

FLOW SWITCH - High Flow

Semiconductor/Speciality Gas Series Adjustable Range 1 slpm to 700 slpm



FS5800 Series Flow Switch - *High Flow* available with welded 1/4 and 1/2 VCR® Connections with optional Explosion Proof Cap

FEATURES

- Fully Field Adjustable
- Operates in any Orientation
- ◆ Operating Temperature -40°F to +220°F (-40°C to +105°C)
- Operating Pressure 1000 psig (68 bar)
- ♦ 316 Stainless Steel Construction
- ♦ Electro-polished, 16 RA
- Shock and Vibration Resistant
- ♦ Contamination Resistant
- Optional Explosion Proof
- ◆ CE compliant

Applications

- Purge flow fault monitor
- ◆ Toxic or hazardous gases
- ◆ Flammable or pyrophoric gases
- Oxygen systems

The FS5800 Series Flow Switch - *High Flow* 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 vacuum pump purging systems, as well as oxygen, hydrogen and nitrogen systems and excess flow safety. The linear, high resolution adjustment allows for precise settings. The compact construction is ideal for high density system packaging.

FS5800 Semiconductor/Speciality Gas Series

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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* (see table)
- Fluid Media: Gases including corrosives
- ♦ Pressure: 1000 psig max. (207 bar)
- ♦ Differiential Pressure at set point:
 - -5, -8: 1.0 psi max.
 - -6, -9: 5.0 psi max.
- 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

	22 Gauge Lead Wires x 96 inches long (244cm)
	JT C
Flow Rate Adjustment	Mounting Bracket Z

Series	Pressure Ports	D A	imens B	ions C**	Z		Adjustable* Flow Rate
FS5804	1/4 VCR®	4.30	1.56	3.12	1.13	-5 -6	1 slpm - 65 slpm 1 slpm - 120 slpm
FS5808	1/2 VCR®	4.18	1.56	3.12	1.13	-5 -6	1 slpm - 65 slpm 1 slpm - 120 slpm
FS5808	1/2 VCR®	4.90	2.24	3.88	1.63	-8 -9	1 slpm - 325 slpm 1 slpm - 700 slpm

ORDERING INFORMATION

