

DPS-EP Series

Differential Pressure Switch



Description

The DPS-EP series, developed by Taelco, is engineered for aerospace and military mission-critical applications. These include demanding uses such as detection of hydraulic and lubrication oil filter in engine clogging condition, fuel filtration and delivery lines, and environmental control and pressurization monitoring systems.

Designed to operate reliably in challenging environments, the DPS-EP series offers complete immunity to electromagnetic interference (E3) due to its inherently fully mechanical design.



DPS-EP Series Specifications

Functional Specifications	
Switch Type	SPST/Normally Open
Sealing	Hermetically sealed
Media	Liquid, Gas
Operating Media	DOD-PRF-85734 MIL-PRF-23699
Actuates Dif. Pressure	125 ± 15 kPa
Deactuates Dif. Pressure	100 ± 10 kPa
Operating Pressure	600 kPa nominal (relative) 800 kPa maximum (relative)
Proof Pressure	3000 kPa
Burst Pressure	4500 kPa

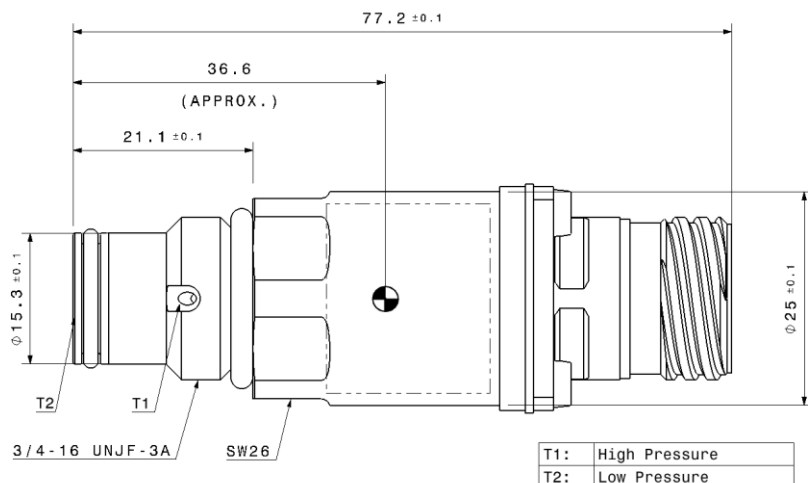
Electrical Specifications	
Resistive Load	2A (@ 28VDC or 115VAC, 60Hz)
Inductive Load	0.5A (@ 28VDC or 115VAC, 60Hz)
DWV	1000 Vrms
Connector information	D38999 / 21YB98PN

Environmental Specifications	
Low Temp (Storage)	-55 °C DO-160G Section 4.5.1
Low Temp (Operating)	-55 °C DO-160G Section 4.5.2
High Temp (Storage)	+125 °C IEC 60068-2-2
High Temp (Operating)	+125 °C IEC 60068-2-2
Shock	100ms 45G (longitudinal axis, see Dimensions and Interfaces)
Vibration	Random: 15 to 2000 Hz @ approx. 50G (peak) MIL-STD-810G, Method 514.6
Altitude (Storage)	45000 feet per MIL-STD-810G CHG-1, Method 500.6-P.I
Altitude (Operating)	45000 feet per MIL-STD-810G CHG-1, Method 500.6-P.II
Salt Fog	MIL-STD-810G CHG-1, Method 509.6
Sealing	IP67, IEC-60529

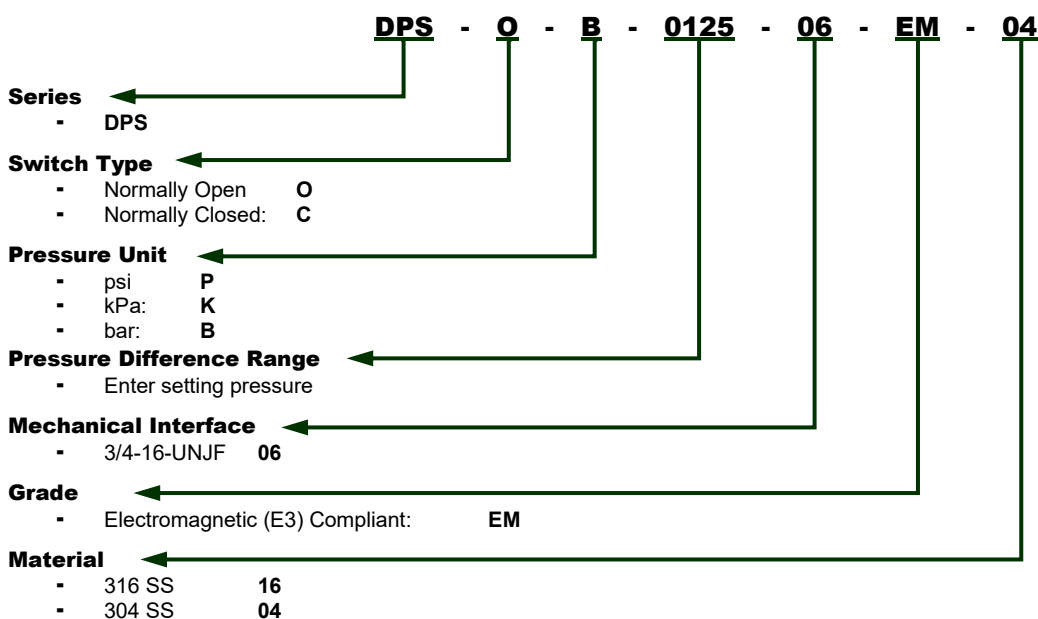
Mechanical Specifications	
Material	Stainless Steel
Sealing	Fluorosilicone
Mechanism	Spring and Magnetism
Weight	150g (max.)
Mounting Torque	10.0Nm
Thread Length	8.0mm
Thread	3/4-16-UNJF
Warranty	24 months

Dimensions and Interfaces

Housing & Pressure Interface



Ordering Information



Typical ordering example: Normally open, 125 kPa pressure, 3/4-16 UNJF mechanical interface, Electromagnetic (E3) Compliant Grade, 303 SS material: **DPS-O-B-0125-06-EM-04**

For stock and price inquiry please contact us at: sales@taelco.com or www.taelco.com/en/contact-us/
Shipping, customs fees etc. are not included in the price quotation. TAE LCO is not responsible for customs clearance.

Revision History

Revision	Reasons for Revision	Issue Date
REV A	<ul style="list-style-type: none">First revision.	20.11.2025

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