

DPS-EP Series

Differential Pressure Switch

TAE LCO

Description

The DPS-EP series, developed by TAE LCO, is engineered for aerospace and military mission-critical applications. These include demanding uses such as detection of hydraulic and lubrication oil filter in 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	SPDT, Normally Open / Close
Sealing	Hermetically sealed
Media	Oils, fuels, coolants up to 200 °C
Set Pressure ¹⁾	125 to 600 kPa (± %15 of setting)
Reset Pressure	%25 of setting pressure (max.)
Operating Pressure	2000 kPa
Burst Pressure	4000 kPa

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

Electrical Specifications

Resistive Load	2A (@ 28VDC or 115VAC, 60Hz)
Inductive Load	0.5A (@ 28VDC or 115VAC, 60Hz)
DWV	1000 Vrms @ sea level 400 Vrms @ 50.000 feet
Electrical interface ²⁾	D38999 / 21YB98PN

Mechanical Specifications

Material ³⁾	316 SS
Sealing ⁴⁾	Fluorosilicone
Weight	100g (max., excluding connector)
Mounting Torque	10.0Nm

1) Application dependent. Select set pressure value from Ordering Information section.

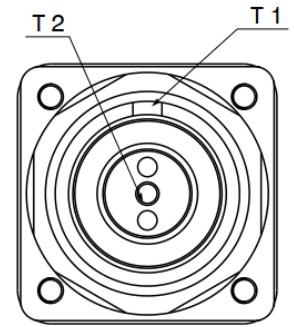
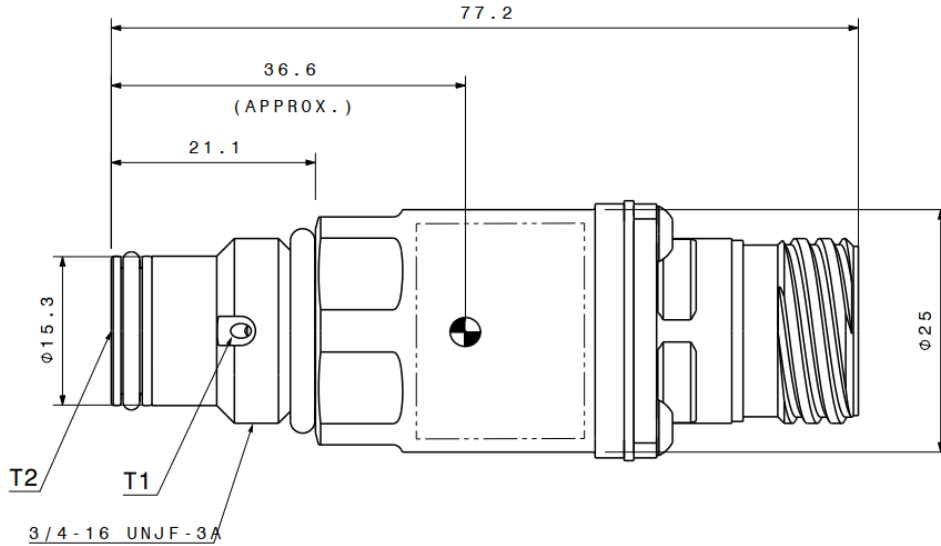
2) Default connector, product may be built with compatible connector upon manufacturer discretion due to availability or customer specification. For details see Electrical Interface section.

3) For production in different materials please contact us.

4) Default o-ring material, media dependent. For different o-ring materials please contact us.

Dimensions and Interfaces

Housing & Pressure Interface



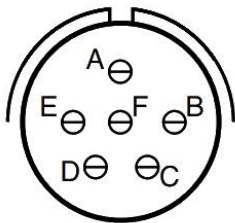
T1:	High Pressure
T2:	Low Pressure

Electrical Interface (I/F)

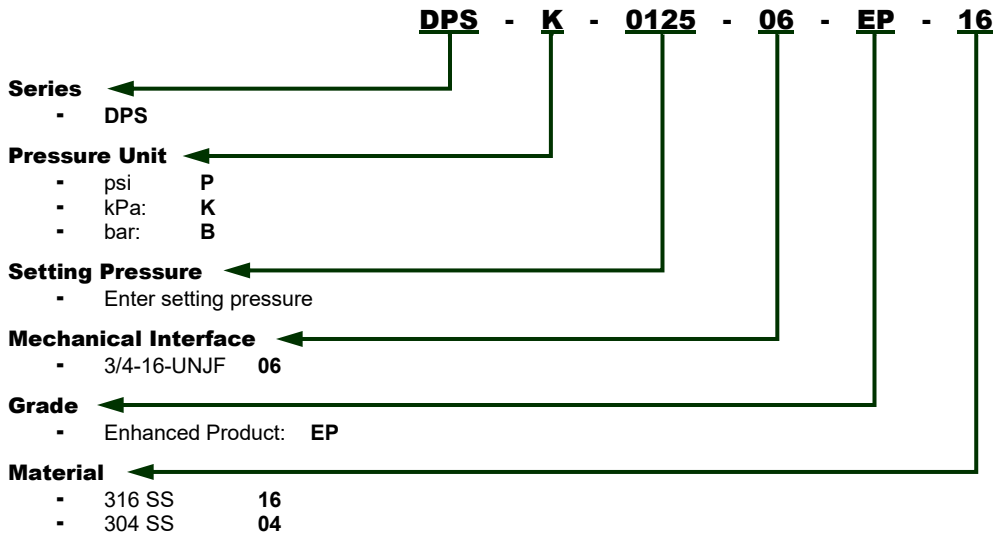
The electrical I/F is a D38999/21YB98PN compatible circular connector.

Connector Pin Out

Normally Open (NO)	A
Common (COM)	B
Normally Closed (NC)	C
Do Not Connect (DNC)	D
Do Not Connect (DNC)	E
Do Not Connect (DNC)	F



Ordering Information



Typical ordering example: 125 kPa pressure, 3/4-16 UNJF mechanical interface, Enhanced Product (EP), 316 SS material: **DPS-K-0125-06-EP-16**

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 C	• Third revision. • Minor corrections, added footnotes.	14.09.2026
REV B	• Second revision. • Minor corrections regarding part number in the Ordering Information section. • Added Electrical Interface (I/F) section.	24.11.2025
REV A	• First revision.	20.11.2025

Notice and Disclaimer

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