

GENIE Liquid Block™

Model 101 Retrofit



U.S. Patents 5,476,586; 7,555,964

Quick Study

The **Liquid Block™** Model 101 retrofit is a hardware component for the Genie® Membrane Separator™ Model 101 that provides the ultimate safe-guard against liquid damage to gas analyzers. It is installed in field mounted 101's to upgrade them with the Genie® Supreme Liquid Block™ feature, and little or no modification to existing sample systems is required. Liquid can be forced through any phase separation membrane when inadvertent circumstances cause excessive membrane differential pressure. The revolutionary Liquid Block™ limits flow when high membrane differential pressure occurs, and it completely valves off flow through the membrane to prevent liquid break-through from occurring in the presence of excess liquid. The Liquid Block™ will automatically reset itself once the excess liquid exits the Bypass.

Applications

- ▶ Protection against liquids in gas sample conditioning system containing a Genie® Model 101
 - ▶ 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
- ▶ Preserves Genie® investment
- ▶ Reduces maintenance costs
- ▶ Quick and easy installation

Features

- ▶ Genie® Membrane Technology™
- ▶ Low internal volume
- ▶ Positive shut-off
- ▶ Flow limiter
- ▶ Indirect maintenance indicator

Technical Specifications

Maximum pressure rating	1,000 psig
Maximum Liquid Block™ valve auto-reset pressure	35 psig* <small>*Slowly open the supply pressure so that the minimum differential pressure required to shut-off the Liquid Block™ is not met or exceeded.</small>
Maximum temperature	185 °F (85 °C) for Type 6/BTU membrane 302 °F (150 °C) for Hi-Flow Backed membrane
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 Backed membrane* <small>*Maximum flow results in approximately 2 psi membrane differential pressure</small>
Internal volume	0.878 cc
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



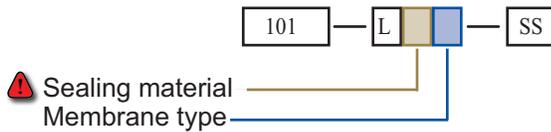
Genie®, Genie® Supreme™, Supreme Series™, Genie® Membrane Technology™, Liquid Block™, Genie® Membrane Separator™ and Genie® Probes™ are trademarks or registered trademarks of A+ Corporation, LLC. All other referenced trademarks are the property of their respective owners.

Model Numbering & Additional Part Numbers

Your model number is determined by your specific needs. See choices below.

Sealing material ⚠	0 = Viton®	(other materials available upon request)	
Membrane type	2 = Hi-Flow	6 = Type 6/BTU	7 = Hi-Flow Backed

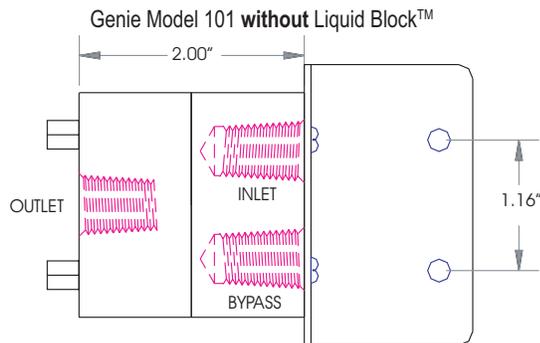
How to build the model number:



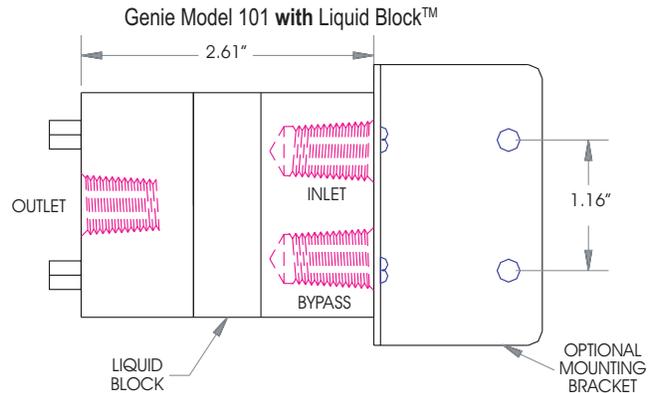
⚠ We cannot recommend specific sealing materials due to the complex nature of sample stream compositions. Temperature and pressure also may be factors.
 ⚠ Unless specified otherwise, the product will ship with our standard sealing materials and materials of construction stated in the technical specifications 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



Side 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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