Sump Pump Pressure Switch

Sump pumps play a pivotal role in keeping buildings dry. To avoid flooding, it's crucial that a sump pump turns on at the correct time in order to flush water out. This action must be triggered by a switch. Presair utilizes diaphragm pressure switches to monitor rising water levels and prompt a sump pump to action. These switches sense pressure against the diaphragm to accurately read how much water is present in a system. As the water level rises in a sump basin, the pressure pushing against the diaphragm builds within the switch. Therefore, the switch is preset to actuate at a specific water level. When the specified water level is reached, it will generate a precise pressure in the basin. The diaphragm is calibrated to complete a circuit at that exact moment and initiate the pump.

Presair switches are small and accurate. This makes them the perfect fit for a congested sump basin. Other switching options can be cumbersome and difficult to maneuver. But Presair's durable, precise, miniature-sized pressure switches help keep basements dry and people happy.

Pressure Switch Specifications

CURRENT RATING 21 Amps, 1HP @ 120VAC WORLD WIDE APPROVAL UL & CUL Recognized. File #E80254

MATERIAL Acetal Body/Acetal Mechanism, EPDM Rubber Diaphragm. Other diaphragm materials available, contact us!

PRESSURE RANGE 0.25 inches of water to 125 Psi Rising OPERATING TEMPERATURE -22°F to 150°F

See page 2 for more product details.

Styles and Variations:

MINIATURE, FACTORY SET



2.5" x 1.5" x 2"

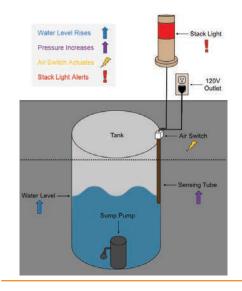
FIELD ADJUSTABLE



2" x 2"



Pressure Switch



Solution Diagram

Phone: (715) 831-6353 | Fax: (419) 818-0897 Altoona, WI 54720

Factory Set Pressure and Vacuum Switch

Tinytrol pressure and vacuum switches provide versatile and convenient sensing. Their miniature size and variety of connection styles for simple implementation into any system. These switches allow for simple electrical on/off control over pressure (0.25-65 Psi) and vacuum (consult factory). As pressure rises or falls, one contact opens as the other closes. This provides a perfect solution for monitoring, controlling, and notifying. Tinytrol Miniature Pressure and Vacuum Switches are preset at the factory to actuate at your specific requirements.

Presair air switches deliver critical benefits:

SAFE: Presair air switches deliver complete electrical isolation with zero voltage at the actuator to shock the user or spark an explosion.

ECONOMICAL:Presair air switching system costs are comparable or lower than conventional controls meeting the needs of

original equipment manufacturers.

ACCURATE: All switches are 100% tested with a 100,000+ cycle life.



TRV111E-20WR - Radial Mount with side spout 2"x 1.5"

General Specification:

RATING: 2 HP @ 240 VAC; 1HP @ 120 VAC

21 AMPS @ 250 VAC

Other ratings available up to 25 Amps.

Gold contacts available.

APPROVAL: UL Recognized, CUL Recognized. File #E80254

MATERIAL: Acetal Body/Acetal Mechanism

Silicone Rubber Diaphragm

Other material available, give us a call for more information.

FACTORY SET RANGE: Pressure switches have a preset range of 0.25 psi

to 65 psi.

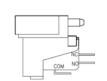
Please consult factory for vacuum.

OPERATING TEMPERATURE: -22°F to 150°F

BODY STYLE CONNECTIONS:



1/8" NPT, Center Air Spout - TN Style



Radial Mount, Side Air Spout - TR Style



TVP211E-2PR - Threaded Mount with center spout 2" x 2"



9/16"-18 UNF, Center Air Spout - TV Style

Factory Set Pressure & Vacuum Switches

Select from each column to configure your part number:

MOUNTING OPTIONS	ACTION	CONTACT FIGURATION	ELECTRICAL RATINGS	SPECIAL Multiple options available.
N 1/6 NPT, Center Air Spout (Fig. A)	P Pressure	1 SPDT	11) 21 Amp, 1 hp @ 125 VAC Standard	A ½" Mounting Thread w/ Flats
Radial Mount, Side Air Spout (Fig. B)		2 DPDT	16 5 Amp, Low Force (17 g) Long Distance Tubing (100 feet)Applications	l
Threaded Mount,Center Air Spout (Fig. C) *Not available for vacuum applications	V Vacuum	4 SPST (Normally Open)	17) 5 Amp, Regular Force (36 g) Long Distance Tubing (50 feet) Applications	E EPDM Diaphragm
			25) 25 Amp @ 240 VAC	K Black Bottom Housing

*Include the desired setpoint at the end of the part number, Pressure Rising (PR), Pressure Falling (PF), Water Rising (WR), or Water Falling (WF).





