

GENIE®

membrane separator
Model 101



Applications

- ▶ Protection against liquids
 - ▶ On-line and portable analyzers
 - ▶ GC's, Mass Specs, O₂, H₂S, Moisture, and others
- ▶ Spot, composite, or continuous gas sampling in any process industry including natural gas, petrochemical, and oil refining

Benefits

- ▶ Superior analyzer protection
- ▶ Helps preserve sample integrity
- ▶ Economical
- ▶ Improves analyzer reliability
- ▶ Reduces analyzer maintenance

Features

- ▶ Genie® Membrane Technology™
- ▶ Low internal volume
- ▶ MRP and Liquid Block™ can be retrofitted
- ▶ Universal Assembly™ option

Quick Study

The Series 100 Genie® Membrane Separators™ remove 100% of entrained liquid and particulate in gas samples, which allows only gas sample to flow to analyzers. This action protects analyzers and sample system components against liquid damage. The original Genie® Series 100 models are available in several body styles with different membrane types to accommodate a wide variety of applications. The Genie® Supreme Series™ 100 models accommodate the same applications, yet they offer an improved housing design for easy maintenance and the innovative Liquid Block Technology™ that prevents liquid from being forced across the membrane should sample line pressure conditions become upset.

The Model 101 protects gas sample systems with relatively low sample flow requirements and small amounts of liquid present on a continuous basis. It is comparable to the Genie® Supreme Series™ Model 120 and offers a 1" diameter membrane, ideal for removing liquid aerosol or droplets from gas samples; it is also perfect for protecting components such as on-line analyzers, gas chromatographs, or BTU analyzers. Please note that special assemblies may be ordered, such as a Universal Assembly or Liquid Block™ retrofit. Additional information such as Application Notes is available.

Technical Specifications

Maximum pressure rating	Stainless Steel 101UA:Stainless Steel Kynar	1,000 psig 100 psig (due to rotameter limitations) 50 psig
Maximum recommended supply pressure	Lowest possible pressure consistent with application* *Must not exceed "Pressure rating" listed above	
Maximum temperature	185 °F (85 °C) for Type 6 membrane 212 °F (100 °C) for Type 7 membrane* *Applies to Kynar housing 302 °F (150 °C) for Type 7 membrane* *Applies to Stainless Steel housing	
Maximum recommended membrane flow rate (For higher flow rates contact the factory)	1,440 cc/min for Type 6 membrane* 5,000 cc/min for Type 7 membrane* *Maximum flow results in approximately 2 psi membrane differential pressure	
Port sizes	Inlet, Outlet, & Bypass: 1/4" female NPT	
Internal volume	Inlet: 0.30 cubic inches Outlet: 0.09 cubic inches	
Wetted materials	Machined parts : 316 stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Sealing material: fluoroelastomer standard Membrane: Inert	



An ISO 9001:2008 certified company



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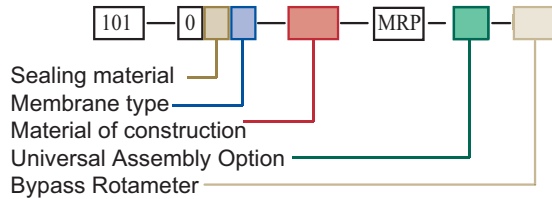
Model Numbering & Additional Part Numbers

Your model number is determined by your specific needs. Choose options below. Part # 101-005-SS-MRP-U-1 is recommended for most applications.

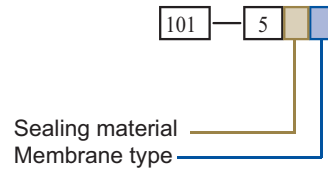
Sealing material	0 = fluoroelastomer	1 = perfluoroelastomer	(other materials available upon request)
Membrane type	6 = Rejects ALL types of liquids from vapor		7= Rejects ONLY high surface tension liquids
Material of construction	SS = Stainless Steel	K = Kynar	
Universal Assembly Option	Blank = No Universal Assembly		U = Universal Assembly
Bypass Rotameter**	0 = Without Rotameter	1 = 10-100 cc/min*	2 = 100-1000 cc/min*

**Dwyer Rotameter with Integral Valve

How to build the model number:

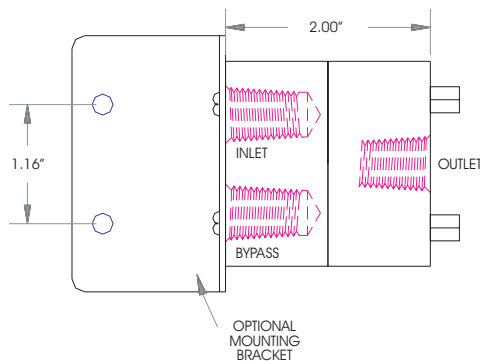


How to build the replacement membrane kit number:

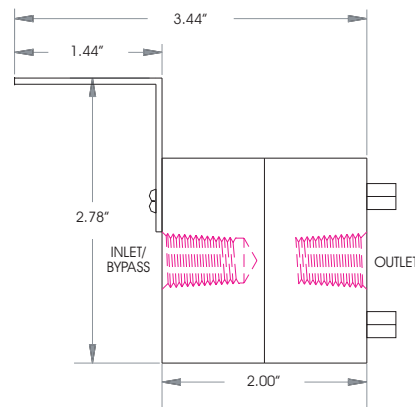


Dimensions

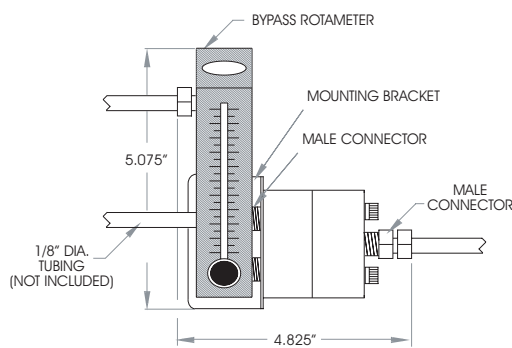
Side View



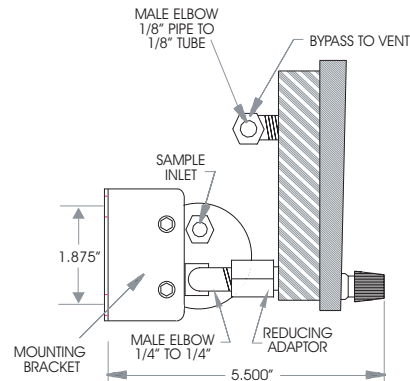
Top View



Assembly Front View



Assembly Side View



Local Distributor:

Manufacturer

A+ Corporation, LLC

41041 Black Bayou Road

Gonzales, LA 70737

Call for expert product application assistance:

Phone: (225)-644-5255 Website: www.geniefilters.com

Fax: (225)-644-3975 E-mail: sales@geniefilters.com



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