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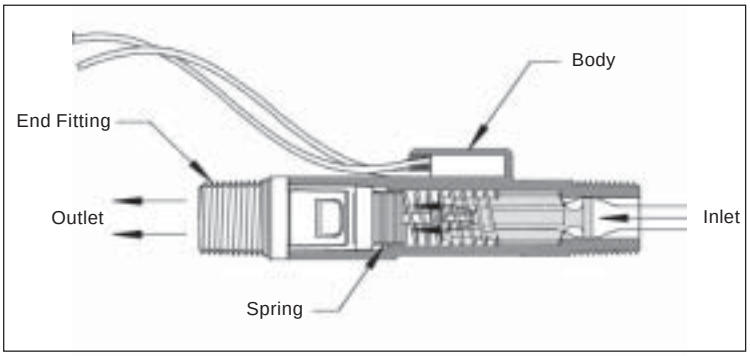
Instruction Bulletin No. 198938
Rev A

In-Line Flow Switches
FS-380P Series

Installation

All NPT threads should be installed using a suitable thread sealant (Teflon tape or Permatex “No more Leaks”). Sealant must be kept out of unit during installation. Ten diameters of straight run piping are recommended upstream and downstream of the flow sensor.



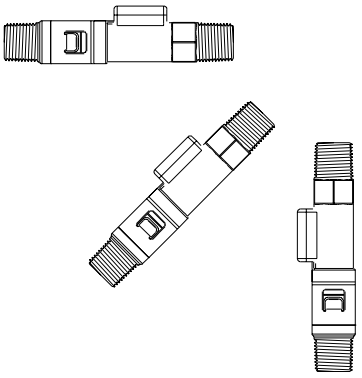
Specifications

Wetted Materials	
Housing, End Fitting	Hydrolytically Stable Glass Reinforced Polypropylene
Piston	PPS Composite
Spring	316 Stainless Steel
O-Ring	Fluorcarbon
Oper. Pressure, Max.	200 PSI at 70°F, 100 PSI at 212°F
Operating Temperature	-20°F to +212°F (100°C)
Required Filtration	100 Micron or Better
Set Point Accuracy	±20%, Maximum
Set Point Differential	20% Maximum
Switch, See “Switch Ratings”	SPST, 10 VA
Inlet / Outlet	3/8” NPT Male or Quick Connect
Electrical Termination	No. 24 AWG, 24” to 26” Polymeric Leads

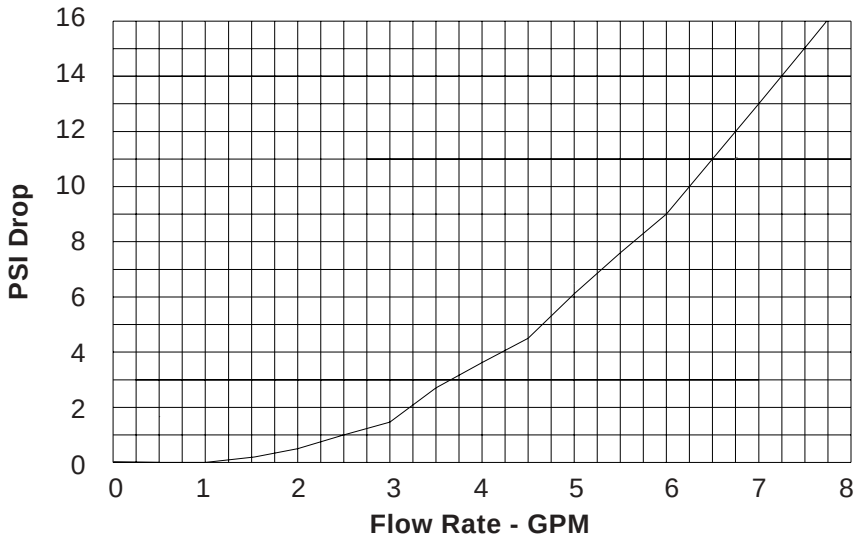
Note: The FS-380P is UL and CSA approved.

FS-380P Flow Switches Can be Mounted In Various Positions

Flow settings are based on a vertical position (inlet port down), using water at +70°F on increasing flow. Some variation in set point actuation will occur in other mounting orientations.



