

# FS-B Series – Bi-Directional Flow Switch

## Direction Indication Flow Switch

**Flow Rate Settings:** Normally Open at No Flow; Closes at 0.35 GPM Max  
**Port Size:** 3/8" Female NPT  
**Primary Construction Material:** Brass  
**Setting Type:** Fixed

This inline flow switch is a flow/no flow device with the ability to detect flow in either direction. It is key for applications where detection of flow direction is desirable or where undesired reverse flow is possible and must be prevented to avoid system damage. The FS-B is capable of rigorous application demands, high temperatures, media compatibility, and low pressure drop.

### Typical Applications

Any closed loop application where direction of flow needs to be indicated.

- Automotive Service Carts
- Bidirectional Hydraulics

### Specifications

|                                    |                                   |
|------------------------------------|-----------------------------------|
| <b>Wetted Materials</b>            |                                   |
| <b>Housing</b>                     | Brass and 316 Stainless Steel     |
| <b>Piston</b>                      | Brass, Epoxy                      |
| <b>Spring</b>                      | 316 Stainless Steel               |
| <b>O-Ring</b>                      | Buna N                            |
| <b>Port Adapters</b>               | 316 Stainless Steel               |
| <b>Port Size</b>                   | 3/8" NPT                          |
| <b>Operating Pressure, Maximum</b> | 1000 PSI (69 bar)                 |
| <b>Operating Temperature</b>       | -20°F to +221°F (-28°C to +105°C) |
| <b>Set Point Differential</b>      | 20% Maximum                       |
| <b>Switch*</b>                     | SPST, 10VA**, N.O. at no Flow     |
| <b>Electrical Termination</b>      | 4-conductor, 22 AWG, PVC Cable    |

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

\*\*Not recommended for AC Service

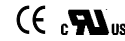
### How To Order – Standard Models

Specify Part Number based on flow setting.

| Flow Settings – GPM <sup>1</sup> | Part Number   |
|----------------------------------|---------------|
| 0.35                             | <b>254300</b> |

Note:

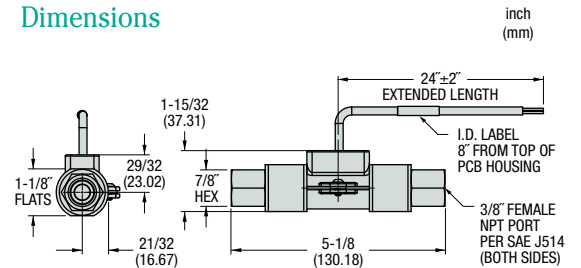
1. Flow settings are calibrated using water @ 70°F on increasing flow with units in horizontal position.
2. If a different actuation point is needed, please consult with your Gems sales rep or contact our factory.



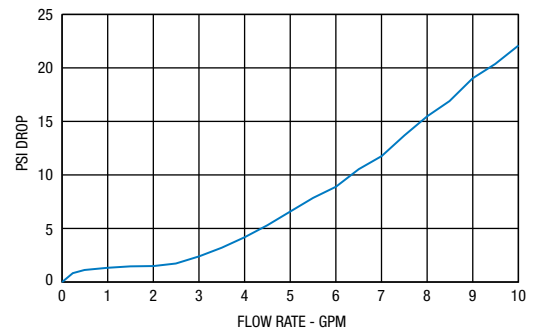
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### Dimensions



### Pressure Drop – Typical



### Wiring Diagram

