GENIE®
membrane probe
Model GP1™

U.S. Patents 6,904,816; 7,004,041

Applications

- Protection against liquids
  - On-line and portable analyzers
  - GC's, Mass Specs, O_2, H_2S, 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

- Helps preserve sample integrity
- Helps improve safety of personnel and equipment
- Protects analyzers
- Reliable
- Durable
- Economical

Features

- Genie® Membrane Technology™
- Simple design
- Single-piece, machined housing - no welding
- Vibration resistant

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 GP1™ is a simple, safe, and economical solution to extracting a representative gas sample from a source. It is designed for metering runs that can be routinely depressurized for installation and membrane replacement. The GP1™ is available in 3" and 4.5" insertion lengths.

Technical Specifications

Maximum pressure rating	3,750 psig
Maximum temperature	185 °F (85 °C)
Internal volume	3" probe: 8.1 cc 4.5" probe: 8.2 cc
Port size	Outlet: 3/4" female NPT
Process connection	3/4" male NPT
Thread-o-let requirement	3/4" female NPT* *The inner diameter of all openings in pipe wall and thread-o-let must not be less than 0.910"
Wetted materials	Machined parts: 316 stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Sealing material: Neoprene standard Membrane: inert

A+

An ISO 9001:2008 certified company

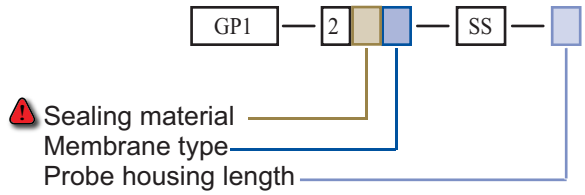
GENIE® sampling solutions

Model Numbering & Additional Part Numbers

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

Sealing material ⚠	0 = Neoprene	*(other materials available upon request)*
Probe housing length	Leave Blank = 3”	A = 4.5”
Membrane replacement	Part # GP-506	*(sold separately)*

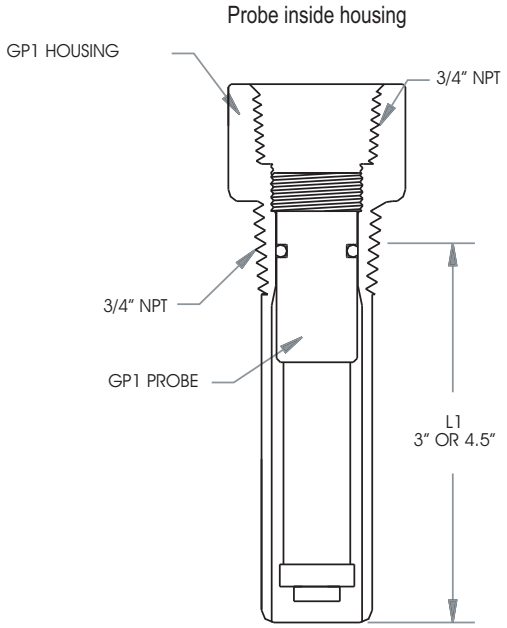
How to build the model number:



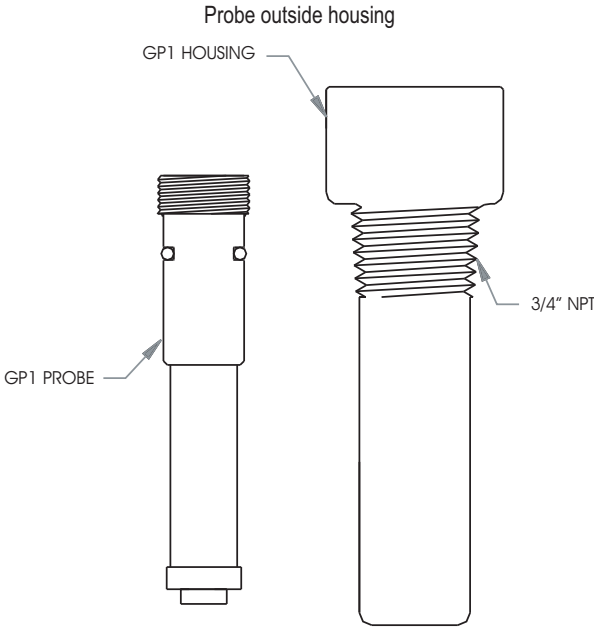
⚠ We cannot recommend specific sealing materials due to the complex nature of sample stream compositions. Temperature and pressure also may be factors. ⚠ Unless specified otherwise, the product will ship with our standard sealing materials and materials of construction stated in the technical specifications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

Cutaway Housing Side View



Side View



Local Distributor:

Manufacturer

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Call for expert product application assistance:

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