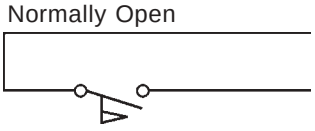
Pressure Drop - Typical



Switch Ratings

Contact rating: 10W
Switching Voltage (DC or AC Peak): 200 Max.
Switching Current (DC or AC): 0.4 A Max.
Carry Current (DC or AC): 0.4 A Max.
Break down Voltage: 230 VDC Min.

Wiring Diagram



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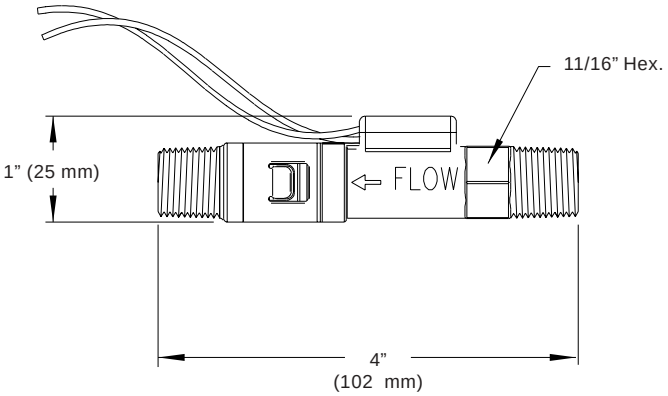
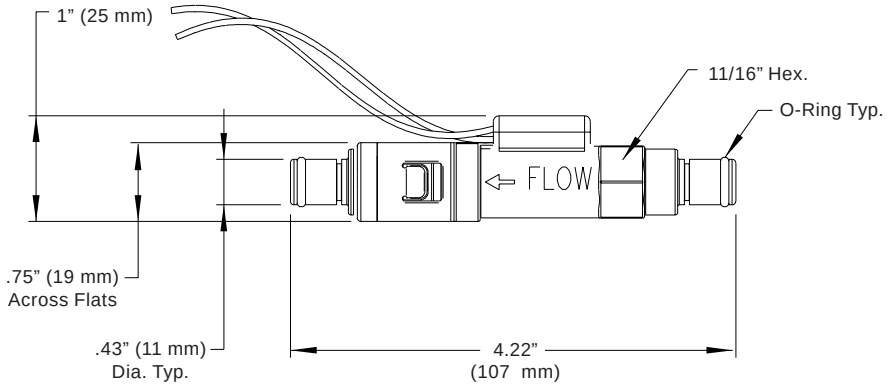
Dimensions

3/8" NPT Ports



Quick Disconnect Ports



Important Points:

- Gems products must be maintained and installed in strict accordance with the National Electrical Code and the applicable Gems product instruction Bulletin that covers installation, operation and proper maintenance. Failure to observe this information may result in serious injury or damages.
- For hazardous area applications involving such things as, but not limited to, ignitable mixtures, combustible dust and flammable materials, use an appropriate explosionproof enclosure or intrinsically safe interface device.
- Please adhere to the pressure and temperature limitations shown throughout this catalog for our level and flow sensors. These limitations must not be exceeded. These pressures and temperatures take into consideration possible system surge pressures/ temperatures and their frequencies.
- Selection of materials for compatibility with the media is critical to the life and operation of Gems products. Take care in the proper selection of materials of construction, testing is required.
- NSF-approved sensors are made of materials approved for potable water applications according to Standard 61.
- Stainless steel is generally regarded as safe by NSF and FDA.
- Life expectancy of switch contacts varies with application. Contact Gems if life cycle testing is required.
- Ambient temperature changes do affect switch set points, since the gravity of a liquid can vary with temperature.
- Our sensors have been designed to resist shock and vibration. However, shock and vibration should be minimized.
- Filter liquid media containing particulate and/or debris to ensure the proper operation of our products.
- Electrical entries and mounting points in an enclosed tank may require liquid/vapor sealing.
- Our sensors must not be field-repaired.
- Physical damage sustained by product may render it unserviceable.

CE This product is suitable for Class I and Class II applications only, per the requirements of standard EN60730 and any additional specific requirements for a particular application or medium being sensed. Class I compliance of metal bodied units requires a ground connection between the metal body and the earthing system of the installation. Class I compliance of plastic bodied units in contact with a conductive medium requires that the medium be effectively earthed so as to provide an earthed barrier between the unit and accessible areas. For Class III compliance, a supply at safety extra-low voltage (SELV) must be provided. Please consult the Factory for compliance information on specific part numbers.

