

# FS-380P Series – Industrial Strength Inline Plastic Flow Switch

**Flow Rate Settings:** 0.07 GPM to 2.00 GPM  
**Port Size:** 3/8" NPT Male and 1/4" Quick Disconnect (QDC) Male  
**Primary Construction Material:** Polypropylene  
**Setting Type:** Fixed

This rugged inline flow switch offers the same superior performance to non-clogging as its metal cousin (FS-380). The fixed set point and simple design make it a dependable switch. The FS-380P is an ideal choice for coolant applications requiring reliable flow detection in HVAC, semiconductor, welding, medical and other industries. 1/4" quick disconnect units have a host of snap-on mating adapters to fit most piping requirements.

## Specifications

|                               |  |
|-------------------------------|--|
| <b>Wetted Materials</b>       |  |
| <b>Housing</b>                | Glass Reinforced Polypropylene                                       |
| <b>Piston</b>                 | PPS Composite  |
| <b>Spring</b>                 | 316 Stainless Steel  |
| <b>O-Ring</b>                 | Fluorocarbon   |
| <b>Operating Pressure</b>     | 125 PSI (8.6 bar) @ 70°F (21°C),<br>50 PSI (3.4 bar) @ 212°F (100°C) |
| <b>Operating Temperature</b>  | 0°F to 212°F (-18°C to +100°C)                                       |
| <b>Set Point Accuracy</b>     | 20% of Set Point   |
| <b>Set Point Differential</b> | 20% Maximum  |
| <b>Switch*</b>                | SPST, 10VA, N.O. at no Flow  |
| <b>Electrical Termination</b> | 24" to 26" Polymeric Leads, 22 AWG                                   |
| <b>Filtration</b>             | 100 Micron   |
| <b>Approvals</b>              | CUL, RoHS  |

\*See "Electrical Data" on Page X-5 for more information.

## How To Order

Specify Part Number based on flow settings. Adapters for the 1/4" Quick Disconnect (QDC) Male unit are listed in the table at right.

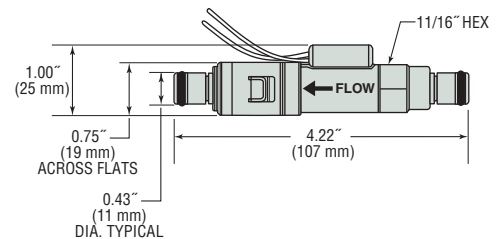
| Flow Settings<br>GPM | Part Numbers  |                |
|----------------------|---------------|----------------|
|                      | 3/8" NPT Male | 1/4" QDC Male* |
| 0.07                 | 216445** ⚡    | 216446** ⚡     |
| 0.15                 | 209876 ⚡      | 203206         |
| 0.25                 | 197081 ⚡      | 197091 ⚡       |
| 0.50                 | 197082 ⚡      | 197092         |
| 1.00                 | 197083 ⚡      | 197093         |
| 1.50                 | 197084 ⚡      | 197094 ⚡       |
| 2.00                 | 197085 ⚡      | 197095         |

\* See selection of adapters at right.  
 QDC = Quick Disconnect  
 \*\* Set point accuracy 0.06 to 0.1 GPM  
 ⚡ – Stock Items.

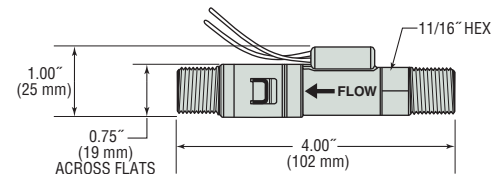


## Dimensions

**1/4" Quick Disconnect Male Adapter**  
 See table at bottom right for adapter Part Numbers.



## 3/8" NPT Port



Acetal Adapters for 1/4" Quick Disconnect Male Tube Fitting Units (180°F max.)

These adapters are available with or without an integral shut-off valve. The shut-off valve will stop line flow when the adapter is removed from the unit. Flow resumes when connected.



Typical shown: 1/4" NPT Male Pipe Thread with Shut-off Valve

| Description  | Part Numbers     |                     |
|--|------------------|---------------------|
|  | Straight Through | with Shut-Off Valve |
| 1/4" NPT Male Pipe Thread                              | 195787 ⚡         | 198063              |
| 1/4" BSPT Male Pipe Thread                             | 198064 ⚡         | 195788              |
| 3/8" NPT Male Pipe Thread                              | 198065 ⚡         | 198066              |
| 3/8" BSPT Male Pipe Thread                             | 198067           | 198068              |
| 1/4" O.D., .27" I.D. (6 mm O.D., 4.3 mm I.D.) Polytube | 198096 ⚡         | 198097              |
| 3/8" O.D., 1/4" I.D. (9.5 mm O.D., 6 mm I.D.) Polytube | 198099           | 198098              |
| 1/4" (6.4 mm) I.D. Barb                                | 198401 ⚡         | 198402              |
| 5/16" (7.9 mm) I.D. Barb                               | 198403 ⚡         | 198404              |
| 3/8" (9.5 mm) I.D. Barb                                | 198408 ⚡         | 198405              |
| 1/4" O.D. (6.4 mm) O.D. JG®                            | 198470 ⚡         | 198406              |
| 3/8" O.D. (9.5 mm) O.D. JG®                            | 198459 ⚡         | 198407              |

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