

Dwyer

SERIES A6 | MERCOID® BY DWYER

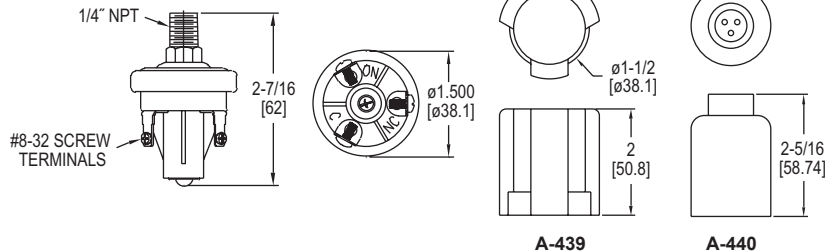
DURABLE PRESSURE SWITCHES

Designed for Extended Duty, Simple and Reliable



A-439

A-440



A-439

A-440

Series A6 Durable Pressure Switches have been specifically designed to stand up to extended duty applications. These switches are constructed with a polyimide film diaphragm and are compatible with a variety of fluids. For ease of installation, the switches come with a 1/4" male NPT process connection and can be mounted in any orientation. The Series A6 pressure switches are compact and have great set point integrity, and feature simple, easy set point field adjustment.

FEATURES/BENEFITS

- High switch cycle means long life for extended duty applications
- Mounting in any position and feature simple makes a reliable switching for equipment and OEM applications

APPLICATIONS

- OEM
- Process equipment
- Process applications

MODEL CHART

Model	Set Point Range psi (bar)	
	NC	NO
A6-153221	0.5 to 1 (0.03 to 0.07)	1.1 to 3.1 (0.08 to 0.21)
A6-253221	1.1 to 3 (0.08 to 0.21)	2.27 to 6.05 (0.16 to 0.42)
A6-353221	3.1 to 7 (0.21 to 0.48)	4.22 to 10.75 (0.29 to 0.74)
A6-453221	8 to 13 (0.55 to 0.90)	12.3 to 17.5 (0.85 to 1.21)
A6-553221	14 to 24 (0.97 to 1.66)	18.6 to 31.8 (1.28 to 2.19)
A6-653221	25 to 50 (1.73 to 3.45)	33.1 to 61 (2.28 to 4.21)
A6-753221	51 to 90 (3.52 to 6.21)	65.6 to 112.3 (4.53 to 7.75)
A6-853221	91 to 150 (6.28 to 10.35)	114.7 to 198.3 (7.94 to 13.68)

SPECIFICATIONS

Service: Air, motor oils, transmission oils, jet fuels, and similar hydrocarbon media. (Not for water use)

Wetted Materials: Base: 304 SS; Diaphragm: Polyamide film.

Temperature Limits: -40 to 248°F (-40 to 120°C).

Pressure Limits: Operating pressure: 150 psi (10.3 bar) for 0.5-24 psi set point ranges; 250 psi (17.2 bar) for 25 to 150 psi set point ranges; Proof pressure: 500 psi (34.5 bar); Burst pressure: 750 psi (51.7 bar) for 0.5-24 psi set point ranges, 1250 psi (86.2 bar) for 25-150 psi set point ranges.

Enclosure Rating: General purpose or with cover: IP65 - weatherproof.

Repeatability: ±10% of set point.

Set Point Tolerance: ±15% of range.

Switch Type: 1 SPST NO, 1 SPST NC.

NO and NC switch independent from each other.

Electrical Ratings: Resistive: 15 A @ 6 VDC, 8 A @ 12 VDC, 4 A @ 24 VDC; Inductive: 1 A @ 120 VAC, 0.5 A @ 240 VAC.

Electrical Connections: #8-32 screw terminals.

Process Connection: 1/4" NPT male.

Mounting Orientation: Switch can be installed in any position.

Set point Adjustment: Screw.

Weight: 0.13 lb (0.06 kg).

