | | Liquids and neutral gases |
| | NBR-based | 0 +80 °C |
| | FPM | -10 +80 °C |
| emperature | EPDM | -10 +80 °C |
| | <u>Q</u> (Silicone) Ambient | -40 +80 °C +65 °C |
| | Storage | -40 +80 °C |
| | < 200 mbar | 10 bar |
| lerable overload and max. tolerable system pressure (P1 > P2 | 2) - 200 mbar | 20 bar |
| ipture pressure | | 30 bar |
| west turn-on pressure | | ≥6 mbar |
| nallest switching difference | | ≥3 mbar |
| terials in contact with the medium | | |
| | | NBR based |
| | | EPDM |
| aphragm | | FPM |
| | | Silicone |
| | | Anodized aluminium |
| se | | Brass Brass chemically nickel plated |
| | | X14CrMoS17 1.4104 |
| | | X5CrNi18-10 1.4301 |
| har componente | | X10CrNi18-8 1.4310 |
| ner components | | Steel category A2 for screws |
| | | Polyacetate-C, Polyamide |
| ominal current for resistive loading ominal current for motor loading ontact system | | 1 A 0.5 A Changeover contact |
| ervice life | Mechanically | 10 ⁶ switching cycles ¹⁾ |
| | | 20 0000000 |
| otection standard | | |
| thout cover | | IP 00 |
| th cover (PG11) 2) th cover (PG9) 3) | | IP 54 IP 65 |
| | | IP 05 |
| peatability | | |
| 5% of the switching point | with diaphragm NBR-based / silicone | minimum ±0.4 mbar |
| 0% of the switching point | with diaphragm FPM / EPDM minimum ±0.8 mbar | |
| ectrical connections | | |
| rew terminals (Option) | | |
| b connectors (AMP) 6.3 mm | | |
| ble gland PG9 / PG11 | | with cover |
| essure connections | | |
| nread | | G 1⁄8 |
| raight screwed connection | Zinc plated steel with NBR seal for pipe (Ø 6 mm) | G 1/8 |
| rewed Socket | CuZn nickel plated for tube (Ø 6 mm) | G 1/8 |
| ounting instructions | | |
| ounting instructions or switching points calibrated in the factory | Indicate installation arrangem | nent |
| case of liquid media | indicate installation analigen | Connections down |
| | ching points also change. The adjustment ranges are in relation with the mo | |
| | | |
| eight ith aluminium base | | ~ 380 g |
| | | |

Single packaging in cardboard boxes



Legend to cross-section drawing

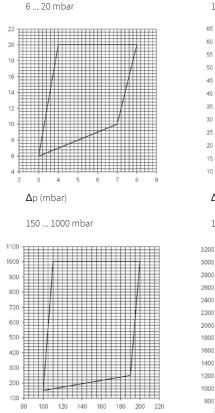
- Pressure case Diaphragm Vent

1

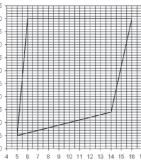
- 2 3 4 P1
- Permanent magnet Higher pressure / lower vacuum Lower pressure / higher vacuum P2

