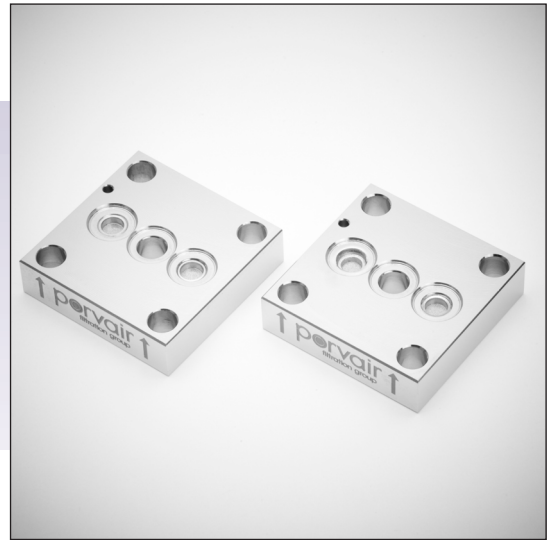


GasPro™ MFR

Ultra High-Purity Sintered
Porous Media Surface
Mount C-Seal
Flow Restrictors



Porvair's GasPro™ Surface Mount Porous Metal Flow Restrictors are designed for Surface Mount C-Seal 1.125" gas systems.

Available in various configurations including Porvair's unique dual orifice restriction.

Features and Benefits

- Improved gas management**
 Porous metal flow restrictors are devices that precisely limit the gas flow rate given an inlet and outlet pressure. They can be used in a wide range of inert, highly toxic and pyrophoric gasses to reduce the handling risk.
- Reliable, tamper proof flow control**
 Porous metal flow restrictors have no moving parts and do not require any power. They will continue to provide accurate, fixed flow without adjustment over the product's lifespan.
- Sintered porous media provides laminar flow**
 Engineered to have enormous numbers of micro-scale, interconnected passageways that restrict and limit flow in a gas line. Porous metal flow restrictors have greater resistance to plugging, decrease flow turbulence, and reduce flow burden for a longer lasting product.
- Pressure stabilization**
 Prevention of pressure surges and pressure shock protects and improves dynamic flow control performance downstream.

Design flexibility

Porvair's porous metal flow restrictors accommodate a wide range of flow requirements. For technical data on a specific flow restrictor, or help on selecting the best flow restrictor for your application, contact the Porvair sales team with the following information, to discuss product availability:

1. Gas type
2. Inlet pressure
3. Downstream pressure
4. Desired downstream flow rate
5. Body size, number of ports, port location and porous material type

Porvair Sinterflo® MFR Flow Restrictors

- Low gas approach velocity, virtually no effect on performance.
- Sinterflo® AP media with multiple pathways resist particulate fouling.
- Low velocity gas flow creates laminar downstream flow.

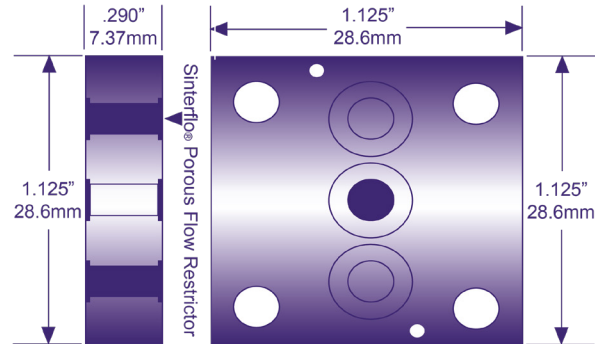


Specifications

- Material of construction: Sinterflo® AP 316L media Housing SS316L
- 10 Ra surface finish on all wetted surfaces
- 32 Ra surface finish on all non-wetted surfaces
- Maximum operating pressure: 1200 psig
- Maximum differential pressure: 1200 psid
- Burst pressure: 20,000 psig
- Operating temperature: up to 460°C (inert gases)
- Rated flow: 60,000 SCCM
- Flow tolerance ± 7.5%
- Marking: Laser etched
- Seal type: C-Seal
- Calibrated in Nitrogen

* SCCM at 0°C

Dimensions



Ordering Guide

Product Code: 1 2 3 4 5 6 7 8 9 Eg: MFR18SS3S30N2-500

1: Part Number		3: Porous Material		5: Port Location		7: Calibration Gas Type		8: Flow Rate		9: Outlet Pressure (psig)	
MFR		SS	Stainless Steel 316L	C	(Centre)	N2	Nitrogen	1- 60,000 SCCM		None	Atmosphere
2: C-Seal Body Size		4: Ports		6: Inlet Pressure (psig)		He	Helium			-XXX	Custom*
18	1.125"	2	(2 ports)	Up to 1200 psig		H2	Hydrogen				
		3	(3 ports)			O2	Oxygen				
						Ar	Argon				
						CDA	Air				

Note: The following table does not represent all available flow restrictor options. Contact a Porvair sales representative for requests.

*Outlet pressure designated in psig. For Vacuum applications, contact a Porvair sales representative.