ACCESSORIES

Model	Description
A-439	Weatherproof IP65 cover
A-440	Weatherproof IP65 with fly-wire holes

USA: California Proposition 65

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

SERIES AP | MERCOID® BY DWYER

DIAPHRAGM OPERATED PRESSURE SWITCH

Visible Set point Adjustment, Compact



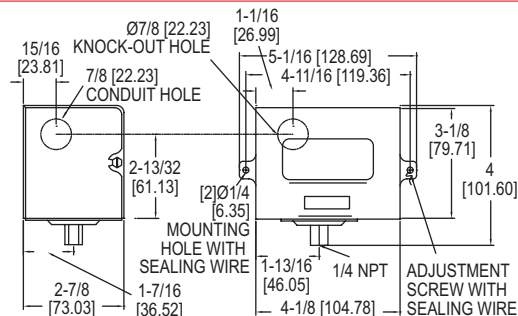
Reliable and convenient, the **Series AP Diaphragm Operated Pressure Switch** is a compact switch for instrument air or other low pressure applications. Visible set point and external adjustment add convenience. Used on air, non-corrosive gas or liquid service compatible with wetted parts. Units are available in weather-proof and explosion-proof housing.

FEATURES/BENEFITS

- Explosion-proof and weatherproof housing provides device protection for outdoor use or harsh environment operation
- External switch set point adjustment reduces set-up time

APPLICATIONS

- Low pressure applications
- Instrument air

**SPECIFICATIONS**

Wetted Materials: Nylon reinforced Buna-N and steel. PTFE and 316 SS optional.

Temperature Limits: -30 to 150°F (-35 to 66°C).

Pressure Limit: See model chart.

Enclosure Rating: General purpose.

Weatherproof and explosion-proof optional.

Switch Type: SPDT mercury switch or SPDT snap switch. Other switch types available.

Electrical Rating: Mercury switch: 4 A @ 120 VAC/DC, 2 A @ 240 VAC/DC; Snap switch: 15 A @ 120 VAC, 8 A @ 240 VAC, 0.5 A @ 120 VDC, 0.25 A @ 240 VDC.

Electrical Connections: Screw terminal.

Conduit Connection: 7/8" (22.23 mm) hole for 1/2" (12.7 mm) conduit hub.

Process Connection: 1/4" female NPT.

Mounting Orientation: Vertical for mercury switch models, any position for snap switch models.

Set Point Adjustment: External screw.

Weight: General purpose: 2 lb (0.9 kg).

Deadband: See model chart.

Agency Approvals: FM, UL. For FM consult factory.

MODEL CHART

Model	Switch* Type	Ranges	Switch Deadband		Max. Press. psig(bar)
			Low	High	
AP-153-33	Mercury	10 in VAC to 50 in w.c. (2.5 to 12.4 kPa)	5 in w.c. (1.2 kPa)	6 in w.c. (1.49 kPa)	15 (1.03)
AP-153-37	Mercury	1 to 30 psig (.07 to 2.1 bar)	0.4 psig (0.03 bar)	0.75 psig (0.05 bar)	60 (4.14)
AP-153-39	Mercury	10 to 125 psig (.69 to 8.6 bar)	2 psig (0.14 bar)	6 psig (0.04 bar)	160 (11.0)
AP-7021-153-33	Snap	10 in VAC to 50 in w.c. (2.5 to 12.4 kPa)	8 in w.c. (2.0 kPa)	10 in w.c. (2.49 kPa)	15 (1.03)
AP-7021-153-37	Snap	1 to 30 psig (.07 to 2.1 bar)	0.75 psig (0.05 bar)	1.5 psig (0.10 bar)	60 (4.14)
AP-7021-153-39	Snap	10 to 125 psig (.69 to 8.6 bar)	3 psig (0.21 bar)	7 psig (0.48 bar)	160 (11.0)

*Mercury switch units are not CE approved.