



MICRO FLOW SWITCH

Semiconductor/Speciality Gas Series

Adjustable Gas Range 30 sccm to 20 slpm



- ◆ Fully Field Adjustable
- ◆ Operates in Any Orientation
- ◆ Operating Temperature
-40°F to +220°F
(-40°C to +105°C)
- ◆ Operating Pressure
3000 psig (207 bar)
- ◆ 316 Stainless Steel Construction
- ◆ Electro-polished - 16 RA
- ◆ Shock and Vibration Resistant
- ◆ Contamination Resistant
- ◆ CE compliant

FS6800 Series *Micro* Flow Switch

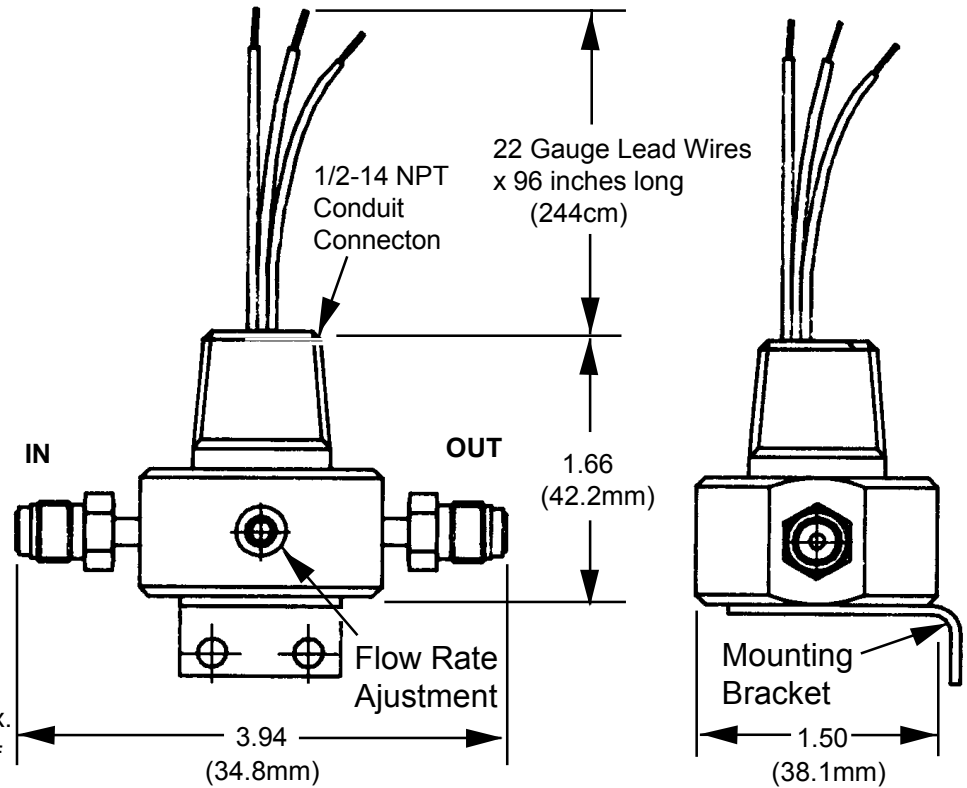
Available with 1/4 VCR® Connections
316L Stainless Steel Construction

The FS6800 Series *Micro* Flow Switch is designed to precisely detect increasing or decreasing flow rate of gases in critical semiconductor and speciality gas processes. Typical applications include flow fault monitor for oxygen, hydrogen and nitrogen systems, critical purge monitors, excess flow safety, and speciality gas systems. The linear, high resolution adjustment allows for precise settings. The miniature compact construction is ideal for high density system packaging.

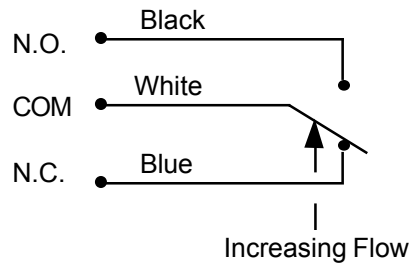
FS6800 Series MICRO FLOW SWITCH

SPECIFICATIONS

- ◆ Switch Assembly - SPDT UL 61760
- ◆ 100 VDC, 120 VAC max.
- ◆ 3 Watts resistive max. continuous
- ◆ 0.25 Amp. max. continuous
- ◆ 3.30 VA max. - 100 VDC
- ◆ 2.46 VA max. - 120 VAC
- ◆ 0.20 Ohm max contact resistance
- ◆ Adjustable Flow Rate Setpoint*
 - 1 30 sccm to 10 slpm N2
 - 3 1 slpm to 20 slpm N2
- ◆ Fluid Media: Gases including corrosives
- ◆ Pressure: 3000 psig max. (207 bar)
- ◆ Operating Temperature:
 - 40°F to 220°F (-40°C to 105°C)
- ◆ Leakage: 1x10⁻⁷ cc/sec He max.
- ◆ Set Point Accuracy: ±1%
- ◆ Response Time: 10 milliseconds max.
- ◆ Deactuation (reset): less than 12% of actuation set point
- ◆ Internal Filter: 40 micron
- ◆ Materials:
 - Body and wetted parts: 316 St Stl
 - Spring: Inconel X
 - Seals: As specified
- ◆ Weight: 0.45 lbs (205 gms)



ELECTRICAL SCHEMATIC



ORDERING INFORMATION

Part Number Example: **FS6804 C V - 1 M**

Basic Series: _____
FS6804 - 1/4 VCR®

Material: _____
C = 316 Stainless Steel

Seal Material: _____
V = Viton®
B = Buna - N
E = Ethylene Propylene
K = Kalrez®

Optional Mounting Bracket

Adjustable Flow Range*
-1 30 sccm to 10 slpm
-3 1 slpm to 20 slpm

* Adjustable Flow Rate Set Point @ 5 psig (0.34 bar)

AUTOFLOW Products Co.

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