

FOR FINE PRESSURE AND FLOW MEASUREMENT

Relative and differential pressure switch type 630

Pressure range 6 ... 5500 mbar



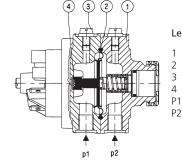
Differential pressure, vacuum and overpressure switches of type series 630 are suitable for monitoring neutral and slightly aggressive liquids and gases. Switching element isolated from medium.

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.

- 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 | | | | | | |
|--|---|--|--|--|--|--|
| lative und differential | | 6 5500 mbar | | | | |
| perating conditions | | | | | | |
| ledium | | Liquids and neutral gases | | | | |
| | NBR-based | 0 +80 °C | | | | |
| | FPM | -10 +80 °C | | | | |
| emperature | EPDM Q (Silicone) | -10 +80 °C | | | | |
| | Ambient | -40 +80 ℃ +65 ℃ | | | | |
| | Storage | -40 +80 ℃ | | | | |
| | ≤ 200 mbar | 10 bar | | | | |
| plerable overload and max. tolerable system pressure (P1 > P2) | > 200 mbar | 20 bar | | | | |
| upture pressure | | 30 bar | | | | |
| owest turn-on pressure | | \geq 6 mbar | | | | |
| nallest switching difference | | ≥ 3 mbar | | | | |
| aterials in contact with the medium | | | | | | |
| | | NBR based | | | | |
| | | EPDM | | | | |
| liaphragm | | FPM | | | | |
| | | Silicone | | | | |
| 250 | | Anodized aluminium Brass | | | | |
| ase | | Brass chemically nickel plated | | | | |
| | | X14CrMoS17 1.4104 | | | | |
| | | X5CrNi18-10 1.4301 | | | | |
| ther components | | X10CrNi18-8 1.4310 | | | | |
| | | Steel category A2 for screws | | | | |
| | | Polyacetate-C, Polyamide | | | | |
| Contact material / Loading | | | | | | |
| lominal voltage, type of current | | 250 VAC | | | | |
| lominal current for resistive loading | | 1 A | | | | |
| lominal current for motor loading | | 0.5 A | | | | |
| ontact system | | Changeover contact | | | | |
| ervice life | Mechanically | 10 ⁶ switching cycles ¹⁾ | | | | |
| rataction standard | | | | | | |
| rotection standard Vithout cover | | IP 00 | | | | |
| Vith cover (PG11) ²⁾ | | IP 54 | | | | |
| Vith cover (PG9) ³⁾ | | IP 65 | | | | |
| | | | | | | |
| epeatability | | | | | | |
| 5% of the switching point | with diaphragm NBR-based / silicone | minimum ±0.4 mbar | | | | |
| 10% of the switching point | with diaphragm FPM / EPDM | minimum ±0.8 mbar | | | | |
| lectrical connections | | | | | | |
| crew terminals (Option) | | | | | | |
| ab connectors (AMP) 6.3 mm | | | | | | |
| able gland PG9 / PG11 | | with cover | | | | |
| | | | | | | |
| ressure connections | | G 1/8 | | | | |
| traight screwed connection | Zinc plated steel with NBR seal for pipe (Ø 6 mm) | G 1/8 | | | | |
| crewed Socket | CuZn nickel plated for tube (Ø 6 mm) | G 1/8 | | | | |
| | | | | | | |
| lounting instructions | | | | | | |
| or switching points calibrated in the factory | | Indicate installation arrangement | | | | |
| case of liquid media | nte alco chango. The adjustment tanges are in relation with | Connections down | | | | |
| emark: By changing the mounting position the switching poir | nts also change. The adjustment ranges are in relation with | the mounting position. | | | | |
| /eight | | | | | | |
| Vith aluminium base | | ~ 380 g | | | | |
| Vith base brass / nickel-plated brass | | ~ 1000 g | | | | |
| | | | | | | |

Single packaging in cardboard boxes



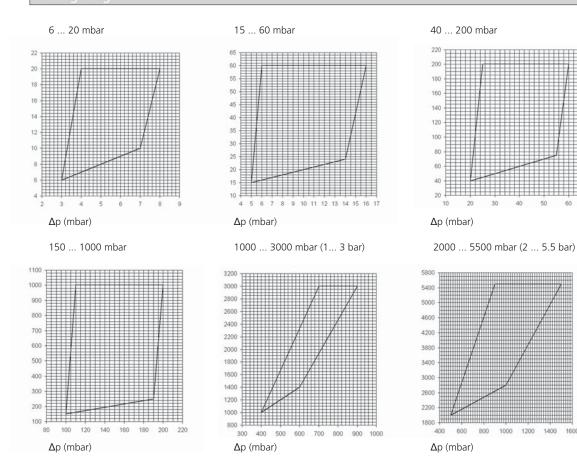
Legend to cross-section drawing

- Pressure case Diaphragm Vent

1

- Permanent magnet
- Higher pressure / lower vacuum Lower pressure / higher vacuum
- Ρ2

| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------------------------------|--------------------------------------|---|------|---|---|---|---|---|---|---|
| Order code selection table | | | 630. | Х | Х | Х | Х | Х | Х | Х |
| 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 G ¹ / ₈ for tube ø 6 mm | | | | | 6 | | | |
| | Brass | with screwed socket G ¹ / ₈ for tube ø 6 mm | | | | | 7 | | | |
| | Nickel-plated brass | with screwed socket G ¹ /s 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 |



¹⁾ Other pressure range on request

16

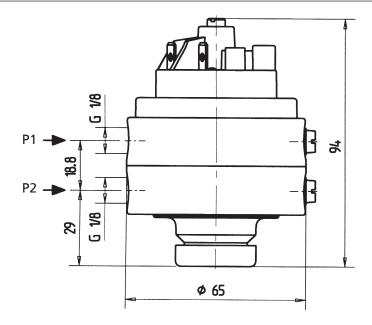
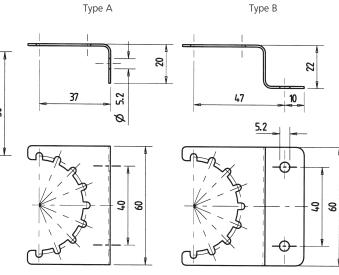




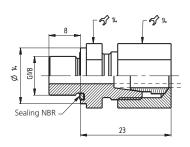
Fig. 2



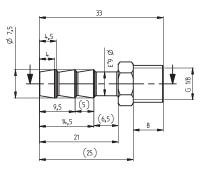
Straight screwed connector $\,$ G $\, ^{\prime \! \prime \! _{8}}$

Fig. 1

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Screwed Socket G 1/8



Huba Control type 630 - Technical data subject to change - Edition 05/2016

Huba Control

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