



# GENIE<sup>®</sup> 702

Permanent Insertion Probe™

## Large enough for a 10' install yet small enough to fit in an enclosure!

Liquid in a sample conditioning system can damage analyzers and lead to inaccurate sample analysis; directly affecting the bottom line. Applying our Analytically Correct™ designs to your sampling system can prevent these occurrences.

Our Genie<sup>®</sup> Model 702 Permanent Insertion Probe is a simple, safe and economical solution to extract a representative vapor phase sample from a gas source. The 702 is designed for sampling at a specific depth in a pressurized pipeline; each length is customized up to 10 feet to fit your application. Our exclusive Pressure Balance™ technique allows you to effortlessly insert the probe without the need for additional tools or pneumatic and hydraulic methods. Once inserted, the installation housing can be replaced with a shorter one to accommodate partial retraction of the probe during pigging operations or placement into heated enclosures.

Pressure reduction options are available to help prevent condensation. This may eliminate the need for heat trace or a regulator at the extraction point but a regulator near the analyzer may be necessary to provide a stable pressure.

A separate RTD option 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.

We are the only manufacturer that provides Analytically Correct™ membrane tipped sample probes for insertion inside a pipeline or vessel. Using a membrane tip conforms to API 14.1 and GPA 2166 standards. Our patented Genie<sup>®</sup> Membrane Probes™ are the most efficient means for separating entrained liquid from the sample at source conditions.

### Technical Specifications

<b>Maximum pressure rating</b>	3,500 psig (241.3 bar)
<b>Minimum supply pressure</b>	50 psig (3.5 bar) with pressure reduction option
<b>Outlet pressure options</b>	Approximately 17%, 30%, or 55% of source pressure
<b>Temperature ranges</b>	-35 °F (-37.2 °C) to 185 °F (85 °C) with Type 6 membrane -35 °F (-37.2 °C) to 300°F (148.9°C) with non-standard seals and Type 7 membrane
<b>Port sizes</b>	Outlet, vent, and gauge: 1/8" female NPT
<b>Process connection</b>	3/4" NPT (standard) or 1 1/2" NPT (custom)
<b>Valve requirement (customer provided)</b>	Straight-through path with minimum bore of 0.75" (1.91 cm)
<b>Probe lengths</b>	L: 4ft (1.2 m) to 10 ft (3.0m), shorter lengths available A: (L) + (B)
<b>Wetted materials</b>	Machined parts: 316/316L stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Sealing material: Neoprene rubber standard Membrane: Inert



### Product Brief

#### Applications

- Continuous sampling from underground natural gas transmission lines and certain hazardous gas sources
- Retractable thermowell probe for measuring gas temperature
- Gas sampling of mixtures containing less than 30% hydrogen

#### Benefits

- Protects sample system from liquid and particulates
- Offsets JT cooling at pressure reduction point
- Insertion and retraction without pneumatic or hydraulic methods
- Source conditions monitored while sampling
- API 14.1 and GPA 2166 standards compliance
- Installation and maintenance without depressurizing line
- Helps preserve sample integrity
- Increases safety of personnel

#### Features

- Genie<sup>®</sup> Membrane Technology™
- Outlet pressure options
- Temperature option with RTD device
- Pressure Balance™ installation
- Partial retraction housing accommodates pigging operations or placement into enclosures
- Built-in ports and valves for purging vented gas
- Low profile above pipe

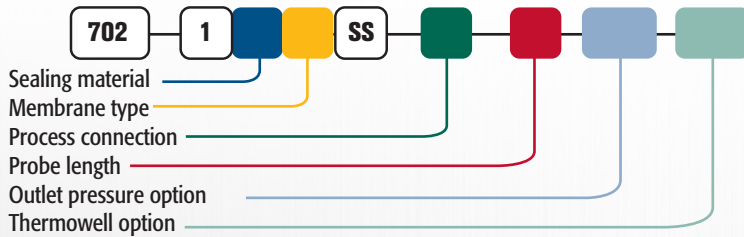


## Model Numbering & Additional Part Numbers

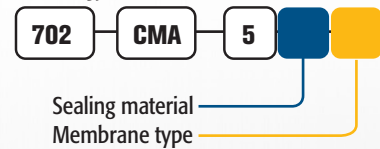
Your model number is determined by your specific needs. Choose options below.

<b>Sealing material</b>	7 = Neoprene rubber	J = RGD resistant HNBR	(other materials available upon request)
<b>Membrane type</b>	6 = Rejects ALL types of liquids from vapor	7 = Rejects ONLY high surface tension liquids	(not available with Thermowell option over 48")
<b>Process connection</b>	3 = 3/4" NPT	6 = 1 1/2" NPT (custom)	
<b>Probe length (L)</b>	Custom length (specified in inches): up to a maximum 120 inches.		
<b>Outlet pressure option*</b>	Blank = None	17 = 17% of source pressure	30 = 30% of source pressure    55 = 55% of source pressure
*Not available with RTD option			
<b>Thermowell with RTD option*</b>	Blank = None	T1 = 1/8" RTD (length 48" and under)	T2 = 1/4" RTD (length over 48")
*Not available with pressure reduction option			
<b>Regulator coupling</b>	ACC-SS-702-1 (recommended when attaching external regulator)		

### How to build the model number:

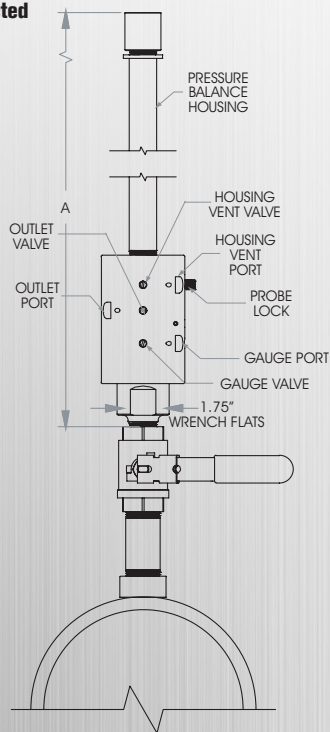


### How to build the replacement membrane number: (Contains 1 complete assembly)

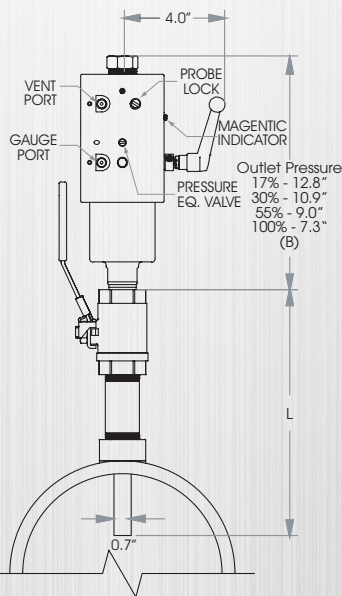


## Dimensions

702 Retracted



702 - Outlet Pressure Option



Local Distributor

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

Contact us for expert product application assistance.

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