

# FS-500 Series – Low Cost Units for Threaded Plastic Piping

**Flow Rate Settings:** 0.25 GPM to 5.0 GPM  
**Port Size:** 3/4" NPT  
**Primary Construction Material:** Polypropylene  
**Setting Type:** Fixed

The FS-500 offers low cost flow monitoring with a variety of switch actuation points and low pressure drop. All wetted parts are polypropylene or stainless steel, making this switch ideal for a wide range of chemical and temperature requirements. The materials are also NSF or FDA approved for potable water treatment applications including chlorinators, purifiers and heaters. The FS-500 is ideal for equipment cooling including welders, lasers, etc. A J-box version with a 5 amp relay is also available for direct control of higher electrical loads, such as chlorinator pumps.

## Specifications

<b>Wetted Materials*</b>	
<b>Housing, Bonnet, Shuttle, Shuttle Cap</b>	Polypropylene, Hydrolytically Stable
<b>O-Ring</b>	Viton® or Buna N
<b>Spring</b>	316 Stainless Steel
<b>Retaining Clip</b>	PH 15-7 Mo Stainless Steel
<b>Operating Pressure, Maximum</b>	100 PSIG (6.9 bar) @ +70°F (21°C)
	50 PSIG (3.4 bar) @ +180°F (82°C)
	40 PSIG (2.8 bar) @ +212°F (100°C)
<b>Operating Temperature, Maximum</b>	0° to 212°F (100°C)
<b>Set Point Accuracy</b>	± 20%
<b>Set Point Differential</b>	± 20% Maximum
<b>Switch**</b>	SPST, N.O. Pilot Duty 20 VA, 120-240 VAC or VDC
<b>J-Box with 5A Relay</b>	
<b>Coil</b>	120 VAC 50/60 Hz
<b>Contacts SPDT</b>	5A – 240 VAC Res
	1/3 HP – 120 VAC
	5A – 28 VDC Res.
<b>Inlet/Outlet Ports</b>	3/4" Female NPT
<b>Electric Termination</b>	
<b>Pilot</b>	No. 22 AWG, 24" Zip Cord Lead Wires
<b>J-Box</b>	6' PVC Cable

\* Materials of Construction are available for FDA or NSF Compliance.  
 \*\* See "Electrical Data" on Page X-5 for more information.

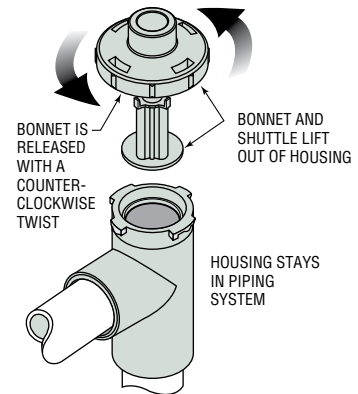
## How To Order – Standard Models

Specify Part Number based on switch actuation set point. Set points other than those listed are available as special order; contact GEMS with your requirements. Normally closed switch logic units available as special orders.

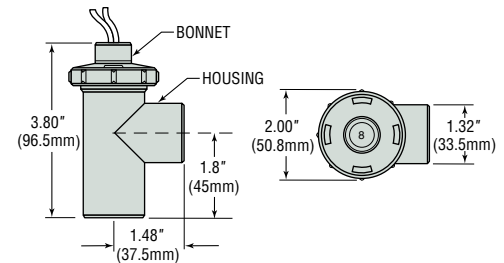
Switch Actuation Set Point GPM	Part Numbers	
	Pilot Duty	J-Box w/5A Relay
0.25	170231 ⚡	175901
0.50	170232 ⚡	175902
1.00	170233 ⚡	—
2.00	175117	—
2.50	170234 ⚡	—
5.00	170235 ⚡	—

Note: Use of 100 micron filtration is recommended.

⚡ – Stock Items.



## Dimensions



## Pressure Drop - Typical

