

# GENIE®

probe regulator  
Model GPRiL™



U.S. Patents 6,357,304; 6,701,794; 6,904,816; 7,004,041

## 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
- ▶ Spot, composite, or continuous gas sampling in any process industry including natural gas, petrochemical, and oil refining.
- ▶ Extract a representative gas sample
- ▶ Gas sample conditioning inside the pipe or vessel

## Benefits

- ▶ API 14.1, GPA 2166 and ISO 10715 probe compliance
- ▶ Helps preserve sample integrity
- ▶ Helps improve safety of personnel and equipment
- ▶ Protects analyzers
- ▶ Reliable
- ▶ Economical

## Features

- ▶ Genie® Membrane Technology™
- ▶ Pressurized installation
- ▶ Vibration resistant
- ▶ Pressurized maintenance
- ▶ No dead volume
- ▶ Low internal volume
- ▶ J-Slot safety

## Quick Study

Liquid is the root of many problems when sampling natural gas, either by its condensing out of the sample gas after entering the sample system or carrying over from the pipeline into the probe. Entrained liquid is not always easy to locate. Sometimes it cannot be detected by sight, but, instead, by its impact on analysis or damage to an analyzer. With Genie® Probes & Probe Regulators, a Genie® membrane is inserted directly into a pipeline or vessel. This allows for separation of entrained liquids at the prevailing line pressure and temperature conditions. By separating entrained liquids at line pressure and temperature, sample integrity is maintained. Genie® Probes™ also remove all entrained liquids in a gas sample, making them the most effective filters on the market for protection against liquid damage during upset conditions. There are many types of probes or probe regulators, characterized by their installation methods, to suit your sampling needs.

**The GPRiL™** uses proven Genie® Membrane Technology™ to extract a representative gas sample and provide a safety net for protecting gas analyzers against liquid damage. This model is designed to install in lines that cannot be depressurized; the Housing Installation Tool™ is used to install the housing of the GPRiL™ through a full opening valve while the pipeline or vessel is still in service. Once installed, the housing includes a foot valve in its base, so the GPR™ probe can be inserted or retracted with a pressurized line or vessel. This model also features user defined pressure regulation, where the regulator seat is downstream of the membrane to prevent condensation.

## Technical Specifications

<b>Maximum pressure rating</b>	3,500 psig
<b>Maximum temperature</b>	225 °F (107 °C) without membrane 185 °F (85 °C) with membrane
<b>Port size</b>	Outlet: 1/4" female NPT
<b>Probe lengths</b> (for other lengths contact the factory)	L: 11", 14", 16", 19", 22", 24", 27" A: ~20", 23", 25", 28", 31", 33", 36" (refer to L & A dimensions on back)
<b>Outlet pressure range (psig)</b>	0-10, 0-25, 0-50, 0-100, 0-250, 0-500
<b>Installation valve requirement</b>	1 1/2" or 2" full opening valve
<b>Wetted materials</b>	Machined parts: 316 stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Foot Valve sealing material: Kalrez Standard Baseplate and Probe sealing material: Neoprene Standard Regulator seat material: Teflon® Membrane: inert



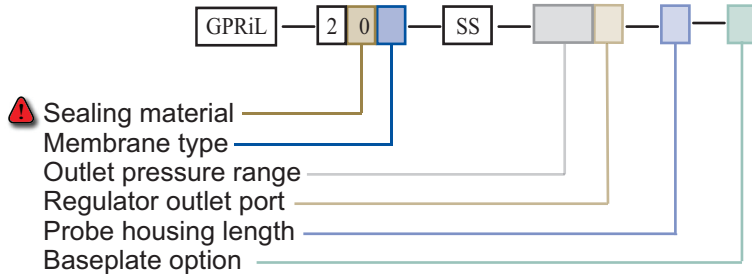
Genie®, Genie® Membrane Probe™, Genie® Probe Regulator™, GPiL™, GPRiL™, GPR™, GP2™, PIP™ and Genie® Membrane Technology™ are trademarks or registered trademarks of A+ Corporation, LLC. All other referenced trademarks are the property of their respective owners.

