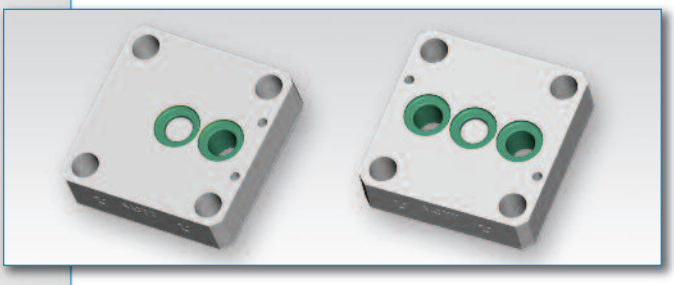
mott corporation

Surface Mount Flow Restrictors for High Purity Gases



Porous metal restrictors for 1.125" surface mount applications

Mott Corporation supports the 1.125" and 1.5" high-flow C-Seal configuration of integrated gas systems with a full line of porous metal flow restrictors. These products use standard C-Seal sealing technology and provide the same high-quality flow restriction presently available in our 5140 series restrictors with traditional face seal design. All GSMR restrictor products are assembled and tested in a class 100 clean room environment. For W-Seal configurations, consult factory for specifications.

Configuration

Our spool piece design (GSMR-20 and 30) allows the modular restrictor to be mounted between the substrate and another two-port surface mount component. Please specify at time of order which port (center or side port) requires the porous restrictor. The spool piece requires seals for both sealing surfaces on top and bottom.

Specifications

- Materials of construction: Media and housing are 316L SS with a 10 Ra surface finish on all wetted surfaces
- Temperature: Up to 460°C (Inert gases)
- Pressure: Up to 120 psig
- Standard downstream flow rates from 50 slpm – higher flows available
- Flow tolerance: ±7% of rated flow at rated pressure (±2% available upon request)

Mott can meet your specific request Please provide us with the following information:

- Specify the process gas to be used
  Note that Mott GSMR restrictors are calibrated on the following actual gases: Argon, Nitrogen, Hydrogen, Oxygen, Helium and Air. All other gases are calibrated using viscosity curves
- Flow rate: sccm
- Inlet pressure: psig
- Outlet pressure (if other than atmosphere)

Modular Mount Flow Restrictors Model Translator
GasShield® Modular Mount Restrictors

Code	Product Family
GSMR	Gas Shield Modular Mount Restrictors

Code	Seal Type
20	C Seal, 1.125 square in. spool piece (flow passage equivalent to 1/4" tubing)
30	C Seal, 1.5 square in. spool piece (flow passage equivalent to 3/8" tubing)

Code	Housing Materials
1	316L SS VAR

Code	Flow Rate
XX	Flows from 0.000001 sccm to 30,000 sccm (other flows consult factory)

Code	Gas and Inlet Pressure
XX@XX	Gas Name @ PSI (PSIG)

Code	Number of Ports
2	Two Port
3	Three Port

Code	Port Location
S	Side Port
C	Center Port

GSMR	**20**	**1**	**500 SCCM**	**N2@30PSIG**	**2**	**C**	**Typical Model Number**

high purity products

ISO 9001 CERTIFIED
HPIGSFR 0111

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