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SUCO - 0170/0171 PRESSURE SWITCH

Basic changeover switch

0170457033003
0,3..1,5bar, G1/4, CO, FKM, Spade



- Up to 42 V
- Spade terminals
- Five adjustment ranges from 0.3-1.5 bar to 50-200 bar
- Changeover (SPDT)
- Over pressure safety from 100 bar up to 600 bar

PRODUCT DESCRIPTION

The SUCO 0170 and 0171 pressure switches are compact, robust mechanical devices designed for reliable performance in demanding hydraulic and pneumatic systems. Featuring 27 mm hex zinc-plated, Cr VI-free steel body and AMP 6.3 × 0.8 mm spade terminals, these switches support up to 42 V AC/DC and a resistive load of 4 A. They are equipped with silver snap-action contacts and offer switching frequencies up to 200 cycles per minute with a mechanical life expectancy of around one million cycles. The 0170 model uses a diaphragm mechanism suited for lower pressure ranges (starting from 0.3 bar), while the 0171 piston variant handles higher pressures, up to 200 bar, with excellent overpressure resistance, 100 bar for the diaphragm and up to 600 bar for the piston version. The switching point is field-adjustable across five pressure bands and includes a factory-set hysteresis of 10–30%, offering flexibility in integration and performance tuning. A wide selection of sealing materials, including NBR, EPDM, FKM, FFKM, and HNBR, ensures compatibility with various fluids and operating temperatures ranging from –30 °C up to +120 °C.
These switches are ideal for a range of industrial and mobile applications such as hydraulic power packs, compressors, filtration systems, and lubrication or braking circuits in heavy equipment. The diaphragm version excels in sensitive control systems involving air, water, or oil at lower pressures, while the piston version provides reliable high-pressure monitoring in robust environments like construction machinery, factory automation, or process plants. Their compact form factor, high durability, and strong resistance to vibration and pressure surges make them a versatile and dependable choice for pressure monitoring and safety interlocking in diverse operating conditions.

TECHNICAL DATA

Adjustment range min	0.3 bar
Adjustment range max	1.5 bar
Pressure max	100 bar
Function	Changeover (SPDT)
Electrical connection	Spade (AMP 6,3x0,8 mm)
IP class	IP00
Approvals	CSA US, RoHS II
Material of body	Galvanized steel
Material of wetted parts	FKM, Galvanized steel

Material membrane	FKM
Temperature of media from	-5 °C
Temperature of media to	120 °C
Contact load max ac	4 A
Contact load max dc	0.25 A
Voltage ac/dc max	42 V
Voltage ac/dc min	10 V
Temperature ambient from	-20 °C
Temperature ambient to	80 °C
Deviation max	±0,2
Max switching frequency/min	200
Process connection	1/4 BSP
Weight	100 g

Hysteresis	10-30% depending on set value
Mechanical life expectancy	1 million exchanges







