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SUCO - 0116/0117 PRESSURE SWITCH

IP67, IP6K9K

0116403031011
0,1..1 bar, G1/4, No, NBR, Deutsch DT04-3P



- Up to 42 V
- Deutsch DT04-3P integrated connector
- Six adjusment ranges from 0,1..1 bar to 50..150 bar
- Normally open or normally closed
- Overpressure safety of 300 bar or 600 bar

PRODUCT DESCRIPTION

The SUCO 0116 & 0117 models are rugged hex-24 mm mechanical pressure switches designed for harsh hydraulic and pneumatic environments. Model 0116 features a diaphragm design with a field-adjustable range of approximately 1.45–725 psi (0.1–50 bar), while the 0117-piston version covers higher pressures (725–2,175 psi or 50–150 bar). Both utilise zinc-plated Cr VI-free steel bodies with Deutsch DT04-3P connectors rated IP67/IP6K9K when mated. They operate up to 42 VAC/DC at 4 A resistive (100 W DC, 100 VA AC), with silver contacts for reliable switching. Overpressure safety ratings reach up to 600 bar for 0117 and 300 bar for 0116. The differential is non-adjustable, averaging around 5–30% of setpoint, and the switches deliver high durability: up to 1 million cycles mechanically, switching rates around 200/min, with excellent shock/vibration tolerance and full IP protection.
In practice, these switches excel in demanding mobile-hydraulic systems, industrial machinery, off-highway equipment, and process plants. The 0116 diaphragm switch is ideal for low to mid-pressure monitoring in hydraulic lines controlling transmissions, steering systems, compressors, or filtration systems. The 0117 piston version is better suited for higher pressure circuits such as heavy-duty actuation, brake monitoring, and high-pressure oil systems. Users appreciate on-site setpoint adjustment, stainless connector robustness under harsh conditions, and high overpressure margins that safeguard against transient spikes. These reliable, precision switches ensure efficient pump control, fault detection, and pressure safety in environments ranging from agriculture and construction to OEM integration.

TECHNICAL DATA

Adjustment range max	1 bar
Adjustment range min	0.1 bar
Approvals	CSA US, RoHS II
Contact rating max	4 A
Deviation max	±0,2
Electrical connection	Deutsch DT04-3P
Function	Normally open
IP class	IP67, IP6K9K
Material membrane	NBR

Material of body	Zinc-plated steel
Material of wetted parts	Zinc-plated steel, NBR
Max switching frequency/min	200
Pressure max	300 bar
Process connection	1/4 BSP
Temperature ambient from	-20 °C
Temperature ambient to	80 °C
Temperature of media from	-40 °C
Temperature of media to	100 °C
Type Pressure Switch	High accuracy
Voltage ac/dc max	42 V
Voltage ac/dc min	10 V
Weight	90 g







0116 / 0117

Deutsch DT04-3P
IP67, IP6K9K
H ≈ 63 mm
