

GENIE®

membrane separator
Model 102A



U.S. Patent 5,476,586

Applications

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

Benefits

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

Features

- ▶ Genie® Membrane Technology™
- ▶ Low internal volume
- ▶ Optional G.U.T.S.™ seal
- ▶ Large membrane for high flows

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 102A protects gas systems with a higher flow rate than the Model 101 can accommodate, higher than 720 cc/min. for the Type 5 membrane or 2,500 cc/min. for the Hi-Flow Backed membrane. It is recommended for small quantities of liquid that are continually present. The Genie® Model 102A offers a 3" diameter membrane, which is ideal for the removal of intermittent slugs of liquid and aerosol droplets from gas samples; it is also perfect for the protection of components such as on-line analyzers, gas chromatographs, or mass spectrometers.

Technical Specifications

Maximum pressure rating	450 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 302 °F (150 °C) for Hi-Flow/Hi-Flow Backed membrane
Maximum recommended membrane flow rate (For higher flow rates contact the factory)	11,400 cc/min for Type 6/BTU membrane* 37,800 cc/min for Hi-Flow/Hi-Flow Backed membrane* *Maximum flow results in approximately 2 psi membrane differential pressure
Port sizes	Inlet, Outlet, Bypass, & Drain: 1/8" female NPT
Internal volume	Inlet: 1.30 cubic inches Outlet: 0.23 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



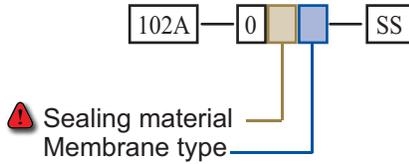
Genie®, Genie® Membrane Technology™, Genie® Membrane Separators™ are trademarks or registered trademarks of A+ Corporation, LLC. All other referenced trademarks are the property of their respective owners.

Model Numbering & Additional Part Numbers

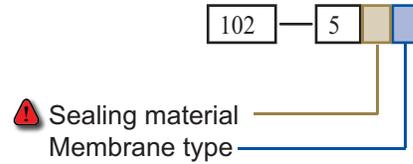
Your model number is determined by your specific needs. Choose options below.

Sealing material ⚠	0 = Viton®	1 = Kalrez®	T6 = G.U.T.S.™ & TEV (other materials available upon request)
Membrane type	2 = Hi-Flow	6 = Type 6/BTU	7 = Hi-Flow Backed
Mounting bracket accessory	Part # 102-109-SS (sold separately)		

How to build the model number:

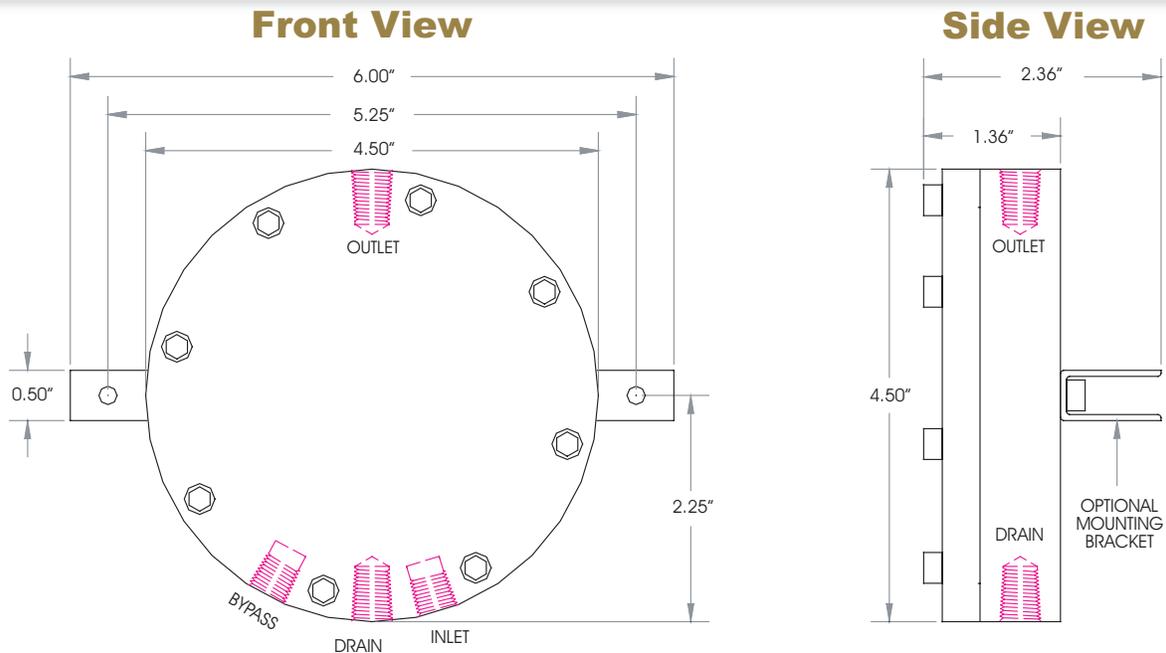


How to build the replacement membrane kit number:



⚠ 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



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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