

Need a reliable pressure switch?


Try the industry  
standard for  
pressure switches.



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by Schneider Electric

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 Electric

The Schneider Electric, Square D® brand of pressure switches is the most trusted brand in residential, commercial and industrial pumping applications. For over 60 years, Square D pressure switches continue to meet the needs of our customers.

## > 9013FSG Series of Pressure Switches

9013FSG Pumptrol® Pressure Switches provide proven reliability in an easy, simple, compact installation. The universally accepted and recognized design is easy to wire, features drift proof cut-in and cut-out settings, has visible vertical contacts which are easy to inspect. No manufacturer offers a broader line of water pump switches to meet your pumping needs.

### Higher pressure settings now standard on 9013FSG

When you need a higher pressure setting for longer runs in deep wells, the 9013FSG now controls pressures up to 80 PSI. The standard 9013FSG now has higher pressure ranges with settings up to 80PSI cut-out. To order the higher pressure settings, see catalog number 9013FSG52J33 (50–70PSI) and 9013FSG52J25 (60–80PSI).

### NEMA 3R rated pressure switches

Schneider Electric provides the 9013FSG, 9013FYG and the 9013FTG with NEMA 1 and NEMA 3R rated enclosures. The 9013FTG is the commercial pressure switch with non-adjustable differential and the FYG offers a higher horsepower. Features of the NEMA 3R products include:

- Rain-tight enclosures suitable for outdoor usage
- Thicker zinc plating on the metal frame for greater resistance to corrosion
- A plastic cover certified to protect against damage from rain, sleet and ice formation

### Narrow differential pressure switches

Schneider Electric provides narrow differential switches including 6-20 PSIG differential switches. Choose from the 9013FSG42/49 or higher HP 9013FYG42/49. Also available is the 9013FRG with reverse action. The 9013FRG pressure switch is non-adjustable differential with 6-14 PSIG cut-in and 1-11 PSIG cut-out ranges.



### Manual on/off switch

The 9013 series offers an optional on/off switch for the pressure switch. This allows you to manually turn on and off your pump system for extended periods of time.

### Automatic low pressure/water cut-off

If system pressure is lost for any reason, a low water condition for example, the automatic lower pressure/water cut-off feature will open the contacts, turning off the pump.

### Pulsation plug

Pulsation plugs are available to control pressure, due to increased start up pressure, generated by the high speed jet pump motors or by valves prone to a surge in pressure.

### Bayonet pressure connector

Expensive shielded electrical cable between the jet pump motor and controller can be eliminated by mounting the pressure switch directly on the jet pump motor and utilizing a barbed bayonet (straight or 90° elbow) fluid connection.

### Optional features available for the 9013 standard action product line

Many optional features are available to increase the functionality and performance of your Schneider Electric pressure switches. See the table below to identify the feature which you may need for your application.

		9013FSG standard action, fully-adjustable differential	9013FTG standard action, non-adjustable differential	9013FYG standard action, fully-adjustable with higher HP rating
<b>M1</b>	Maintained manual on/off lever (auto-off)	Yes	No	Yes
<b>M4</b>	Low pressure cut-off (auto-start-off)	Yes	No	Yes
<b>B7</b>	One rubber grommet, export only	Yes	Yes	Yes
<b>B8</b>	Two rubber grommets, export only	Yes	Yes	Yes
<b>T</b>	1/2" conduit bushing per the National Electric Code® (NEC®)	Yes	Yes	Yes
<b>Q1</b>	Plastic flange with integral molded pressure	Yes	No	Yes
<b>P*</b>	Optional pulsation plug	Yes	Yes	Yes
<b>10**</b>	Bayonet (barbed) pressure connector	Yes	Yes	Yes
<b>20**</b>	90° elbow with 1/4" bayonet	Yes	Yes	Yes
<b>Z22</b>	Black cover	Yes	Yes	Yes
<b>U</b>	Slip-on connector, load	Yes	Yes	Yes
<b>U2</b>	Slip-on connector, line and load	Yes	Yes	Yes

\* Nylon pulsation plug can be field installed on types having 1/4" NPSF internal connector. Part number 1530S6G1 is one bag of 50 plugs

\*\* Change fluid connection code in the product part

– 1/4" barbed bayonet (example: 9013FSG10)

– 90° elbow 1/4" barbed bayonet (example: 9013FSG20)

