



**PORTABLE
INSERTION
P R O B E**



(Flow restrictor option shown here)

U.S. Patents 6,904,816; 7,004,041; 7,472,615; 7,617,745

Applications

- ▶ Protection against liquids
 - ▶ Portable analyzers
 - ▶ BTU, H₂S, Moisture, and others
- ▶ Spot gas sampling in any process industry including natural gas, petrochemical, and oil refining

Benefits

- ▶ Aids in API 14.1 compliance
 - ▶ Insertion depth
 - ▶ Use of probe
 - ▶ Liquid rejection
- ▶ Improves personnel safety
- ▶ Economical
- ▶ Easy to carry and install

Features

- ▶ Use as a sample probe with or without membrane
- ▶ Easy, quick, safe insertion and extraction from pressurized system
- ▶ Rugged
- ▶ Simple to use
- ▶ Finger tip operation
- ▶ Membrane shroud to protect membrane during continuous service

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 PIP™ Model 701 The PIP Model 701 is an adjustable length insertion probe that can be inserted/retracted into a pressurized line through a full opening valve without the use of a special insertion device. It is best suited for use with a portable analyzer or when spot sampling is being performed. The PIP Spot Sampling Manifold is recommended when using the PIP to extract a spot sample as it ensures that the sample path, from the process valve to the cylinder inlet valve, is thoroughly purged.

Liquid can be forced through any phase separation membrane when the flow rate through the membrane is too high resulting in excessive differential pressure across the membrane. Opening a ball valve downstream of the membrane to purge a sample cylinder during spot or composite sampling can cause this condition to occur. To safeguard against this excessive differential pressure, we offer an optional flow restrictor that limits the flow through the membrane so as not to exceed a 2 psig drop thus preventing liquids from being forced through the membrane. The flow restrictor should be selected when a Genie® Membrane Probe™ is used in spot and composite sampling applications. It is not necessary to use a flow restrictor when sampling from lines that have a very low pressure or when there will be a constant flow through the probe.

Technical Specifications

Maximum pressure rating	3,000 psig
Maximum temperature	225 °F (107 °C) without membrane 185 °F (85 °C) with membrane
Port size	Outlet: 1/4" female NPT
Insertion depth <small>(for greater insertion depths contact the factory)</small>	L: 11"
Installation valve requirement	1/2" or 3/4" NPT full opening valve
Wetted materials	Machined parts: 316/316L stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Dynamic sealing material: Kalrez standard Static sealing material: Neoprene standard Gasket seals: Teflon Anti-friction pad: Nylatron



An ISO 9001:2008 certified company



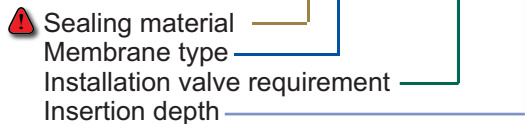
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Model Numbering & Additional Part Numbers

Your model number is determined by your specific needs. The following model numbers pertain to use in gas sampling applications. Choose options below.

Sealing material ⚠	7 = Neoprene	(other materials available upon request)	
Membrane type	0 = No membrane	6 = Type 6/BTU	7 = Hi-Flow Backed
Installation valve requirement	2 = 1/2" NPT	3 = 3/4" NPT	
Insertion depth (L)	11 = standard	(other insertion depths available upon request)	
Flow restrictor (recommended)	Part # ACC-SS-4-SA-EA	1/4" MNPT X 1/4" FNPT (sold separately)	
Optional manifold (recommended)	Part # 701-ACC-8111		
Membrane replacement	Part # 701-CMA-506 (contains 1 complete assembly) (sold separately)		

How to build the model number:



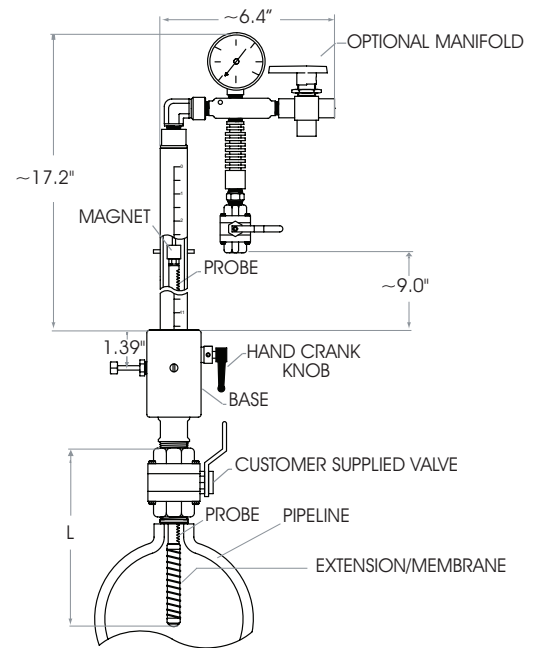
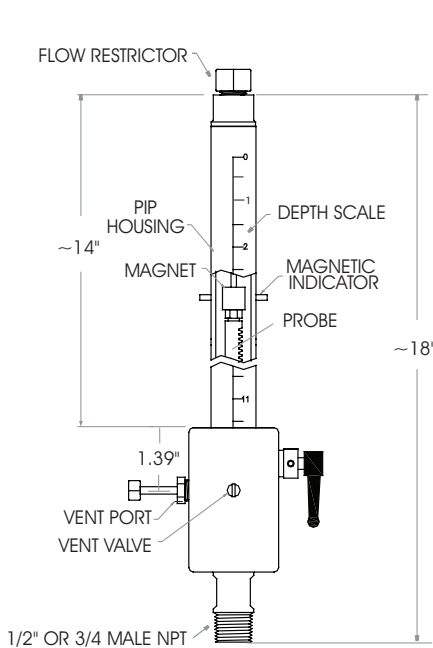
How to build the replacement membrane kit number:

(Five membranes per kit)



⚠ 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



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

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