

Commercial Pressure Switches

Class 9013, Types FSG, FYG, FRG – Selection and Modifications

Types FSG, FYG PUMPTROL® Water Pump Pressure Switches

Standard Action: Contacts Open On Rising Pressure



| Cut-Out Range (PSIG) | Approximate Adjustable Differential (PSIG) | Cut-in Range (PSIG) | Pressure Connection | 2 Pole | |
|----------------------|--|---------------------|------------------------|-------------|---------------|
| | | | | NEMA Type 1 | NEMA Type 3R■ |
| 20-65 | 15-30 | 5-45 | 1/8" NPSF Internal | FSG1 | FSW1 |
| | | | 1/4" NPSF Internal | FSG2 | FSW2 |
| | | | 1/4" NPT External | FSG9 | FSW9 |
| | | | 1/4" Bayonet (barbed) | FSG10 | FSW10 |
| | | | 90° Elbow 1/4" Bayonet | FSG20 | FSW20 |
| 20-50 | 10-30 | 10-30 | 1/4" NPSF Internal | FSG22 | FSW22 |
| 20-60 | 10-30 | 10-45 | 1/4" NPT External | FSG29 | FSW29 |
| 9-30 | 6-20 | 3-10 | 1/4" NPSF Internal | FSG42 | FSW42 |
| 9-30 | 6-20 | 3-10 | 1/4" NPT External | FSG49 | FSW49 |
| 34-65 | 15-30 | 19-45 | (FSG1-20 WITH FORM M4) | | |
| 25-80 | 20-30 | 5-60 | 1/8" NPSF Internal | FYG1 | FYW1 |
| | | | 1/4" NPSF Internal | FYG2 | FYW2 |
| | | | 1/4" NPT External | FYG9 | FYW9 |
| | | | 1/4" Bayonet (barbed) | FYG10 | FYW10 |
| | | | 90° Elbow 1/4" Bayonet | FYG20 | FYW20 |
| 39-80 | 20-30 | 19-60 | (FYG1-20 WITH FORM M4) | | |
| 20-50 | 10-30 | 10-30 | 1/4" NPSF Internal | FYG22 | FYW22 |
| 20-60 | 10-30 | 10-45 | 1/4" NPT External | FYG29 | FYW29 |
| 9-40 | 6-20 | 3-10 | 1/4" NPSF Internal | FYG42 | FYW42 |
| 9-40 | 6-20 | 3-10 | 1/4" NPT External | FYG49 | FYW49 |

■ Must be mounted in vertical position to maintain enclosure rating.

Pressure Codes

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

| 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

- Specify Class 9013 Type FSG, FYG, or FYG.
- Select pressure code from Pressure Code Table 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.
- 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.
- Place packaging code at end of sequence with other forms when ordering.

For standard pack of 20 devices per box C20

For individual packaged devices leave blank

Example: 9013FSG2J21MPU2C20

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

Commercial Pressure Switches Class 9013, Types FSG, FYG, FRG – Selection and Modifications

Type FRG PUMPTROL® Water Pump Pressure Switches

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 | Type |
| 23-65 | 15-30 | 8-45 | 1/4" NPSF Internal | FRG12 | FRG2 |
| | | | 3/8" NPSF Internal | FRG13 | FRG3 |
| | | | 1/4" Flare | FRG18 | FRG8 |
| | | | 1/4" NPT External | FRG19 | FRG9 |
| 10-45 | 6-20 | 4-25 | 1/4" NPSF Internal | FRG32 | FRG22 |
| | | | 3/8" NPSF Internal | FRG33 | FRG23 |
| | | | 1/4" Flare | FRG38 | FRG28 |
| | | | 1/4" NPT External | FRG39 | FRG29 |
| 6-14 | 5 Non-Adjustable | 1-11 | 1/4" NPSF Internal | FRG52 | FRG42 |
| | | | 3/8" NPSF Internal | FRG53 | FRG43 |
| | | | 1/4" Flare | FRG58 | FRG48 |
| | | | 1/4" NPT External | FRG59 | FRG49 |
| 40-100 | 20-30 | 20-75 | 1/4" NPSF Internal | FRG72 | FRG62 |
| | | | 3/8" NPSF Internal | FRG73 | FRG63 |
| | | | 1/4" Flare | FRG78 | FRG68 |
| | | | 1/4" NPSF Internal | FRG92 | FRG82 |
| 65-150 | 30-45 | 35-120 | 3/8" NPSF Internal | FRG93 | FRG83 |
| | | | 1/4" Flare | FRG98 | FRG88 |
| | | | 1/4" NPSF Internal | FRG99 | FRG89 |
| | | | 1/4" NPT External | | |

Pressure Codes (Reverse action)

Below is the pressure code table for reverse action devices. Existence of a code does not imply that the 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 |

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

| Description | Applies to | Form Letter |
|---|--|-------------|
| Standard Pack of 20 Devices per box | All Type F | C20 |
| Pilot Light - Indicates Switch Contacts Closed | FSG, FYG | G5★ |
| One Normally Open-One Normally Closed Contact | FRG 2 Pole Only | H |
| Maintained Manual Cut-Out Lever (AUTO-OFF) | FSG, FYG | M1 |
| Momentary Manual Cut-In Lever (AUTO-START) | FRG2-59 Only | M3 |
| Low Pressure Cut-Off (AUTO-START-OFF) Operates at Approximately 10 PSIG Below Cut-in and will turn off the pump | FSG, FYG (Types 1-20 only) | M4 |
| Maintained Manual Cut-in Lever (AUTO-ON) | FRG2-59 Only | M5 |
| Pulsation Plug (Standard on FSG-4 and FYG-4) | FRG, FSG, FYG | P♦ |
| Salt Water Flange (1/4" NPSF Internal Only) | All Type F | Q |
| Plastic Flange (max. temp. 120°F) (max. pressure 80 psi) | FRG, FSG, FYG 1/4" NPSF Internal Only | Q8 |
| 1/2" Conduit Bushing - 1/2" Long Thread - on Left | All Type F | T |
| 1/2" Conduit Bushing - 1/2" Long Thread - on Right | All Type F | T1 |
| Slip-On Connectors (Load Side Terminals Only) | FSG, FYG | U |
| Slip-On Connectors (Line and Load Terminals) | FSG, FYG | U2 |
| Black Cover | FSG, FYG | Z22 |

- ★ Can be field installed. Nameplate should then be marked with the Form letter and maintenance and ordering records corrected.
- ♦ Nylon pulsation plug can be field installed on types having 1/4" NPSF Internal connector. Part number 1530-S6-G1 is one bag of 50 plugs

