

➤ Mott Static Flow Controller



Description

The Static Flow Controller (SFC) is a high accuracy flow setting device for gas applications. Completely customized to your conditions, the SFC sets a repeatable flow rate from 1 sccm to 40 slpm* based upon your gas type and pressure. Flow rate accuracy within 1% is achieved through proprietary porous metal technology and NIST traceable primary standard equipment.

Features

- High accuracy, low cost
- +/- 1% Flow accuracy at the set point flow conditions
- Each SFC individually calibrated to your conditions
- +/- 0.1% repeatability
- Significant cost advantage over standard flow controller technology
- No need for expensive re-calibrations

Benefits

- Reliable and robust design
- Tamper-proof flow rate set to your conditions
- Long-life, anti-clog technology
- Compact design saves critical space
- Flow correction factors provided for varying temperatures and pressures conditions
- Manufactured in ISO class 5 cleanroom

Ordering Information

1. Desired flow rate (in sccm or slpm)
2. Specify gas (ex. Nitrogen)
3. Upstream pressure (in psi)
4. Downstream pressure (in psi)
5. Specify hardware configuration (custom optional)
6. Specify operating gas temperature (°C or °F)

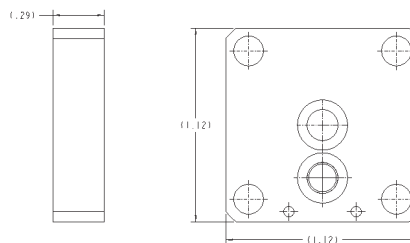
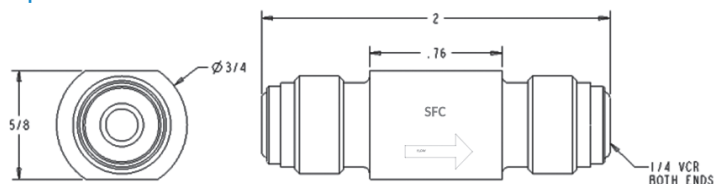
Need Point-of-use Filtration?

See our High Purity filter options available at <http://www.mottcorp.com>

**Ultra low flow and high flow rates available, contact a Mott sales representative for more information.*

➤ high purity products

Specifications



Flow Ranges Available

1 sccm to 40 slpm

Operating Conditions Available

Upstream

Positive pressure
Positive high pressure
Positive pressure
ATM
Vacuum



Downstream

ATM
Positive low pressure
Vacuum
Vacuum
Vacuum

Contact a Mott sales representative with desired conditions

Max Inlet Pressure / Max Differential Pressure

1500 psig

Accuracy

+/- 1% of reading (> 10 sccm)
+/- 0.2 sccm of reading (< 10 sccm)

Repeatability

+/- 0.1% of reading

Operating Temperature

Up to 450°C

Warm-up Time

N/A

Wetted Materials

316L Stainless Steel

Surface Finish

10 Ra (average)

Leak Integrity (External)

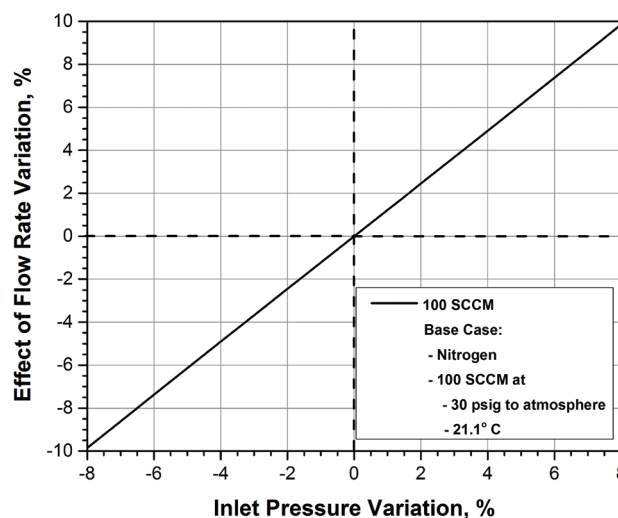
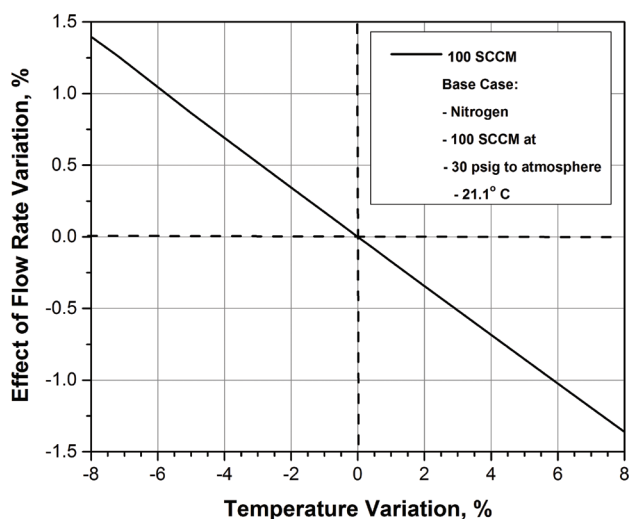
1 x 10⁻⁹ atm cc/sec Helium Leak Rating

Fittings (compatible with)*

1/4" Face Seal / IGS 1.125" C-Seal

*other fittings available on request

Effect on Flow Rate Variation



mott corporation



ISO 9001:2008 CERTIFIED
HPSFC 0815

Mykron

84 Spring Lane, Farmington, CT 06032-3159 | 860-747-6333 Fax 860-747-6739
www.mottcorp.com | email flow@mottcorp.com

Mykron Microelectronics Co., Ltd. 上海资方微电子有限公司

No.12 Yi, Chao Yang Men Street (North), Beijing, 100020, China
Beijing: Tel. (86)10-6551 0500 Fax (86)10-6551 0501
Shanghai: Tel. (86)21-6888 5300 Fax (86)21-6888 5301
http://www.mykron.com