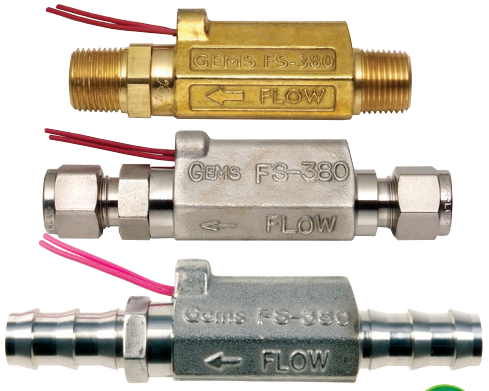
# FS-380 Series – Compact Flow Switch for High Inline Pressures

**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.




U.L. Recognized
File No. E31926

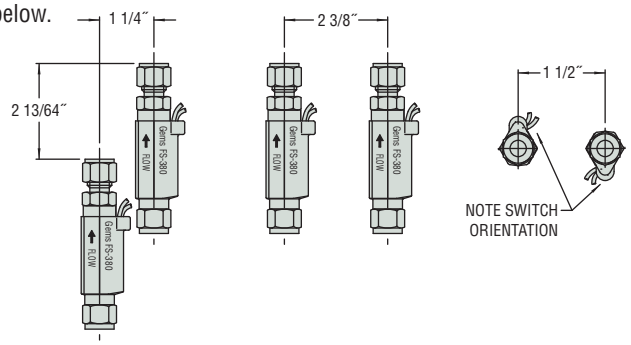
## Specifications

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

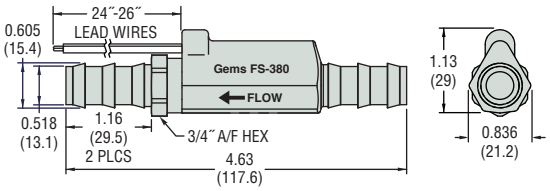
| Flow Settings GPM[1] | Brass | | Stainless Steel | | | |
|---|---|---|---|---|---|---|
| | 1/2″ NPT Male | 3/8″ NPT Male | 3/8″ NPT Male | 1/4″ Compression | 3/8″ Compression | 1/2″ Barb |
| 0.15 | — | 181130 ⚡ | 193482 ⚡ | 259118 | 212136 | 239693 |
| 0.25 | 192562 ⚡ | 168432 ⚡ | 179992 ⚡ | 259119 | 177592 ⚡ | 239692 |
| 0.50 | 192563 | 168433 ⚡ | 179993 ⚡ | 259121 | 177593 | 239691 |
| 1.00 | 192564 ⚡ | 168434 ⚡ | 179994 ⚡ | 259122 | 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.

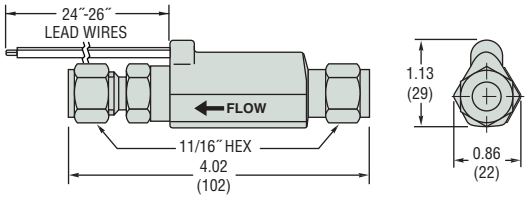
## Dimensions

inch (mm)

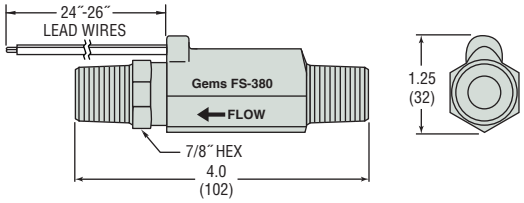
1/2″ Hose Barb Fitting



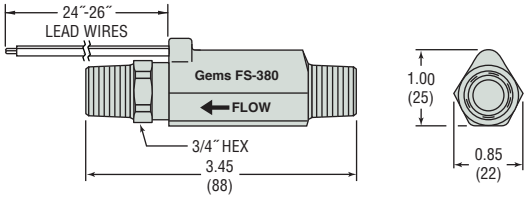

1/4″ and 3/8″ Tube End Compression Fitting




1/2″ NPT Ports




3/8″ NPT Ports




## Pressure Drop – Typical