Return Policy

Returns are accepted on stock items up to 30 days from date of order. You must contact our Returns Department for a Return Authorization (RA) number. Return the goods - freight prepaid - in the original container and include original packing slip. C. O. D. returns are not accepted. Gems reserves the right to apply restocking charges.

Tel: 860-793-4357
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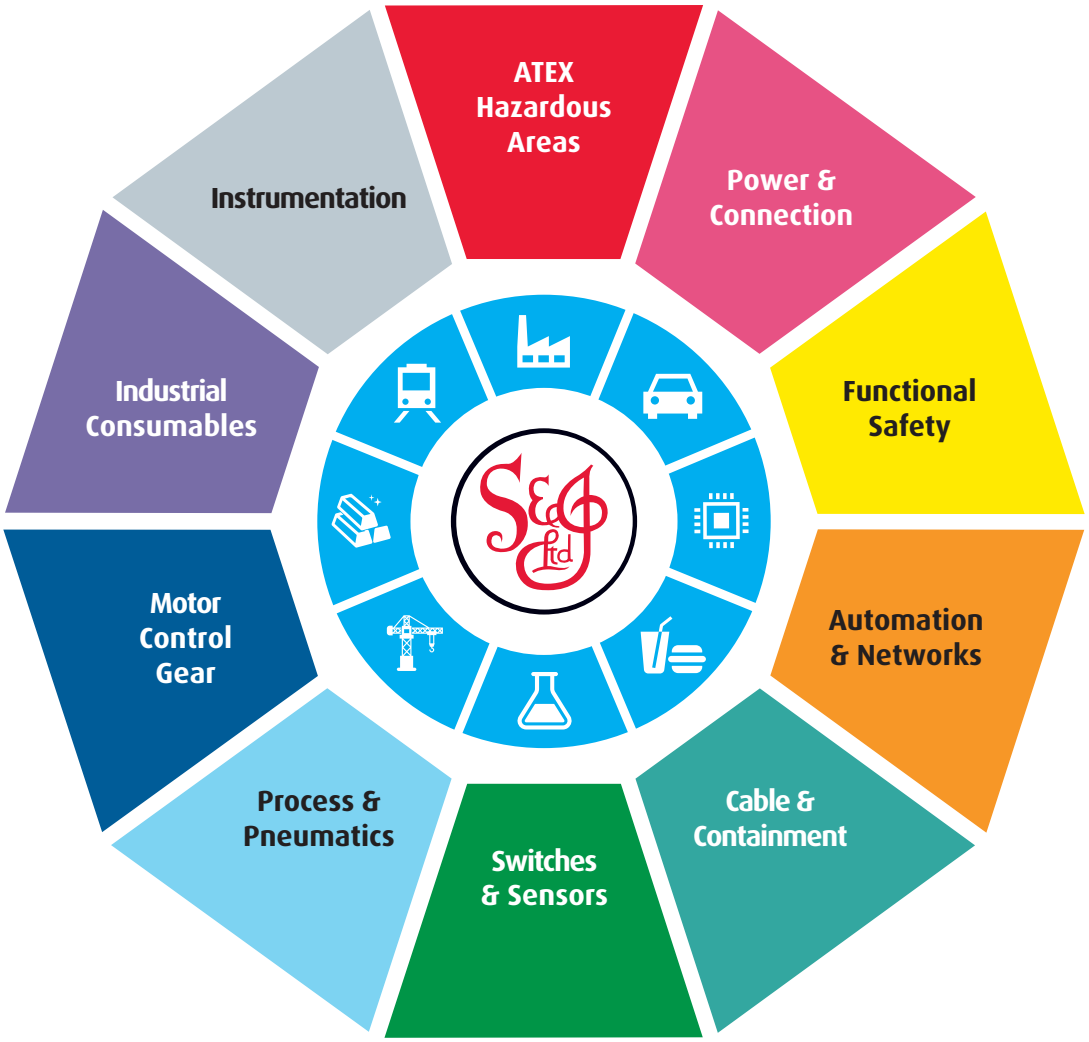

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