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# The Industry Standard

## The 9013 Series of Pressure Switches



Schneider Electric's Square D® brand of Pumptrol® pressure switches has set the standard for reliability, efficiency and durability. As the most trusted brand in residential, commercial and industrial pumping applications, Square D pressure switches continue to meet the daily needs of our customers as they have done for over 60 years.

Schneider Electric provides the 9013FSG, 9013FYG and 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:

- 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.

### Higher HP Pressure Switches

Need a larger HP motor for longer runs in deep wells? Then look to the 9013FYG or 9013GHG pressure switches. These switches directly control all types of pumps up to 5 HP and can be used in the control circuit of a magnetic starter for even larger pumps.

### Manual On/Off Switch

The 9013 series of pressure switches offer an optional on/off 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 cutoff feature will open the contacts, turning off the pump.

### Optional Rubber Grommets and Conduit Bushings

To make the installation more convenient Schneider Electric can supply rubber grommets or conduit bushings for use with the pressure switches. Rubber grommets can be used as a strain relief for the switch wiring. (For export only.)

### Pulsation Plug

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

### Bayonet Pressure Connector

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

## Optional Features Available for the 9013 FSG and FYG 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	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>	Rubber grommets (single) export only	Yes	Yes	Yes
<b>B8</b>	Rubber grommets (double) export only	Yes	Yes	Yes
<b>T</b>	1/2" conduit fitting per the National Electric Code® (NEC®)	Yes	Yes	Yes
<b>T1</b>	1/2" conduit fitting per the National Electric Code (NEC)	Yes	Yes	Yes
<b>Q</b>	Salt water metal flange (1/4" NPSF internal only)	Yes	No	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 degree elbow with 1/4" bayonet	Yes	Yes	Yes
<b>Z22</b>	Black cover	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 degree elbow 1/4" barbed bayonet (example: 9013FSG20)

### Explanation of a Part Number (Sample: 9013FSG2J21P) \*\*\*

	<u>9013</u> Class	+	<u>F</u> Type	+	<u>G</u> Enclosure	+	<u>Fluid Connection</u>	+	<u>Pressure Codes</u>	+	<u>Forms</u>
<b>Type</b>	S = Standard adjustable differential		T = Non adjustable differential		Y = Higher HP adjustable differential		R = Reverse action (see reverse document)				
<b>Enclosure</b>	G = NEMA 1		W = NEMA 3R								
<b>Fluid Connection</b>	1 = 1/8" NPSF internal threads		Others available		2 = 1/4" NPSF internal		4 = Narrow differential				
	9 = 1/4" NPT external		42* = 9-30 PSIG cut-out, 3-10 cut-in		10 = 1/4" bayonet, barbed		49* = 9-30 PSIG cut-out, 3-10 cut-in				
	20 = 90 degree elbow, 1/4" bayonet		*2 and 9 are the fluid connections								
<b>Pressure Codes</b>	J20 = 20-40 PSI		J33 = 50-70 PSI		J21 = 30-50 PSI		J34 = 55-85 PSI		Others available		
	J24 = 40-60 PSI		J99 = Specify range								
<b>Forms</b>	M1 = Maintained manual cut-off lever		Q8 = Plastic flange		M4 = Low pressure cut-off		P = Pulsation plug				
	B7 = Single rubber grommet		T = 1/2" conduit bushing on left		B8 = Two rubber grommets		T1 = 1/2" conduit bushing on right				
	Q = Metal saltwater flange		Z22 = Black cover								

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

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