



GENIE® 702

Permanent Insertion Probe™

DASTEC S.R.L.

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The safest and most versatile probes available on the market!

Many companies have learned the hard way that liquid in the sample conditioning system will cause damage to analyzers and/or lead to inaccurate sample analysis. If the sample does not represent the source, then the whole reason for the analyzer is undermined, and repair or decontamination of an analyzer is time consuming and costly. By applying our Analytically Correct™ designs to your sampling system, you can prevent problems before they begin. We manufacture a wide variety of membrane probes, membrane probe regulators, and filter combinations that offer flexibility regarding installation requirements and can be customized to suit your specific sampling application.

Our patented Genie® Membrane Probes™ and Probe Regulators allow you to insert a Genie® Membrane directly inside the center one-third of the pipeline. We are the only manufacturer that can provide membrane tipped sample probes for insertion inside a pipeline or vessel. This provides the most efficient means for separating entrained liquid at pipeline pressure and temperature conditions. Using insertion probes having a membrane tip is the most practical means for conforming to API 14.1 and GPA 2166 standards when the source gas contains entrained liquids.

The PIP™ Model 702 is a simple, safe and economical solution to extracting a representative vapor phase sample from a source. Compared to the PIP™ Model 701, the Model 702 is designed for sampling at a specific depth in a pressurized pipeline so each length is customized to fit your application. The "PT" option allows for sampling while simultaneously providing pressure and temperature information at the extraction point. The 702 installs using a 3/4" or larger full opening ball valve in a vertical orientation. Our Pressure Balance™ technique effortlessly lowers the 702 probe into a pipeline without the force and bulky equipment associated with pneumatic or hydraulic methods. Once installed, the installation housing can be replaced with a shorter housing to accommodate partial retraction of the probe during pigging operations. The PT version includes a custom length, industrial, hinged top RTD and adapter which allows the RTD to be inserted through a built in thermowell once the probe is installed in the pipeline.

Technical Specifications

Maximum pressure rating	3,500 psig
Maximum temperature	225 °F (107 °C) without membrane 185 °F (85 °C) with membrane
Port sizes	Inlet: 3/4" or 1 1/2" male NPT Outlet: 1/8" female NPT Vent and Gauge: 1/8" female NPT
Insertion depth	Up to 10 feet
Installation valve requirement	3/4" NPT full opening valve
RTD	1/8" diameter
Wetted materials	Machined parts: 316/316L stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Sealing material: Neoprene rubber standard

Product Brief

Applications

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

Benefits

- Full compliance with API 14.1 and GPA 2166 standards
- Installation and maintenance can be performed without depressurizing pipeline
- Helps preserve sample integrity
- Improves safety of personnel
- Protects analyzers
- Reliable
- Durable
- Economical

Features

- Genie® Membrane Technology™
- Analytically Correct™ design
- Pressure Balance™ installation
- Vibration resistant
- Designed for quick purging
- Low internal volume
- No dead volume
- Membrane shroud provides protection from elements inside the pipeline
- Partial retraction housing to accommodate pigging operations



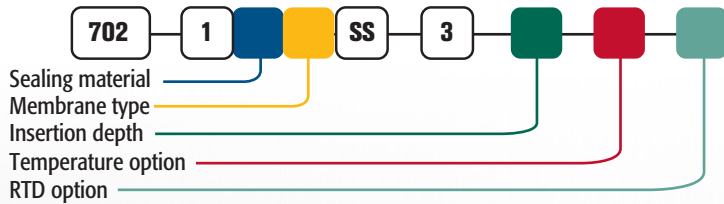
geniefilters.com

Model Numbering & Additional Part Numbers

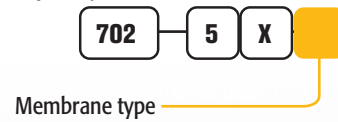
Your model number is determined by your specific needs. Choose options below.

Sealing material	7 = Neoprene rubber (other materials available upon request)
Membrane type	0 = No membrane 6 = Type 6/BTU 7 = Hi-Flow Backed
Insertion depth (L)	Custom length (specified in inches): up to a maximum of 10 feet
Temperature option	Blank = No temperature option T = Temperature
RTD option	Blank = No RTD R = RTD
Regulator coupling	ACC-SS-702-1 (recommended when attaching external regulator)
Membrane replacement	Part # 702-CMA-506 (contains 1 complete assembly) (sold separately)

How to build the model number:



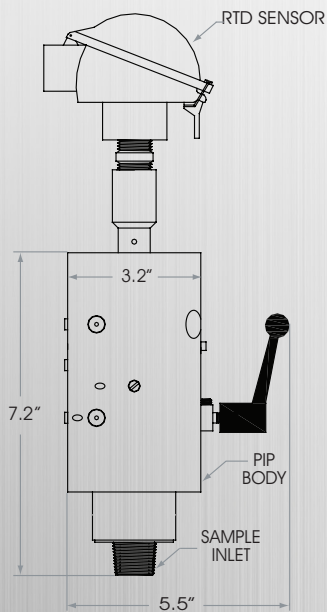
How to build the replacement membrane kit number: (Five membranes per kit.)



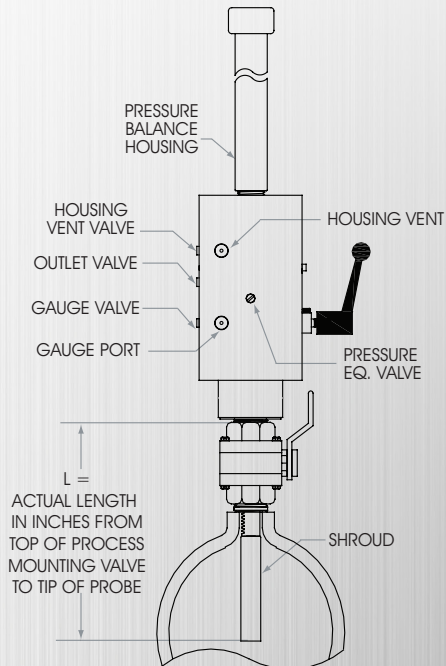
Not designed for external fire. Prior to use in a system, a properly sized relief device is to be installed which limits the use to 110% of the MAWP.

Dimensions

702 with Temperature Option



Model 702



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

Contact us for expert product application assistance.

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