| | | | | | 2 | 3 | 4 | 5 | 6 | 7 |
|--------------------------------|--------------------------------------|---|------|---|---|---|---|---|---|---|
| Order code selection | table | | 630. | Х | Χ | Χ | Х | Х | Х | Χ |
| Presssure range ¹⁾ | 6 20 mbar | | | 9 | 1 | | | | | |
| | 15 60 mbar | | | 9 | 2 | | | | | |
| | 40 200 mbar | | | 9 | 3 | | | | | |
| | 150 1000 mbar | | | 9 | 4 | | | | | |
| | 1 3 bar | | | 9 | 5 | | | | | |
| | 2 5.5 bar | | | 9 | 6 | | | | | |
| Contact material | AgCdO | | | | | 0 | | | | |
| Pressure case | Anodized aluminium, black | | | | | | 0 | | | |
| | Brass | | | | | | 1 | | | |
| | Nickelplated brass | | | | | | 2 | | | |
| | Anodized aluminium, black | with straight screwed connection G1/8 for pipe ø 6 mm | | | | | 3 | | | |
| | Brass | with straight screwed connection G1/8 for pipe ø 6 mm | | | | | 4 | | | |
| | Nickel plated brass | with straight screwed connection G1/8 for pipe ø 6 mm | | | | | 5 | | | |
| | Anodized aluminium, black | with screwed socket G1⁄8 for tube ø 6 mm | | | | | 6 | | | |
| | Brass | with screwed socket G½ for tube ø 6 mm | | | | | 7 | | | |
| | Nickel-plated brass | with screwed socket G1⁄8 for tube ø 6 mm | | | | | 8 | | | |
| Diaphragm material | NBR | | | | | | | 0 | | |
| | FPM | | | | | | | 1 | | |
| | EPDM | | | | | | | 2 | | |
| | Q (silicone) | | | | | | | 3 | | |
| Cover PG9 on side / Bracket | Without cover | without bracket | | | | | | | 0 | |
| | | with bracket type A | | | | | | | 1 | |
| | | with bracket type B | | | | | | | 2 | |
| | With cover (plastic) (Fig.1) (PG11) | without bracket | | | | | | | 3 | |
| | | with bracket type A | | | | | | | 4 | |
| | | with bracket type B | | | | | | | 5 | |
| | With spec. cover (Fig.2) (PG9) | without bracket | | | | | | | 6 | |
| | | with bracket type A | | | | | | | 7 | |
| | | with bracket type B | | | | | | | 8 | |
| Switching points (optional) | Two factory set switching points | (please specify on order e.g.: W10/8mbar) | | | | | | | | W |
| | One factory set switching point high | (please specify on order e.g.: R25mbar) | | | | | | | | R |
| | One factory set switching point low | (please specify on order e.g.: U100mbar) | | | | | | | | U |

Setting ranges

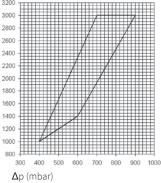


15 ... 60 mbar

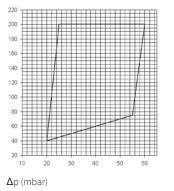


 Δ p (mbar)

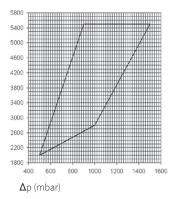
1000 ... 3000 mbar (1... 3 bar)



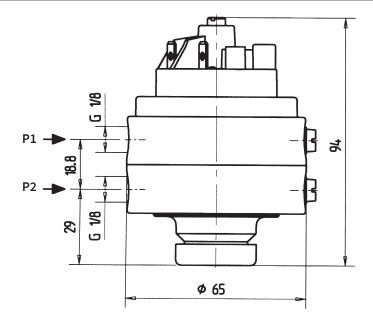




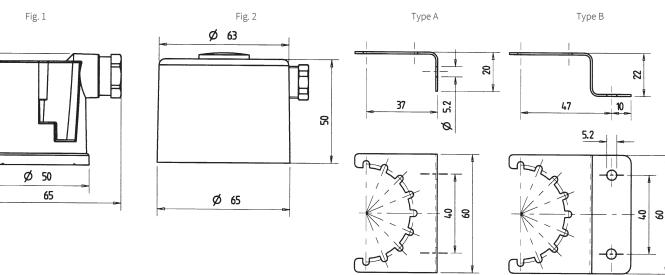
^{2000 ... 5500} mbar (2 ... 5.5 bar)



 Δ p (mbar)

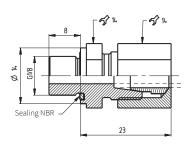




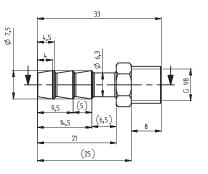


Straight screwed connector G $^{\prime\!\prime_8}$

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Screwed Socket G 1/8





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