

SUCO - 0183 PRESSURE SWITCH

High pressure

0183462451051

100..300 bar, M14x1.5, CO, NBR, Spade

- Up to 250 V
- Spade terminals
- Two adjustment ranges of 100..300 bar & 200..400 bar
- Changeover (SPDT)
- Over pressure safety of 600 bar



PRODUCT DESCRIPTION

The SUCO 0183 is a high-pressure SPDT (changeover) piston pressure switch housed in a compact hex-27 zinc-plated steel body. It supports field-adjustable switching points within two ranges, with an overpressure safety rating up to 600 bar. With spade electrical connections, it accommodates voltages from 10 V to 250 V AC/DC and resistive currents up to 4 A. The switch features silver snap-action contacts, $\pm 10\%$ deviation, hysteresis of 10–30%, and a mechanical lifespan exceeding one million cycles. It performs reliably between $-40\text{ }^{\circ}\text{C}$ and $+100\text{ }^{\circ}\text{C}$ on the media side (up to $+120\text{ }^{\circ}\text{C}$ with EPDM or FKM seals), and $-20\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$ ambient. Variants offer choice of seals (NBR, EPDM, FKM, HNBR) for compatibility with various fluids.

Engineered for demanding, high-pressure systems, the SUCO 0183 excels in rugged environments such as mobile hydraulics, power packs, water systems, test benches, and industrial fluid control. Its compact size and durable construction enable straightforward integration into hydraulic manifolds, pipeline safety circuits, and pump control systems. The field-adjustable setpoint allows onsite fine-tuning during commissioning, while its high overpressure rating ensures safety and resilience under extreme pressure spikes. Ideal for uses in agriculture, construction, and industrial automation, the 0183 offers a dependable, long-life solution for critical pressure monitoring and switching tasks.

TECHNICAL DATA

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|------------------------------|-------------------------------|
| Adjustment range max | 300 bar |
| Adjustment range min | 100 bar |
| Approvals | CSA US, RoHS II |
| Contact load max ac | 4 A |
| Contact load max dc | 0.25 A |
| Deviation max | $\pm 10,0$ |
| Electrical connection | Spade (AMP 6,3x0,8 mm) |
| Function | Changeover (SPDT) |
| Hysteresis | 10-30% depending on set value |
| IP class | IP00 |

| | |
|-----------------------------|------------------------|
| Material membrane | NBR |
| Material of body | Zinc-plated steel |
| Material of wetted parts | Zinc-plated steel, NBR |
| Max switching frequency/min | 200 |
| Mechanical life expectancy | 1 million exchanges |
| Pressure max | 600 bar |
| Process connection | M14x1.5 |
| Temperature ambient from | -20 °C |
| Temperature ambient to | 80 °C |
| Temperature of media from | -40 °C |
| Temperature of media to | 100 °C |
| Weight | 100 g |
| Voltage ac/dc max | 250 V |
| Voltage ac/dc min | 10 V |

