

Made in Canada the **Presco-Switch** is a Pressure Control Switch that opens or closes one or more integral electric microswitches at predetermined setpoints in order to

- Start/stop pump motors for pump jacks and electric submersible pump systems
- Stop gas engines
- Control valve operations
- Shutdown wellhead and flowline pressure

Available in diaphragm or piston style pressure sensors with either auto or manual reset switch arrangements, the **Presco-Switch** offers a large variety of combinations to meet these and other applications.

Features:

- Convenient microswitch adjustments make field calibrations easy
- Versatile switching arrangements with single and dual microswitch options in a single device satisfy most applications
- Interchangeable springs and internal components allow for easy field modifications and repairs
- Rugged design with guided plunger and heavy-duty spring allow the **Presco-Switch** to withstand severe operating conditions, including shock and vibration with a useful life that exceeds other pressure switch mechanisms.
- Mechanical plunger stop provides for overrange protection without the need to recalibrate
- CSA approved with Dual-Seal design certified to meet ANSI/ISA-12.27.01-2003 requirement



General Specifications:

Electrical Rating	5A – 125/250/480 VAC; 0.5A – 125VDC; 0.25A – 250VDC; SPDT
Electrical Classification	CSA c/us Approved per C22.2/UL1203/UL508; Class 1, Group D Hazardous Locations; Dual Seal Compliant per ANSI/ISA-12.27.01 requirements
Electrical Temperature Rating	-50°C...82°C (-58°F...180°F)
Electrical Housing	Cast Aluminum; 90mm (3-1/2") OD with 21.3mm (1/2") NPT(f) connection
Repeatability	1% to 2% of adjustable range
Service	Standard corrosion resistant trim and H ₂ S NACE MR0175 on Select Models
Pressure Connection	60.3mm (2") NPT(m); Zinc Electroplated High Strength Carbon Steel
Pressure Ratings (MWP)	Type D (1.25" piston): 1,379kPag @ -50°C...82°C; (200psig @ -58°F...180°F) Type D (0.63" piston): 20,684kPag @ -50°C...82°C; (3,000psig @ -58°F...180°F) Type S (all plungers): 34,474kPag @ -50°C...82°C; (5,000psig @ -58°F...180°F)
CRN	OF20302.213

Presco-Switch Model Number Selection:

Base Arrangement:

- D** – Diaphragm pressure sensor for mildly sour and corrosive gas, crude oil and water service
- S** – Lapped plunger pressure sensor for sour and corrosive gas, crude oil and water service

Microswitch Housing Arrangement:

- F** – Single Fixed Differential Switch, approximately +/- 4% differential
- FF** – Dual Fixed Differential Switch, with independent circuits, approximately +/- 4% differential
- FV** – One Fixed Differential Switch, One Variable Differential Switch
- V** – Single Variable Differential Switch, for high / low setting differential
- VV** – Dual Variable Differential Switch, with independent circuits for high / low setting differential
- M** – Manually reset after trip, single switch

Spring Range Number:

Select spring range from the chart below.

SFF – 100*

Presco-Switch Spring Range Chart:

Range No.	Type D Base			Type S Base		
	Piston dia.	Switch Pressure Range		Plunger dia.	Switch Pressure Range	
		kPa	psi		kPa	psi
7	1.25"	69 – 483	10 – 70	-	-	-
15	1.25"	103 – 621	15 – 90	-	-	-
20	1.25"	138 – 1,379	20 – 200	-	-	-
30	-	-	-	0.87"	276 – 2,068	40 – 300
40	0.63"	276 – 2,758	40 – 400	0.87"	345 – 2,758	50 – 400
50	-	-	-	0.87"	414 – 3,447	60 – 500
60	0.63"	414 – 4,137	60 – 600	0.87"	483 – 4,137	70 – 600
70	-	-	-	0.87"	621 – 4,826	90 – 700
80	-	-	-	0.63"	689 – 5,516	100 – 800
100	0.63"	689 – 6,895	100 – 1,000	0.63"	862 – 6,895	125 – 1,000
125	0.63"	1,034 – 8,618	150 – 1,250	0.63"	1,103 – 8,618	160 – 1,250
150	0.63"	2,068 – 10,342	300 – 1,500	0.63"	1,379 – 10,342	200 – 1,500
200	0.63"	2,758 – 13,789	400 – 2,000	0.38"	1,896 – 13,790	275 – 2,000
250	0.63"	3,447 – 17,237	500 – 2,500	0.38"	2,413 – 17,237	350 – 2,500
300	0.63"	4,137 – 20,684	600 – 3,000	0.38"	2,930 – 20,684	425 – 3,000

Component wetted parts meeting the requirements of NACE MR0175 are available on select models.

* Additional letters may be used to designate different trim or material options. Assigned by Pembina Controls.

Made in Canada with foreign and domestic parts

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Presco®-Switch Accessories



Isolation Valves

32-385631	2" MNPT x 2" FNPT, Low Temp A350-LF2 body, NACE 3-Piece Design, 4000WOG c/w two 1/2" NPT instrument ports
32-388416	2"-600# RF x 2" FNPT, Low Temp A350-LF2 body, NACE 3-Piece Design, 1480psig c/w two 1/2" NPT instrument ports
32-388417	2"-1500# RF x 2" FNPT, Low Temp A350-LF2 body, NACE 3-Piece Design, 3705psig c/w two 1/2" NPT instrument ports
32-388724A	2"-2500# RTJ x 2" FNPT, Low Temp A350-LF2 body, NACE 3-Piece Design, 6170psig c/w two 1/2" NPT instrument ports

Sealed Cables

31-040	40ft (12m) long, 3C #14AWG SOOW Water Resistant Cable c/w elbow, union and poured seal for Class 1 Div.1 areas
31-060	60ft (18m) long, 3C #14AWG SOOW Water Resistant Cable c/w elbow, union and poured seal for Class 1 Div.1 areas

Instrument Valves

404-MFS-P1	316SS Needle valve, 6000psig, 1/2" MxF NPT c/w PTFE adjustable packing and hard seat
504-MFS-P1	316SS Needle valve, 6000psig, 1/2" MxF NPT c/w PTFE adjustable packing and Acetal replaceable soft seat

Pressure Gauges

40-500-1500 -psi/kpa -GY40	4" dial stainless steel pressure gauge 0-1500psig, dual scale, 1/2" NPT -40°C liquid filled
40-500-3000 -psi/kpa -GY40	4" dial stainless steel pressure gauge 0-3000psig, dual scale, 1/2" NPT -40°C liquid filled



For our sales catalogue showing available models, or for installation, operation and maintenance procedures, please visit Pem-Controls.com or contact us at sales@pem-controls.com

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