### Explanation of a part number (example: 9013FSG2J21P)\*\*\*

	9013	+	FS	+	G	+	2	+	J21	+	P
	Class		Type		Enclosure		Fluid Connection		Pressure Codes		Forms
<b>Type</b>	FS = Standard-adjustable differential FY = Higher HP with adjustable differential FT = Non-adjustable differential										
<b>Enclosure</b>	G = NEMA 1 W = NEMA 3R										
<b>Fluid Connection</b>	1 = 1/8" NPSF internal threads 2 = 1/4" NPSF internal 9 = 1/4" NPT external 10 = 1/4" bayonet, barbed 20 = 90° elbow, 1/4" bayonet 4 = Narrow differential 42† = 9-30 PSIG cut-out, 3-10 cut-in 49† = 9-30 PSIG cut-out, 3-10 cut-in 52 = 25-80 PSIG cut-out, 10-60 cut-in 59 = 25-80 PSIG cut-out, 10-60 cut-in Others available										
<b>Pressure Codes</b>	J20 = 20-40 PSI J21 = 30-50 PSI J24 = 40-60 PSI J25 = 60-80 PSI J33 = 50-70 PSI J34 = 55-85 PSI J99 = Specify range Others available										
<b>Forms</b>	M1 = Maintained manual cut-off lever M4 = Low pressure cut-off B7 = One rubber grommet B8 = Two rubber grommets Q8 = Plastic flange P = Pulsation plug T = 1/2" conduit bushing on left U = Slip-on connector, load U2 = Slip-on connector, line and load Z22 = Black cover										

\*\*\* Use chart to interpret catalog number only

† 2 and 9 are the fluid connections



# > 9013FRG Series of Pressure Switches

## Reverse action pressure switches

Schneider Electric's reverse action pressure switches fit the needs of your specialty pumping applications. These reverse action pressure switches are available with normally open (N.O.) contacts, thus making them the perfect solution for applications such as:

### Pump-out application

Applications designed to empty a tank utilize these reverse action pressure switches to start a pump until the pressure/fluid level is reduced to the desired point.

### Pump shut down application

The 9013FRG reverse action pressure switches can be wired in series with the FSG standard action normally closed (N.C.) pressure switches to automatically shut off pumps in case of emergency such as power loss or when a pipe bursts.

### Low level alarm application

The 9013FRG reverse action pressure switch can be set to trigger an alarm based on the low pressure conditions.

### Manual on/off switch

The 9013 series offers an optional on/off lever for the pressure switch. This allows you to manually turn on and off your pump system for extended periods of time such as when you are going to be away or have remote locations not regularly in use.

### Automatic low pressure/water cut-off

If system pressure is lost for any reason, a low water condition for example, the automatic low pressure/water cut-off feature will open the contacts, turning off the pump. The low water cut off functions normally and cycles the pump per your typical demands, however, if the system pressure is lost for any reason, the switch contacts open, turning off the pump.

## Optional features available for the 9013 reverse action product line

Many optional features are available to increase the functionality and performance of your Schneider Electric pressure switches. See the table below to identify the feature which you may need for your application.

		9013FRG reverse action, fully-adjustable
<b>H</b>	One N.O., one N.C. contact	Yes
<b>M3</b>	One N.O., one N.C. contact	Yes
<b>M5</b>	Maintained manual cut-in lever (auto-on)	Yes
<b>B7</b>	One rubber grommet, export only	Yes
<b>B8</b>	Two rubber grommets, export only	Yes
<b>T</b>	1/2" conduit fitting per the NEC. With 1/4" long threads – on right hand side, rear facing	Yes
<b>Q1</b>	Plastic flange with integral molded pressure connection. (max. temp 120°F, max. pressure 80 PSI)	Yes
<b>P</b>	Optional Pulsation plug*	Yes
<b>Z22</b>	Black cover	Yes

\* Nylon pulsation plug can be field installed on types having 1/4" NPSF internal connector. Part number 1530S6G1 is one bag of 50 plugs.

## Explanation of a part number (example: 9013FRG12J51)\*\*\*

	9013	+	FS	+	G	+	12	+	J51	+	
	Class		Type		Enclosure		Fluid Connection		Pressure Codes		Forms
<b>Type</b>			R = Reverse action								
<b>Enclosure</b>			G = NEMA 1								
<b>Fluid Connection</b>			2 = 1/4" NPSF internal				9 = 1/4" NPT external				
			3 = 3/8" NPSF internal				Others available				
			8 = 1/4" flare								
<b>Pressure Codes</b>			J19 = 22-16 PSI				J35 = 50-30 PSI				
			J22 = 22-12 PSI				J51 = 100-80 PSI				
			J23 = 40-20 PSI				J99 = Specify range				
			J32 = 80-60 PSI				Others available				
<b>Poles</b>			Various numerals signify a 1-pole or a 2-pole unit at different pressure ranges. May or may not require a numeral in combination with the fluid connection.								
<b>Forms</b>			H = 1 N.O. and 1 N.C.				M3 = Momentary manual cut-in lever				
			M5 = Maintained manual cut-in lever				Q8 = Plastic flange				
			P = Pulsation plug				T = 1/2" conduit bushing on left				
			Z22 = Black cover								

\*\*\* Use chart to interpret catalog number only.

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