

# FS-380 Series – Compact Flow Switch for High Inline Pressures

**Flow Rate Settings:** 0.15 GPM to 2.00 GPM  
**Port Size:** Multiple  
**Primary Construction Material:** Brass or Stainless Steel  
**Setting Type:** Fixed

These rugged inline flow switches require 100 micron filtration and are less susceptible to clogging than other high-pressure inline flow switches. The one-piece magnetic PPS composite piston makes the FS-380 ideal for high-pressure applications such as industrial cleaning equipment. The FS-380 is also an excellent choice for semicon cooling applications where simple design and reliable operation are required.

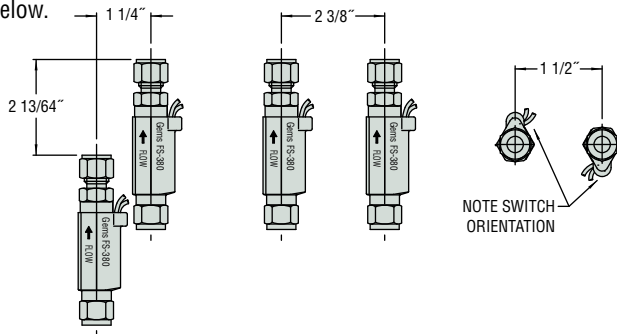
## Specifications

|                                    |   |
|------------------------------------|---|
| <b>Wetted Materials</b>            |   |
| <b>Housing</b>                     | Brass or 316 Stainless Steel                              |
| <b>Piston</b>                      | PPS Composite, Epoxy                                      |
| <b>Spring</b>                      | 316 Stainless Steel                                       |
| <b>O-Ring</b>                      | Fluorocarbon  |
| <b>Operating Pressure, Maximum</b> | 1500 PSI (107 bar); 500 PSI (34 bar) for 1/2" Barb Models |
| <b>Operating Temperature</b>       | -20°F to +275°F (-28.8°C to +135°C)                       |
| <b>Set Point Accuracy</b>          | ±20% Maximum  |
| <b>Set Point Differential</b>      | 20% Maximum   |
| <b>Switch*</b>                     | SPST, 20VA, N.O. at no Flow                               |
| <b>Electrical Termination</b>      | No. 22 AWG, 24" to 26" Polymeric leads                    |

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

## Spacing

To prevent sensor to sensor magnetic field interference, follow the spacing guidelines below.



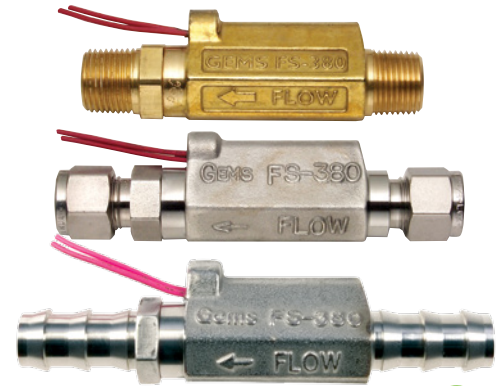
## How To Order – Standard Models

Specify Part Number based on flow settings.

| Flow Settings GPM <sup>1</sup> | Brass         |               | Stainless Steel |                  |           |
|--------------------------------|---------------|---------------|-----------------|------------------|-----------|
|                                | 1/2" NPT Male | 3/8" NPT Male | 3/8" NPT Male   | 3/8" Compression | 1/2" Barb |
| 0.15                           | —             | 181130 ⚡      | 193482 ⚡        | 212136           | 239693    |
| 0.25                           | 192562 ⚡      | 168432 ⚡      | 179992 ⚡        | 177592 ⚡         | 239692    |
| 0.50                           | 192563        | 168433 ⚡      | 179993 ⚡        | 177593           | 239691    |
| 1.00                           | 192564 ⚡      | 168434 ⚡      | 179994 ⚡        | 177594 ⚡         | 239690    |
| 1.50                           | 192566        | 168435        | 179995 ⚡        | 177595 ⚡         | 239689    |
| 2.00                           | 192567        | 178353 ⚡      | 179996          | 225525           | 239688    |

⚡ – Stock Items.

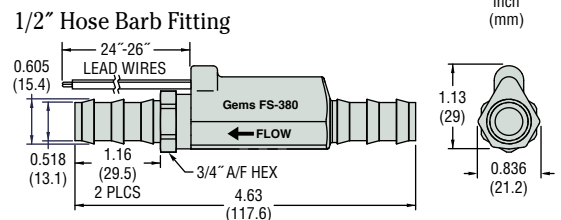
Note:  
 1. Flow settings are calibrated using water @ 70°F on increasing flow with units in horizontal position. Consult factory for other fluid compatibility.



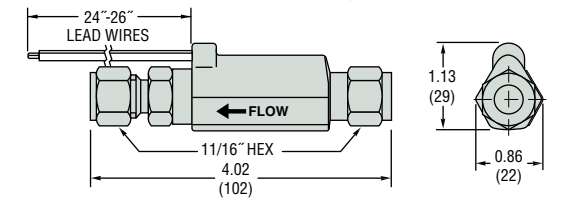
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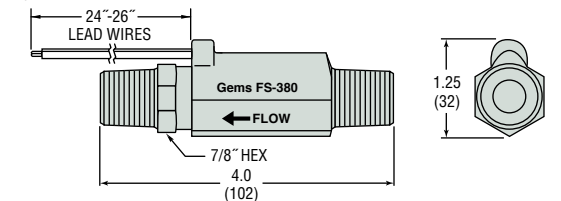
## Dimensions



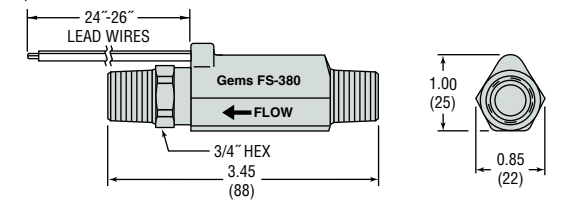
## 3/8" Tube End Compression Fitting



## 1/2" NPT Ports



## 3/8" NPT Ports



## Pressure Drop – Typical

