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## Commercial Pressure Switches

### Type F-PUMPTROL® Water Pump Pressure Switches-Class 9013



- Designed for the control of electrically driven water pumps.
- Type FSG is the standard water pump switch, suitable for all types of pumps: jets, submersible, reciprocating, etc.
- Type FYG is designed to meet higher horsepower and pressure requirements.
- Type FRG is reverse acting: contacts open on falling pressure.
- Diaphragm actuated.
- See page reference below for the following:

Electrical Ratings [20-28](#)Dimensions [20-9](#)Repair Parts Kits [20-6](#)

## Selection Tables

## Standard Action: Contacts Open On Rising Pressure

Cut-Out Range (PSIG)	Approximate Adjustable Differential (PSIG)	Cut-in Range (PSIG)	Pressure <sup>a</sup> Connection	2 Pole			
				NEMA Type 1	Price	NEMA Type 3R <sup>a</sup>	Price
20-65	15-30	10-45	1/8" NPSF Internal	<a href="#">FSG1</a>	\$19.30	<a href="#">FSW1</a>	\$22.40
			1/4" NPSF Internal	<a href="#">FSG2</a>	17.60	<a href="#">FSW2</a>	20.70
			1/4" NPT External	<a href="#">FSG9</a>	17.60	<a href="#">FSW9</a>	20.70
			1/4" Bayonet (barbed)	<a href="#">FSG10</a>	17.60	<a href="#">FSW10</a>	20.70
			90° Elbow 1/4" Bayonet	<a href="#">FSG20</a>	19.30	<a href="#">FSW20</a>	22.40
20-50	10-30	10-30	1/4" NPSF Internal	<a href="#">FSG22</a>	22.40	<a href="#">FSW22</a>	25.50
20-60	10-30	10-45	1/4" NPT External	<a href="#">FSG29</a>	22.40	<a href="#">FSW29</a>	25.50
9-30	6-20	3-10	1/4" NPSF Internal	<a href="#">FSG42</a>	22.40	<a href="#">FSW42</a>	25.50
9-30	6-20	3-10	1/4" NPT External	<a href="#">FSG49</a>	22.40	<a href="#">FSW49</a>	25.50
34-65	15-30	19-45	(FSG120 WITH FORM M4)				
25-80	20-30	5-60	1/8" NPSF Internal	<a href="#">FYG1</a>	27.20	<a href="#">FYW1</a>	30.30
			1/4" NPSF Internal	<a href="#">FYG2</a>	25.70	<a href="#">FYW2</a>	28.80
			1/4" NPT External	<a href="#">FYG9</a>	25.70	<a href="#">FYW9</a>	28.80
			1/4" Bayonet (barbed)	<a href="#">FYG10</a>	25.70	<a href="#">FYW10</a>	28.80
			90° Elbow 1/4" Bayonet	<a href="#">FYG20</a>	27.20	<a href="#">FYW20</a>	30.30
39-80	20-30	19-60	(FYG120 WITH FORM M4)				
20-50	10-30	10-30	1/4" NPSF Internal	<a href="#">FYG22</a>	30.40	<a href="#">FYW22</a>	33.50

20-60	10-30	10-45	1/4" NPT External	<a href="#">FYG29</a>	30.40	<a href="#">FYW29</a>	33.50
9-40	6-20	3-10	1/4" NPSF Internal	<a href="#">FYG42</a>	30.40	<a href="#">FYW42</a>	33.50
9-40	6-20	3-10	1/4" NPT External	<a href="#">FYG49</a>	30.40	<a href="#">FYW49</a>	33.50

Reverse Action: Contacts Open On Falling Pressure

Cut-in Range (PSIG)	Approximate Adjustable Differential (PSIG)	Cut-Out Range (PSIG)	Pressure Connection	1-Pole		2-Pole	
				Type	Price	Type	Price
23-65	15-30	8-45	1/4" NPSF Internal	<a href="#">FRG12</a>	\$30.40	<a href="#">FRG2</a>	\$32.10
			3/8" NPSF Internal	<a href="#">FRG13</a>	30.40	<a href="#">FRG3</a>	32.10
			1/4" Flare	<a href="#">FRG18</a>	30.40	<a href="#">FRG8</a>	32.10
			1/4" NPT External	<a href="#">FRG19</a>	30.40	<a href="#">FRG9</a>	32.10
10-45	6-20	4-25	1/4" NPSF Internal	<a href="#">FRG32</a>	33.50	<a href="#">FRG22</a>	35.20
			3/8" NPSF Internal	<a href="#">FRG33</a>	33.50	<a href="#">FRG23</a>	35.20
			1/4" Flare	<a href="#">FRG38</a>	33.50	<a href="#">FRG28</a>	35.20
			1/4" NPT External	<a href="#">FRG39</a>	33.50	<a href="#">FRG29</a>	35.20
6-14	5 Non- Adjustable	1-9	1/4" NPSF Internal	<a href="#">FRG52</a>	33.50	<a href="#">FRG42</a>	35.20
			3/8" NPSF Internal	<a href="#">FRG53</a>	33.50	<a href="#">FRG43</a>	35.20
			1/4" Flare	<a href="#">FRG58</a>	33.50	<a href="#">FRG48</a>	35.20
			1/4" NPT External	<a href="#">FRG59</a>	33.50	<a href="#">FRG49</a>	35.20
40-100	20-30	20-75	1/4" NPSF Internal	<a href="#">FRG72</a>	30.40	<a href="#">FRG62</a>	32.10
			3/8" NPSF Internal	<a href="#">FRG73</a>	30.40	<a href="#">FRG63</a>	32.10

