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Gems Sensors & Controls

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

CE cULus File No. E31926 RoHS

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

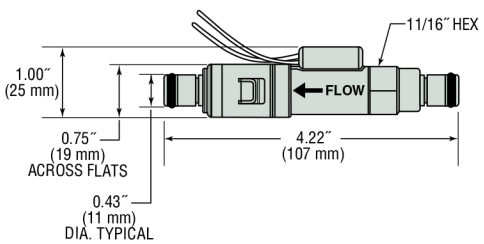
Wetted Materials	
Housing	Glass Reinforced Polypropylene
Piston	PPS Composite
Spring	316 Stainless Steel
O-Ring	Fluorocarbon
Operating Pressure	125 PSI (8.6 bar) @ 70°F (21°C), 50 PSI (3.4 bar) @ 212°F (100°C)
Operating Temperature	0°F to 212°F (-18°C to +100°C)
Set Point Accuracy	20% of Set Point
Set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

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

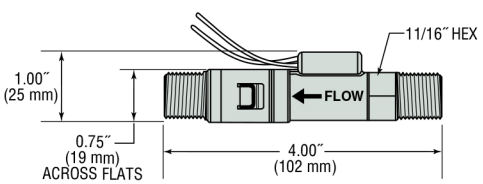
Dimensions

1/4″ Quick Disconnect Male Adapter

See table at bottom right for adapter Part Numbers.



3/8″ NPT Port



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 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.

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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FLOW SWITCHES

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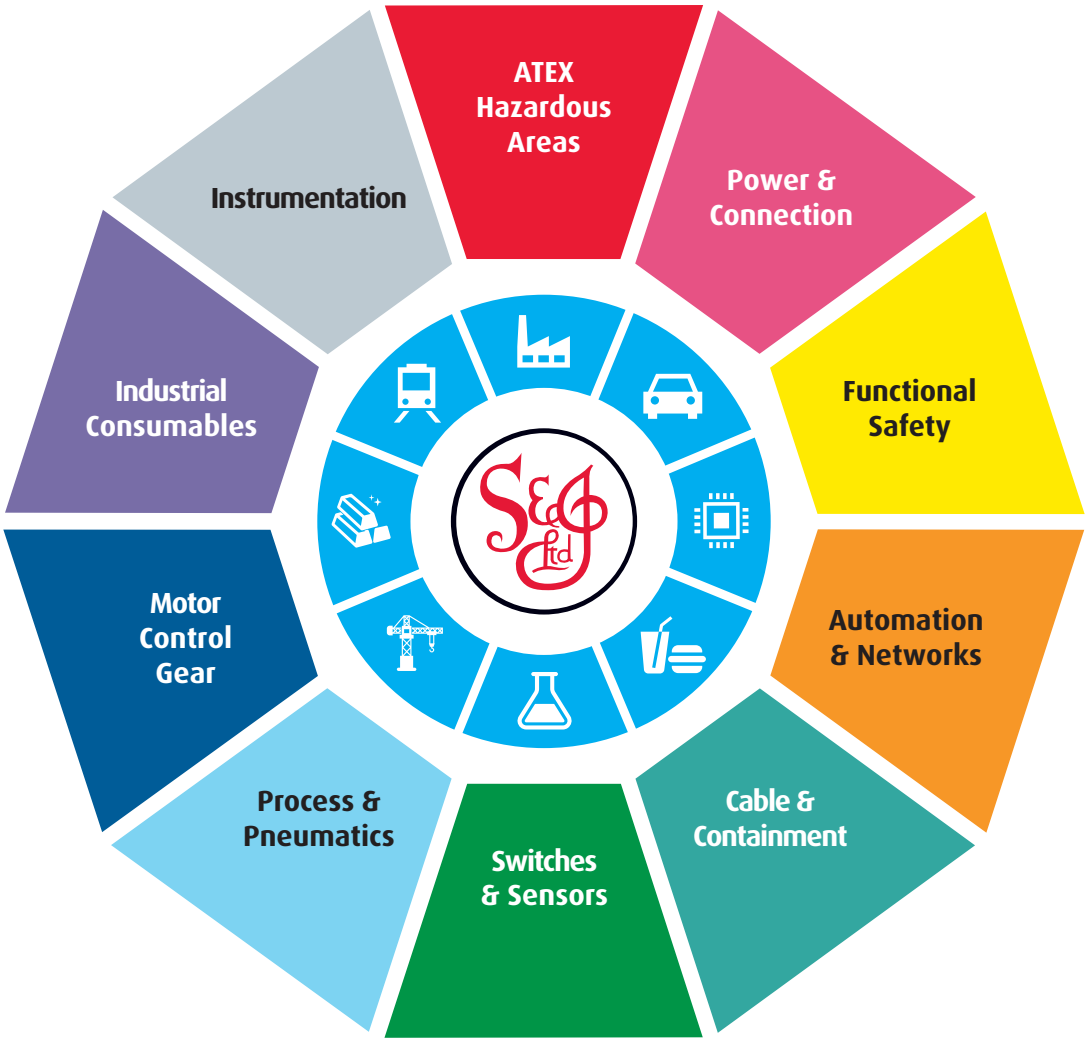

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