

GENIE®

membrane separator
Model 102A



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
- ▶ Large membrane for higher flow rates

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 6 membrane or 2,500 cc/min. for the Type 7 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 membrane 302 °F (150 °C) for Type 7 membrane
Maximum recommended membrane flow rate (For higher flow rates contact the factory)	11,400 cc/min for Type 6 membrane* 37,800 cc/min for Type 7 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: fluoroelastomer standard Membrane: Inert



An ISO 9001:2008 certified company



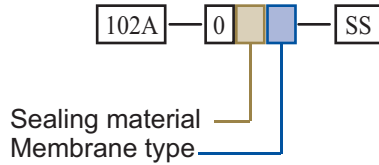
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Model Numbering & Additional Part Numbers

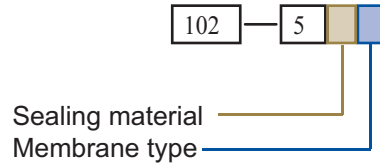
Your model number is determined by your specific needs. Choose options below.

Sealing material	0 = fluoroelastomer	1 = perfluoroelastomer	<i>(other materials available upon request)</i>
Membrane type	6 = Rejects ALL types of liquids from vapor	7 = Rejects ONLY high surface tension liquids	
Mounting bracket accessory	Part # 102-109-SS (sold separately)		

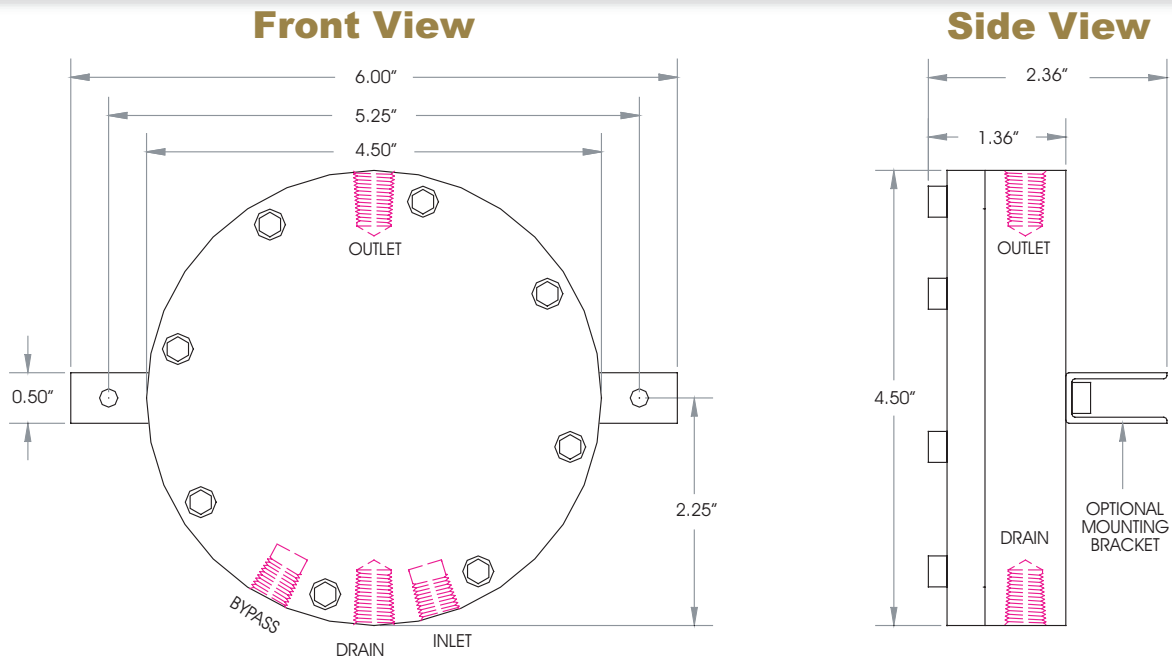
How to build the model number:



How to build the replacement membrane kit number:



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:

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