# Model Numbering & Additional Part Numbers

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

<b>Sealing material</b> ⚠	0 = Neoprene	<i>(other materials available upon request)</i>	
<b>Membrane type</b>	0 = No membrane	6 = Type 6/BTU	7 = Hi-Flow Backed
<b>Outlet pressure range (psig)</b>	00 = 0-25	01 = 0-50	02 = 0-100
	03 = 0-250	P4 = 0-500	09 = 0-10
<b>Regulator outlet port</b>	4 = 1/4" FNPT		
<b>Probe housing length (L)</b>	11, 14, 16, 19, 22, 24, 27 inches		
<b>Baseplate option</b>	Blank = 1 1/2" NPT	2 = 2" NPT	
<b>Membrane replacement</b>	Part # GP-506	<i>(contains 5 membranes per kit - sold separately)</i>	
	Part # GP-CMA-506	<i>(contains 2 complete assemblies - sold separately)</i>	

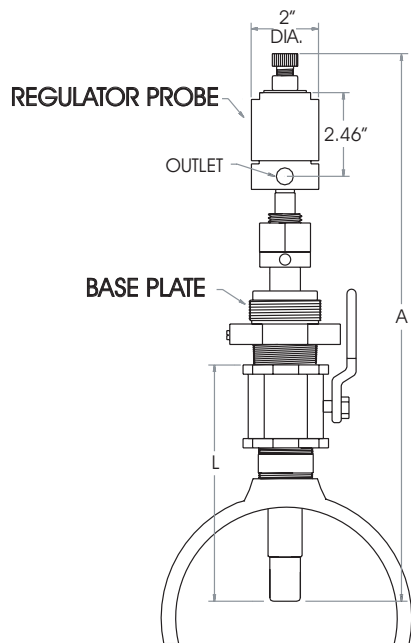
How to build the model number:



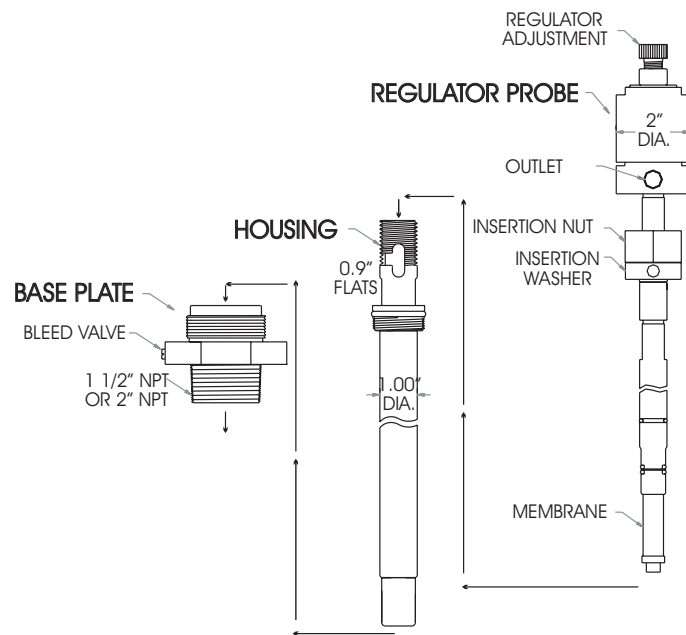
- ⚠ We cannot recommend specific sealing materials due to the complex nature of sample stream compositions. Temperature and pressure also may be factors.
- ⚠ Unless specified otherwise, the product will ship with our standard sealing materials and materials of construction stated in the technical specifications section of the corresponding Product Sheet. ⚠ Please refer to [www.dupontelastomers.com](http://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

### Assembled



### Components



### Local Distributor:

### 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](http://www.geniefilters.com)

Fax: (225)-644-3975 E-mail: [sales@geniefilters.com](mailto:sales@geniefilters.com)



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