

# FS-3 0.2 - 3.8 (l/min) pre-adjusted set points

PISTON TYPE

These ultra compact switches have been specially designed for reliable operation in clean-post-filtered water. They are made primarily of Noryl®, with all other wetted materials are FDA or NSF compliant. FS-3 switches are instrument quality, yet affordably priced for pure water equipment from UV lamp switching to filter life monitoring. Also well suited to some chemical applications and a variety of cooling applications: lasers, welders, etc.

## Specifications (all data related to water at +20°C)

<b>Operating pressure</b>	10 bar at 20°C; 3.4 bar at 100°C
<b>Operating temperature</b>	max. 100°C
<b>Switch</b>	SPST, NO, 20 VA, 120...240 V AC/DC
<b>Inlet / outlet ports</b>	1/4" NPT, R 1/4"
<b>Electrical connection</b>	AWG 22 PVC-lead wires, Length appr. 0.3m
<b>Mounting orientation</b>	Any position
<b>Approvals</b>	U.L. approved file No. E91926

\*Materials of construction are either FDA or NSF compliant.

### Notes:

1. NO switches in No Flow condition are standard; please contact us for NC models.
2. The device is designed to provide Flow/No Flow sensing. Tabulated set points specify maximum contact closure thresholds on increasing fluid flow. Re-establishment of a Normally Open contact occurs on decreasing fluid flow between set point and no flow.
3. Flow settings are based on a vertical position (inlet port down), using water at +20°C on increasing flow. Some variation in set point actuation will occur in other mounting orientations.
4. Use of 50 micron, or better, filtration is required.
5. Not recommended for use with oils.

## How to Order

Set points (Fluid) (l/min)	Order numbers for Fluid	
	1/4" NPT	R 1/4"
0.2	165840	<b>166701</b>
1.0	165841	<b>166702</b>
2.0	165842	<b>166703</b>
3.8	165843	<b>166704</b>

### GAS/AIR

Set Points	(l/min)(air)	Order numbers for Gases	
0.35 bar	6.9bar	1/4" NPT	R1/4
12	28	165840-AIR	<b>166701-AIR</b>
28	74	165841-AIR	<b>166702-AIR</b>
70	158	165842-AIR	<b>166703-AIR</b>
140	340	165843-AIR	<b>166704-AIR</b>

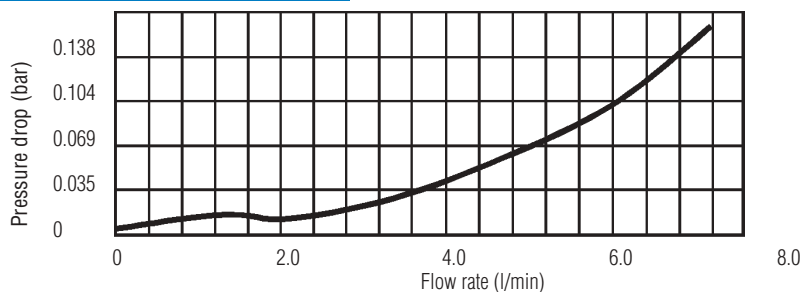
### Standard Models (Medium: water)

Specify the FS-3 flow switch using part numbers tabulated column above.

### Special Requirements

GEMS caters to OEM needs with special configurations, including Gas (Air) flow and customer specified electrical terminations.

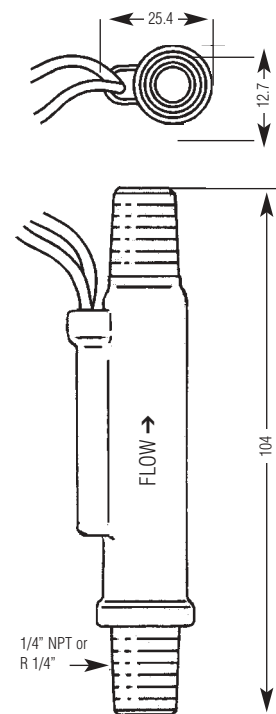
## Pressure Drop Diagram



Standard Products in **bold**



## Dimensions (in mm)



Housing: Noryl®  
 Piston: Noryl®  
 Spring: Stainless Steel

FLOW SWITCHES