

## SPECIALTY VALVES

### DESCRIPTION

The R-K APS is an adjustable pressure switch with a multitude of uses. This switch may be used to open or close valves, start or stop pumps, sound alarms or limit pressure in tanks. The switch can be wired either normally open or normally closed for either rising pressure or falling pressure. This patented switch is designed so there is no metal contact with the fluid. A Viton diaphragm is used to isolate corrosive chemical fluids from the switching mechanism. It has a 1/2" FPT conduit inlet and 1/2" FPT mounting on the bottom center.

All pressure switches are factory preset and are adjustable to your needs by rotating the top set screw. A manual override button can be used to re-set the switch.

## R-K APS SERIES ADJUSTABLE PRESSURE SWITCH



### KEY FEATURES

- **Adjustable Operation:** It can be adjusted to open or close valves, start or stop pumps, or activate alarms.
- **Pressure Sensitivity:** It can be used for either rising or falling pressure.
- **Corrosion Isolation:** A patented design uses a Viton diaphragm to isolate the switching mechanism from corrosive fluids.
- **Mounting:** It has a 1/2" FPT conduit inlet and a 1/2" FPT mounting on the bottom center.
- **Adjustability:** All pressure switches are factory pre-set but are adjustable by the user by rotating the top set screw.

### VALVE BODY MATERIALS:

- PVC Type 1, Grade 1
- Polypropylene
- PVDF

#### Seal Options

- EPDM,
- VITON,
- KALREZ

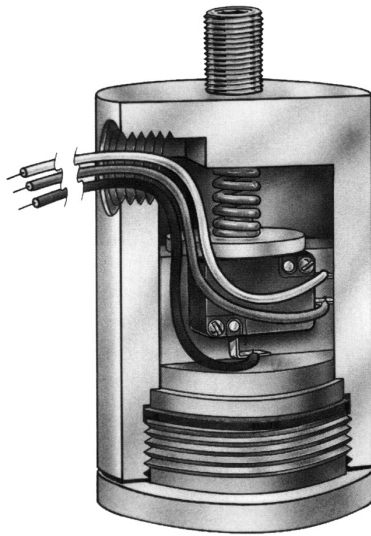
### SPECIFICATIONS

#### Electric switch:

- 1 HP, 2 HP (125/250VAC), UL Approved
- 25 Amps (125VAC), UL Approved

#### APS Type:

- Type 1: Adjustable from 5-40 PSI
- Type 2: Adjustable from 40-100 PSI



**PATENT NO: 4,317,971**

## PRESSURE & TEMPERATURE RATINGS:

**Operating Pressure Range:**  
0 to 150 PSIG

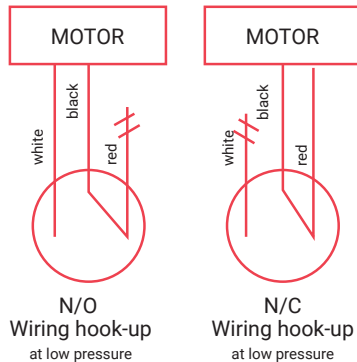
### Temperature Range

- 0 to 170°F for PVC
- 0 to 180°F for POLYPRO
- 0 to 280°F for PVDF

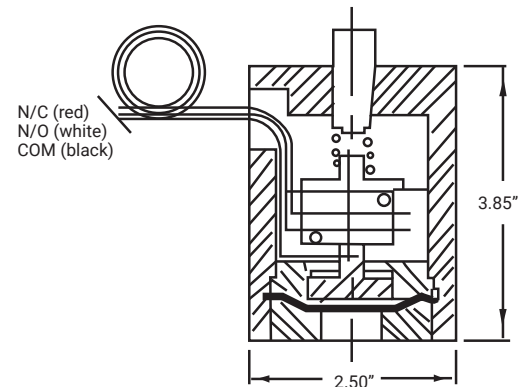
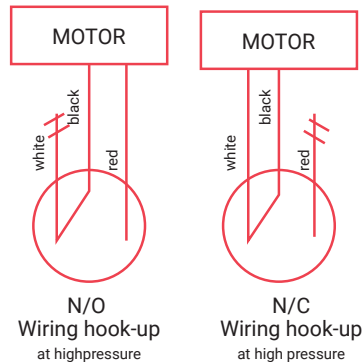
## ORDER INFORMATION

Type	Pressure Range (PSI)	Part Number	Material
Type 1	5–40	APS-801 A	PVC
		APS-801 C	POLYPRO
		APS-801 E	PVDF
Type 2	40–100	APS-801 B	PVC
		APS-801 D	POLYPRO
		APS-801 F	PVDF

Mode 'A': Rising pressure to activate switch.



Mode 'B': Falling pressure to activate switch



## INSTALLATION INSTRUCTIONS

The wiring is color-coded: N/C (Normally Closed) is Red, N/O (Normally Open) is White, and COM (Common) is Black. The document shows wiring diagrams for two modes of operation:

- Mode 'A': Rising pressure to activate switch.
- Mode 'B': Falling pressure to activate switch.

### TO SET THE PRESSURE

The switch is factory pre-set (20 PSI for Type 1 and 60 PSI for Type 2). To adjust, rotate the top set screw:

- Clockwise: To increase pressure.
- Counterclockwise: To decrease pressure.