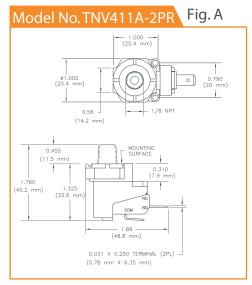


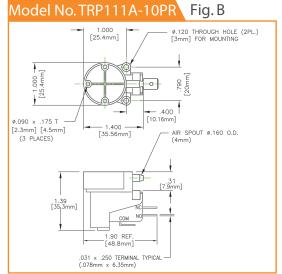


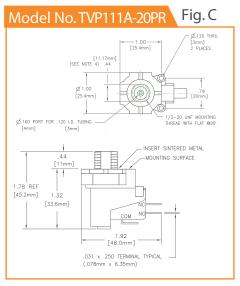


<u>TVP111A-20PR</u>*

*Many custom options available, give us a call for more information.







Adjustable Pressure & Vacuum Switches

These switches allow for simple electrical on/off control over pressures and vacuums. As pressure goes up, one contact opens as the other closes. This provides a perfect solution for monitoring, controlling, and notifying. All are field adjustable but can be preset at the factory if preferred. Dual switches are also available, factory set to operate two separate microswitches at different pressure or vacuum settings. These switches come in multiple body styles, providing the necessary versatility for air hose connections.

Presair adjustable switches deliver critical benefits:

SAFE: Presair switches deliver complete electrical isolation with zero voltage at the actuator to shock the user or spark an explosion.

ECONOMICAL: Presair's switching system costs are comparable or

lower than digital controls meeting the needs of

original equipment manufacturers.

ACCURATE: All switches are 100% tested to meet 100,000+ cycle life.

General Specification:

1 HP @ 125 VAC; 2 HP @ 250 VAC RATING:

21 AMPS @ 250 VAC

Other ratings available up to 25 Amps.

Gold contacts available.

APPROVAL: UL Recognized, CUL Recognized. File #E80254

MATERIAL: Acetal Body/Acetal Mechanism

Nitrile Rubber Diaphragm

Other material available, give us a call for more information.

Field adjustable or Factory Set

Pressure switch is adjustable with hex head set screw at the center of the microswitch. Vacuum switch is adjustable with

Phillips head screw on the microswitch carrier.

OPERATING TEMPERATURE: -22 to 150 degrees Fahrenheit

BODY STYLE CONNECTIONS: 9/16-18 Thread with Center Air Spout



Radial Mount with Side Air Spout



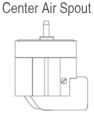


PR11120A- Radial Mount with Side Spout 1.75"x1.5"x2" SPDT with Dummy Switch

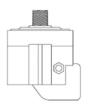


PM21120A - 9/16-18 Thread with Center Spout 2.5"x1.5"x2" DPDT = 2 SPDT Switches

Radial Mount with



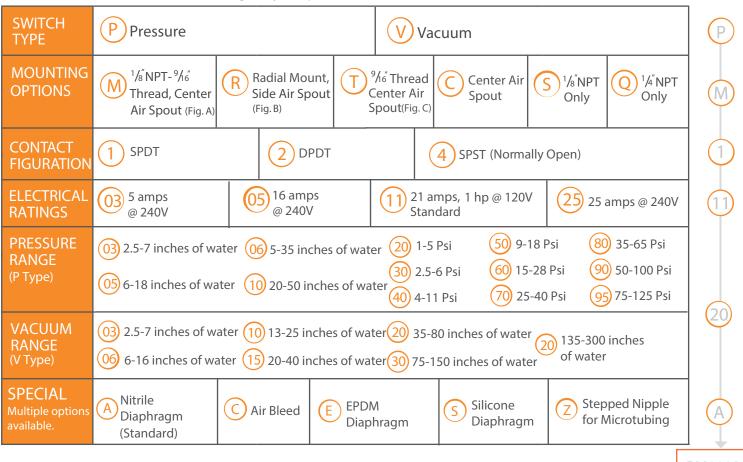
1/8" NPT with Center Air Spout



PRESAIR SWITCHES ARE DESIGNED & MANUFACTURED IN ALTOONA, WI, U.S.A.

Adjustable Pressure & Vacuum Switches

Select from each column to configure your part number:



*Many custom options available, give us a call for more information.

PM11120A

