GENIE®133
Supreme Membrane Separator

Genie® Supreme™ Model 133 Probe Mount Assembly Installation & Operation Instructions

U.S. Patent 7,555,964

Manufacturing Contact Information

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Gonzales, LA 70737

Call for expert product application assistance:
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Safety Warnings

Failure to abide by any of the safety warnings below may result in equipment failure and serious injury or death.

- Valve off the sample flow before installation.
- Do not exceed any equipment pressure ratings.

Tools Required

- 13/16” open end wrench
- Thread sealant

An ISO 9001:2008 certified company

GENIE® sampling solutions

Technical Specifications

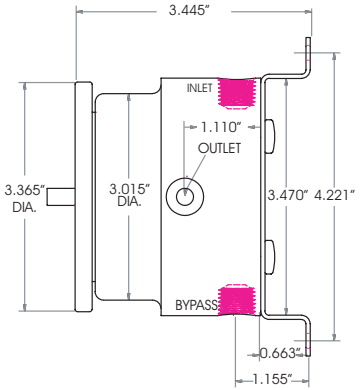
Maximum pressure rating	3,000 psig (206.8 Bar) Probe Assembly: 2,500 psig (172.4 barg)
Maximum Liquid Block™ valve auto-reset pressure	2,000 psig (137.9 barg) Slowly open the supply pressure so that the minimum differential pressure required to shut off the Liquid Block™ is not met or exceeded.
Temperature range	Type 6 membrane: -15°F (-26.1°C) to 185°F (85°C) *Type 7 membrane: -15°F (-26.1°C) to 300°F (149°C) *Actual limit depends on sealing material chosen. Refer to Temperature Range Comparison Chart.
Maximum Recommended Flow Rate Results in approx. 2 PSI pressure differential. For higher flow rates, contact the factory.	Type 6 Best Rejection: 5.4 SLPM (11.4 SCFH) Type 7 Highest Temps: 7.1 SLPM (15.0 SCFH) Models with Liquid Block™ require 70 psig minimum inlet pressure to achieve maximum flow.
Bypass flow rates	Requirement varies with application
Port sizes	Inlet, Outlet, & Bypass: 1/4" female NPT
Internal volume (cc) Listed with and without Liquid Block™ respectively	Total: 43.7, 44.9 Upstream of membrane: 40 Downstream of membrane: 3.7, 4.9
Wetted materials	Machined parts: 316/316L stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Sealing material: User defined Membrane: Inert

GENIE®133
Supreme Membrane Separator

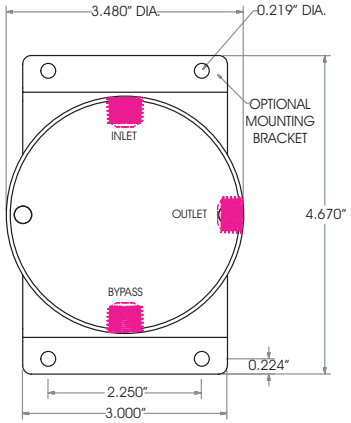
Dimensions

Individual product

Side View

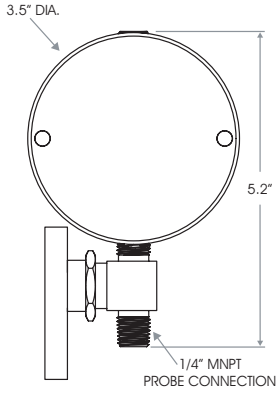


Front View

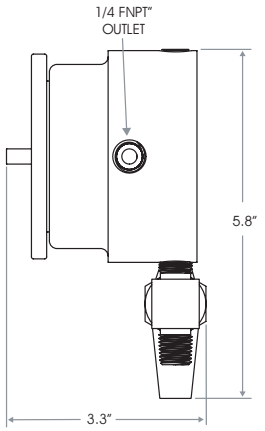


Probe mounted assembly

Front View



Side View



Refer to 760 or GPHV product sheet for probe dimensions and technical informati

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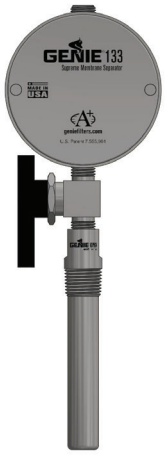
(133 Probe Asembly with Direct Drive™ 760 probe)



(133 Probe Asembly mounted onto Genie® GPHV)

Installation Instructions

Note: This product is intended to be mounted on the outlet of a sample probe, as seen illustrated on the **Genie®** GPHV. If using a **Direct Drive™** 760 Probe, verify that you have the correct version of the 760 probe. A 760 with vertical outlet port orientation is required.

Step 1. Attach the 133 assembly to probe

- Apply thread sealant, such as **Teflon®** tape, to inlet valve threads on the 133 assembly.
- Using a 13/16" open end wrench, attach the 133 assembly to the outlet port of the probe.
- If using a probe that is already installed, skip to step 3. If not, move on to step 2.

Step 2. Install the 133 assembly and probe into the process

- Follow the installation instructions included with your probe for this step.

Step 3. Connect tubing to the 133 assembly

- Connect tubing from the 133 assembly outlet port to the analyzer or next device in the system.

Operating Instructions

Note: The distance between the **Genie®** and the analyzer should always be minimized. If the sample dew point is typically above the ambient temperature, then heat tracing may also be required to prevent condensation.

- Maintain the sample flow rate through the Genie outlet port below the maximum recommended flow rate. This typically keeps the membrane differential pressure below 2 PSI, providing that all of the membrane area is available for flow. Very few liquid components will flow through the membrane when the membrane differential pressure is below 2 PSI.

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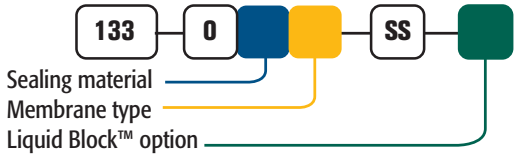
Model Numbering & Additional Part Numbers

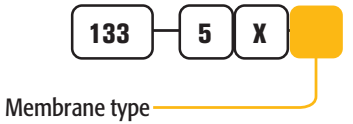
Your model number is determined by your specific needs. Choose options below.

Sealing material	0 = fluoroelastomer	1 = perfluoroelastomer	*(others available upon request)*
Membrane type	6 = Better Rejection; Rejects ALL types of liquids from vapor 7 = Highest Temps; Rejects ONLY high surface tension liquids		
Liquid Block™ option	Blank = No Liquid Block™	LB = Liquid Block™	
Mounting bracket	Part # 133-509-SS (sold separately)		

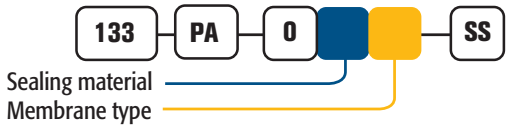
Model number:



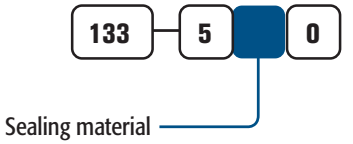
Replacement membrane kit number:
Five membranes per kit. O-rings sold separately



Assembly for probe mounting:
Refer to 760 or GPHV product sheet for probe dimensions and technical information.



Membrane replacement sealing material number:
One o-ring per kit.



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