The safest and most versatile membrane tip probes available on the market!

Liquid carryover from the pipeline into the sample system should be prevented when sampling natural gas as it can directly impact the analysis and damage the analyzer. Industry standards state that the equipment used to remove the liquid from the sample must be operated at flowing temperature and pressure conditions. Genie® Probes™ provide a means to insert Genie® Membrane Technology™ directly into a pipeline for the purpose of separating unwanted liquid and particulate from the gas sample at flowing conditions.

The Model 750 is an adjustable length, membrane tip probe designed to sample transmission quality natural gas. It can be inserted and extracted from a pressurized line through a full opening valve without the use of a special insertion device. This probe is offered with both threaded and flanged process connections, many different exotic materials of construction (Duplex SS 220, Hastelloy C276, Inconel 625, & Monel 400), and optional coatings from Silcotek™. The Model 750™ can be mounted vertically or horizontally, and its installation process is simple and straightforward.

A+ Corporation also offers a complete line of upstream and midstream gas and liquid sampling products. Contact the factory for more information.

**Product Brief**

**Applications**
- Continuous and composite gas sampling of transmission quality natural gas
- Sampling of various types of gases in the refinery & petrochemical industries

**Note:** This product is not recommended for sample streams containing Hydrogen in concentrations above the lower explosive limit (LEL).

**Benefits**
- Genie® Membrane Technology™
- Easy, quick, and safe insertion and extraction from pressurized systems without a special insertion device
- Horizontal or vertical mounting
- Velocity tested by CEESI flow lab up to 200 ft/sec
- API, GPA & ISO standard compliance

**Features**
- Unique, one piece body with Genie® Membrane Technology™
- Analytically Correct™ design
- Adjustable length with threaded or flanged process connection
- Proprietary antifriction coating with internal thread die
- Optional speed wrench for faster installation
- Optional hex adapter with ¼” female NPT outlet and integrated outlet shut-off valve

**Technical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum pressure rating</td>
<td>3,750 psig (258 Bar)</td>
</tr>
<tr>
<td>Temperature ranges</td>
<td>Up to 300°F (148.9°C) with non-standard seals and hi-flow backed membrane</td>
</tr>
<tr>
<td>Port sizes</td>
<td>Standard Outlet: 1/8” female NPT with factory installed adapter</td>
</tr>
<tr>
<td></td>
<td>Hex Adapter: 1/4” female NPT outlet with integrated outlet shut-off valve</td>
</tr>
<tr>
<td></td>
<td>Composite Sample Adapter: ¼” female NPT outlet</td>
</tr>
<tr>
<td></td>
<td>Auxiliary: 1/8” female NPT (plugged from factory)</td>
</tr>
<tr>
<td>Probe lengths</td>
<td>L: 8”, 12”, 18”, 24”, 36”</td>
</tr>
<tr>
<td></td>
<td>A: ~ 16”, 20”, 26”, 32”, 44”</td>
</tr>
<tr>
<td>Port sizes</td>
<td>3/4”, 1”, or 1.5” NPT full opening threaded</td>
</tr>
<tr>
<td></td>
<td>“Ball, gate, and double block and bleed valves are all suitable for use as long as their inner diameter is not less than ¾”</td>
</tr>
<tr>
<td>Wetted materials</td>
<td>Machined parts: 316 stainless steel /NACE compliant and Kevlar® threaded bushing</td>
</tr>
<tr>
<td></td>
<td>All other metal parts: stainless steel / NACE compliant</td>
</tr>
<tr>
<td></td>
<td>Sealing material: PTFE/Neoprene rubber standard Membrane: Inert</td>
</tr>
</tbody>
</table>
Model Numbering & Additional Part Numbers

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

<table>
<thead>
<tr>
<th>Sealing material</th>
<th>Membrane type</th>
<th>Process connection</th>
<th>Probe insertion length</th>
<th>Adapter</th>
<th>Sealing material replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = PTFE/Neoprene rubber</td>
<td>6 = Type 6/6TU</td>
<td>3 = 3/4&quot; NPT</td>
<td>8, 12, 18, 24, 36 inches</td>
<td>Blank = Factory installed adapter with 1/8&quot; NPT outlet</td>
<td>Part # 75X-570 (standard seals, sold separately)</td>
</tr>
<tr>
<td>(other materials available upon request)</td>
<td>7 = Hi-flow Backed</td>
<td>4 = 1&quot; NPT</td>
<td></td>
<td>A = Hex Adapter with 1/4&quot; NPT outlet and integrated outlet shut-off valve</td>
<td>Part # 75X-CMA-506 (contains 1 complete assembly sold separately)</td>
</tr>
<tr>
<td>(contact factory for flanged options)</td>
<td></td>
<td>6 = 1.5&quot; NPT</td>
<td></td>
<td>CSA = Composite Sample Adapter with 1/4&quot; NPT outlet</td>
<td>Part # ACC-SW (sold separately)</td>
</tr>
<tr>
<td>(36 inch probe not available in exotic materials)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Part # ACC-Q14KC (0-4.000 PSIG, sold separately)</td>
</tr>
</tbody>
</table>

How to build the model number:

750 SS

Sealing material
Membrane type
Process connection
Probe insertion length
Adapter

- The sealing mechanism for this probe is a packing gland. Just like the packing gland on a valve, it may be required to tighten the sealing nut occasionally as the sealing material wears. When sampling gases containing toxic levels of H2S or any other types of toxic gases, the technician should follow OSHA, state and local safety regulations while maintaining the packing gland seal and performing maintenance on the probe.

Dimensions

Uninstalled

7/16" WRENCH FLATS
INSERTION DEPTH MARKING NUTS

7/16" WRENCH FLATS

Installed

1/16" MALE NPT X
1/8" FEMALE NPT REDUCING ADAPTER

1/8" NPT PORT
1-3/8" WRENCH FLATS

1/8" NPT PORT
1-3/8" WRENCH FLATS

Dimensions

Uninstalled

7/16" WRENCH FLATS
INSERTION DEPTH MARKING NUTS

7/16" WRENCH FLATS

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1/16" MALE NPT X
1/8" FEMALE NPT REDUCING ADAPTER

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1-3/8" WRENCH FLATS

1/8" NPT PORT
1-3/8" WRENCH FLATS

A+ Corporation is the leader in Analytically Correct Sample Extraction and Conditioning Systems.

Contact us for expert product application assistance.

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41041 Black Bayou Road, Gonzales, LA 70737  An ISO 9001:2008 Certified Company

U.S. Patents 6,904,816; 7,004,041; 8,522,630; and other patents pending. Genie®, Genie® Membrane Technology®, Genie® Membrane Probes®, are trademarks or registered trademarks of A+Corporation, LLC. All other referenced trademarks are the property of their respective owners. © 2012 A+ Corporation. All rights reserved. SCC-750-PS_1013.