



Series  
A1PS/  
A1VS

# Economical Pressure Switch

Vacuum and Compound Ranges Available, Adjustable Set Point



**Series A1PS/A1VS Economical Pressure Switches** are designed with a 15 Amp SPDT switch for direct control of pumps and motors. Available in pressure, vacuum, or compound ranges, the switches offer a field adjustable set point. Easily adjust the switch by aligning the top of the self locking adjusting nut with the desired setting indicated on the adjacent range scale. Connection is 1/4" male NPT for quick installation and can be mounted in any position.

## SPECIFICATIONS

**Service:** Compatible liquids or gases.  
**Wetted Materials:** Diaphragm: Buna-N; Body with Fitting: Zinc alloy, chromate finish.  
**Temperature Limits:** -31 to 185°F (-35 to 85°C).  
**Pressure Limits:** 600 psig.  
**Vacuum Limits:** 29.9" Hg (vacuum and compound models only).  
**Switch Type:** SPDT snap action.

**Electrical Ratings:** 15A (resistive) @ 250 VAC, 1/2 HP @ 250 VAC.

**Electrical Connections:** Three screw terminals.

**Process Connection:** 1/4" male NPT.

**Setpoint:** Field adjustable via knurled screw cap.

**Cycling:** Not to exceed 1 Hz.

**Sensor Element:** Diaphragm.

**Weight:** 7.4 oz (209 g).

**Agency Approvals:** UL.

## MODELS

Model Number	Set Point Range (kPa)	Repeatability (kPa)	Deadband (approx.) (kPa)	Model Number	Set Point Range (kPa)	Repeatability (kPa)	Deadband (approx.) (kPa)
A1PS-14	1.5-3.5 psi (10-24)	±0.15 psi (1)	0.5-1.7 psi (3-11)	A1VS-14	6-28" Hg (-20 to -94)	±1.2" Hg (-4)	3-14" Hg (-10 to -47)
A1PS-24	3-40 psi (21-276)	±1.0 psi (7)	2-5 psi (14-34)	A1VS-24	28" Hg to 3.5 psig (-94 to 24)	±1.2" Hg (-4)	3-14" Hg (-10 to -47)
A1PS-34	30-150 psi (207-1034)	±5.0 psi (34)	5-30 psi (34-207)			±0.15 psi (1)	0.5-1.7 psi (3-11)
A1PS-44	100-500 psi (689-3445)	±20.0 psi (138)	30-120 psi (207-827)				



Series  
APS/  
AVS

# Adjustable Pressure Switch

Vacuum and Pressure Ranges, 5A Switch, Compact Size



**Miniature Series APS/AVS Adjustable Switches** offer reliable switching for pressure/vacuum alarm, shutdown or control. The units are readily adjustable throughout their range using the locking adjusting ring and indicating pointer. The body is constructed of stainless steel for durability in harsh environments. Switches include 12" (30 cm) wire leads sealed with epoxy for additional protection.

## SPECIFICATIONS

**Service:** Compatible liquids or gases.

**Wetted Materials:** Capsule: 17-7 PH; Fitting: 303 SS.

**Temperature Limits:** -65 to 225°F (-54 to 107°C), a set point change of up to 2% when used below -10°F (-23°C) or above 125°F (52°C).

**Pressure/Vacuum Limits:** 150% of range.

**Switch Type:** SPDT snap action.

**Electrical Ratings:** 5A @ 250 VAC, 3A @ 28 VDC.

**Electrical Connections:** 3-wire, 20 AWG insulated with PVC, 12" (30 cm) length.

**Process Connection:** 1/8" male NPT.

**Setpoint:** Field adjustable.

**Cycling:** Not to exceed 20 CPM.

**Sensor Element:** Capsule.

**Weight:** 3 oz (85 g).

## MODELS

Model Number	Set Point Range psi (bar)		Repeatability psi (bar)	Deadband psi (bar)	Model Number	Set Point Range "Hg (cm Hg) Vac		Repeatability "Hg (cm Hg)	Deadband "Hg (cm Hg)
	Increasing	Decreasing				Increasing	Decreasing		
APS-150	0.8-28.5(.06-2.0)	1.6-30.0(.11-2.1)	±0.6(.04)	0.8-1.3(.06-.09)	AVS-150	1.6-27.1(4.1-68.6)	2.7-28.2(6.9-71.6)	±1.2(3.1)	1.3-2.7(3.3-6.9)
APS-250	2.0-48.0(.14-3.3)	3.0-50.0(.21-3.5)	±1.0(0.7)	1-1.7(.07-.12)	AVS-250	4.0-24.8(10.2-63.0)	5.1-28.2(13.0-71.6)	±2.0(5.1)	1.5-3.2(3.8-8.1)
APS-350	3.0-96.5(.21-6.7)	4.5-100(.31-6.9)	±2.0(.14)	1.6-4(.11-.28)	AVS-350	6.0-21.5(15.2-54.6)	8.4-28.2(21.3-71.6)	±4.0(10.2)	2.6-7.3(6.6-18.5)
APS-450	7.5-242(.52-16.7)	9.7-250(.67-17.2)	±5.0(.35)	2.5-9(.17-.62)					
APS-550	15.0-485(1.0-33.4)	20.0-500(1.4-34.5)	±10.0(.69)	5-22(.35-1.5)					