

# GENIE®

membrane separator  
Model 102AX



## Applications

- ▶ Protection against liquids
  - ▶ On-line and portable analyzers
  - ▶ GC's, Mass Specs, O<sub>2</sub>, H<sub>2</sub>S, 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
- ▶ Accommodates higher flow rates

## Features

- ▶ Genie® Membrane Technology™
- ▶ Low internal volume
- ▶ Two large membranes in one body

## 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 102AX** protects gas systems with a higher flow rate than the Genie® Model 102A can accommodate, higher than 5,700 cc/min. for the Type 6 membrane or 18,900 cc/min. for the Type 7 membrane. It is recommended for small quantities of liquid that are continually present. The Genie® Model 102AX offers two 3" diameter membranes, which are ideal for the removal of intermittent slugs of liquid and aerosol droplets from gas samples; it is also perfect for the protection of analyzers 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)	22,800 cc/min for Type 6 membrane* 75,600 cc/min for Type 7 membrane* *Maximum flow results in approximately 2 psi membrane differential pressure
Port sizes	Inlet, Outlet, Bypass, & Drain: 1/4" female NPT
Internal volume	Inlet: 2.60 cubic inches Outlet: 0.46 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



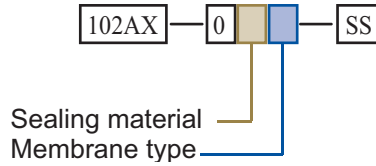
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# Model Numbering & Additional Part Numbers

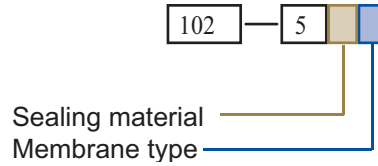
Your model number is determined by your specific needs. Choose options below.

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

How to build the model number:

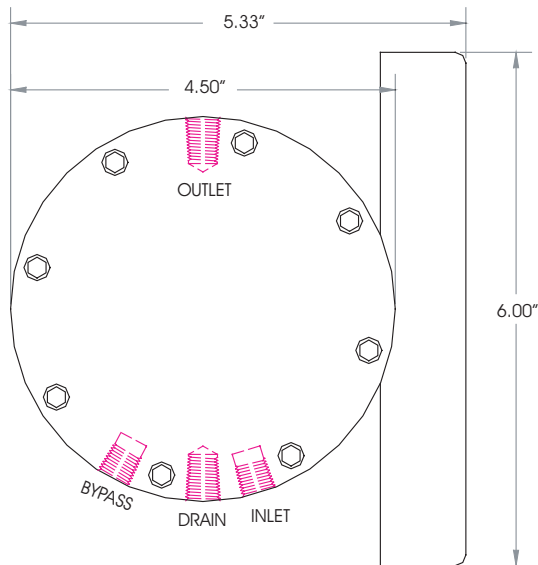


How to build the replacement membrane kit number:

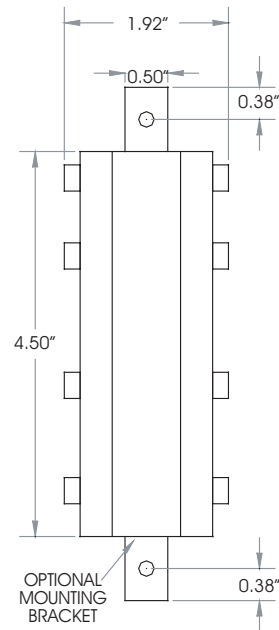


## Dimensions

**Front View**



**Side View**



### Local Distributor:



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### Manufacturer

**A+ Corporation, LLC**

41041 Black Bayou Road

Gonzales, LA 70737

Call for expert product application assistance:

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