



GENIE®
membrane separator
Model 101



U.S. Patent 5,476,586

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 Polypropylene Kynar | 1,000 psig 50 psig 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/BTU membrane 212 °F (100 °C) for Hi-Flow/Hi-Flow Backed membrane* *Applies to Polypropylene & Kynar housing 302 °F (150 °C) for Hi-Flow/Hi-Flow Backed 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/BTU membrane* 5,000 cc/min for Hi-Flow/Hi-Flow Backed 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: Viton® standard Membrane: Inert | |




An ISO 9001:2008 certified company



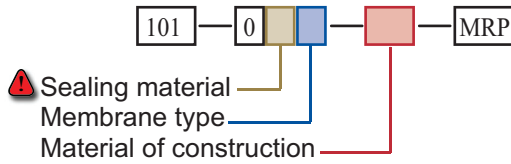
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Model Numbering & Additional Part Numbers

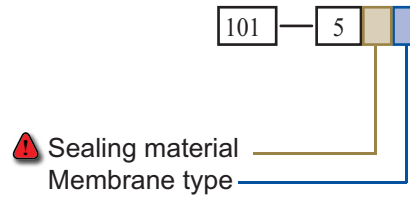
Your model number is determined by your specific needs. Choose options below.




| | | | |
|---|-------------------------------------|--------------------|--|
| Sealing material  | 0 = Viton® | 1 = Kalrez® | (other materials available upon request) |
| Membrane type | 2 = Hi-Flow | 6 = Type 6/BTU | 7 = Hi-Flow Backed |
| Material of construction | SS = Stainless Steel | PP = Polypropylene | K = Kynar |
| Mounting bracket accessory | Part # 101-509-SS (sold separately) | | |

How to build the model number:



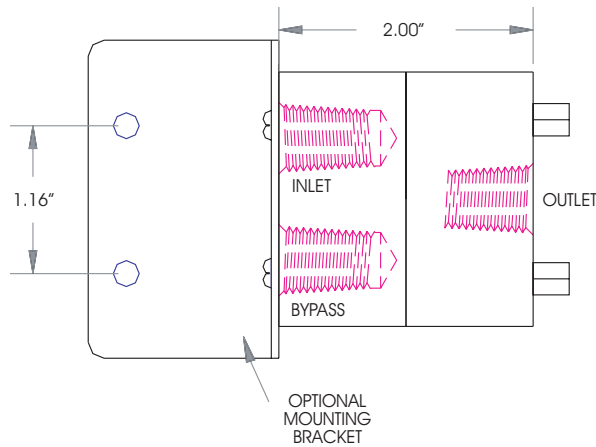
How to build the replacement membrane kit number:



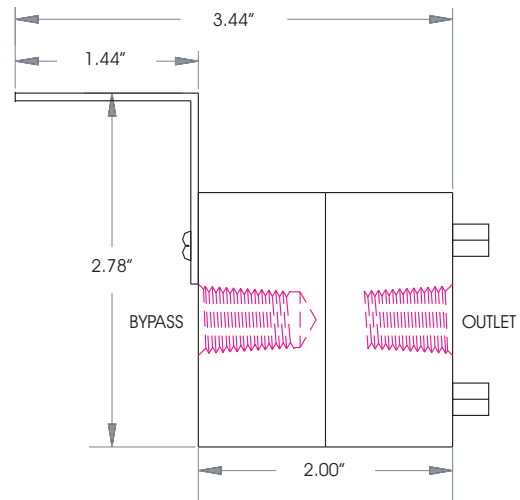
-  We cannot recommend specific sealing materials due to the complex nature of sample stream compositions. Temperature and pressure also may be factors.
-  Unless specified otherwise, the product will ship with our standard sealing materials and materials of construction stated in the technical specifications section of the corresponding Product Sheet.  Please refer to www.dupontelastomers.com for sealing material recommendations and advice. It is the user's responsibility to specify the sealing materials and other materials of construction for their application.

Dimensions

Side View



Top View



Local Distributor:



An ISO 9001:2008 certified company

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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