			1/4" Flare	<a href="#">FRG78</a>	30.40	<a href="#">FRG68</a>	32.10
65-150	30-45	35-120	1/4" NPSF Internal	<a href="#">FRG92</a>	30.40	<a href="#">FRG82</a>	32.10
			3/8" NPSF Internal	<a href="#">FRG93</a>	30.40	<a href="#">FRG83</a>	32.10
			1/4" Flare	<a href="#">FRG98</a>	30.40	<a href="#">FRG88</a>	32.10
			1/4" NPT External	<a href="#">FRG99</a>	30.40	<a href="#">FRG89</a>	32.10

<sup>a</sup> Must be mounted in vertical position to maintain enclosure rating.

#### Special Features And Modifications For Type FSG, FYG & FRG Devices

Description	Applies to	Form Letter	Price Addition
Standard Pack of 20 Devices per box	All Type F	C2O	N/C
Pilot Light--Indicates Switch Contacts Closed	FSG, FYG	G5 <sup>b</sup>	\$ 8.10
One Normally Open-One Normally Closed Contact	FRG 2-Pole Only	H	6.40
Maintained Manual Cut-Out Lever (AUTO-OFF)	FSG, FYG	M1	3.30
Momentary Manual Cut-In Lever (AUTO-START)	FRG2-59 Only	M3	3.30
Low Pressure Cut-Off (AUTO-START-OFF) Operates at Approximately 10 PSIG Below Cut-in and will turn off the pump	FSG, FYG	M4	5.60
Maintained Manual Cut-in Lever (AUTO-ON)	FRG2-59 Only	M5	3.30
Pulsation Plug (Standard on FSG-4 and FYG-4)	FRG, FSG, FYG	p <sup>c</sup>	.47
Salt Water Flange (1/4 NPSF Internal Only)	All Type F	Q	16.00
Plastic Flange (max. temp. 120°F) (max. pressure 80 psi)	FSG, FYG, FRG	Q8	7.75
	1/4" NPSF Internal Only		
1/2" Conduit Bushing--1/2" Long Thread--on Left	All Type F	T	2.60
1/2" Conduit Bushing--1/2" Long Thread--on Right	All Type F	T1	2.60
Slip-On Connectors (Load Side Terminals Only)	FSG, FYG	U	.31

Slip-On Connectors (Line and Load Terminals)	FSG, FYG	U2	.62
Black Cover	FSG, FYG	Z22	N/C

<sup>b</sup> Can be field installed. Nameplate should then be marked with the Form letter and maintenance and ordering records corrected.

<sup>c</sup> Nylon pulsation plug can be field installed on types having 1/4" NPSF Internal connector. Part number 1530S6G1 is one bag of 50 plugs.

#### Pressure Codes (Reverse action)

Below is the pressure code table for reverse action devices. Existence of a code does not imply that that code is available for any or all devices.

Settings	Code
8.5-5.5 PSI	J17
10-5 PSI	J36
22-12 PSI	J22
22-16 PSI	J19
35-20 PSI	J70
40-20 PSI	J23
50-30 PSI	J35
80-60 PSI	J32
100-80 PSI	J51
150-120 PSI	J64
Specify other pressure	J99

#### Pressure Codes

Below is the pressure code table for standard action devices. Existence of a code does not imply that that code is available for any or all devices.



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Settings	Code
5-21 PSI	J15
8-20 PSI	J16
20-40 PSI	J20
20-50 PSI	J18
30-50 PSI	J21
40-60 PSI	J24
50-70 PSI	J33
55-85 PSI	J34
60-80 PSI	J25
Specify other pressure	J99

#### Ordering Information

1. Specify Class 9013 Type F.
2. Select pressure code from Pressure Code Table at right and add code designation to end of type number. Be sure that pressure code falls within the limits of the device as shown in the device listings.
3. If special features are desired, add the appropriate Form letter to the Class and Type. Arrange Form letters in alphabetical sequence when ordering more than one special feature.
4. Place packaging code in alphabetical sequence with other forms when ordering.  
For standard pack of 20 devices  
per box C20<sup>j</sup>  
For individual packaged devices  
leave blank<sup>v</sup>

**Note:** If no packaging code is indicated, devices will be shipped individually packaged.

	
File E12158 CCN NKPZ	File LR25490

For additional information, reference Catalog [#9013CT9701R8/98](#).

CP7 <sup>j</sup>		CP7I <sup>v</sup>		Discount Schedule
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