

The safest and most versatile probes available on the market!

Liquid carry over from the pipeline into the sample conditioning system should be prevented when sampling natural gas as it can directly impact the accuracy of the compositional analysis and also damage the analyzer. Industry standards state that equipment used to remove 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 temperature and pressure conditions, in compliance with industry standards.

The GP2[™] probe consists of a housing and a membrane tip probe. The housing is installed in a depressurized pipeline through a vertically mounted thread-o-let or flange, and contains a "foot valve" in its lower end. Inserting the probe into the housing opens the "foot valve", allowing pipeline gas to flow freely through the membrane. Retracting the probe from the housing closes the foot valve, making it possible to perform probe maintenance without depressurizing the pipeline. This insertion/retraction method is considerably less expensive and complex than pneumatic or hydraulic methods.

An optional flow restrictor is available to prevent liquids from being forced through the membrane, and should be selected when the probe is being used in spot and composite sampling applications.



Product Brief

Applications

- Extract a representative sample from a multi-phase gas source
 - Spot, composite or continuous gas sampling
- Protection against liquids
 - Online and portable analyzers
 - BTU, H₂S, Moisture, and others

Benefits

- API 14.1, GPA 2166 and ISO 10715 probe compliance
- Helps to preserve sample integrity
- Protects analyzers
- Helps to improve safety of personnel and equipment
- Does not require hydraulic fluid
- Probe maintenance without line depressurization

Features

- Genie[®] Membrane Technology[™]
- Vibration resistant
- No dead volume
- Low internal volume
- J-slot safety

Technical Specifications

Maximum pressure rating	3,500 psig
Maximum temperature	185 °F (85 °C)
Internal volume	13.758 cc
Outlet port size	GP2: 1/8" female NPT; GPCSA: 3/4" female NPT
Process connection	3/4" or 1" 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" 1" female NPT* *Inner diameter must not be less than 1.141" for 1.1" diameter housing or less than 0.910" for 0.9" diameter housing
Mounting orientation	Vertical (Preferred), or 45° maximum angle relative to vertical required
Wetted materials	Machined parts: 316/316L stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Foot Valve sealing material: Perfluoroelastomer standard Probe sealing material: Neoprene rubber standard Membrane: inert

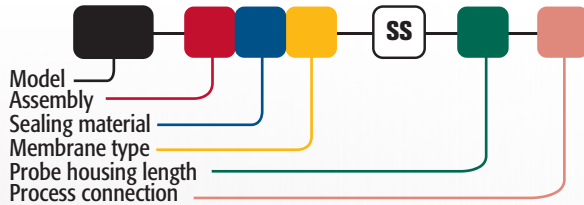


Model Numbering & Additional Part Numbers

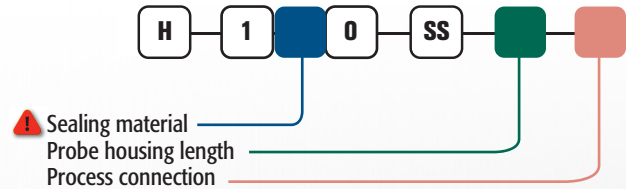
Your model number is determined by your specific needs. Choose options below.

Model	GP2 = Probe w/ 1/8" FNPT outlet	GPCSA = Probe w/ adapter for YZ, PGI, & Welker Sampler
Assembly	1 = without housing	2 = with housing
Sealing material	0 = Neoprene rubber	J = RGD resistant HNBR <i>(other materials available upon request)</i>
Membrane type	6 = Type 6/BTU	7 = Hi-Flow Backed
Probe housing length	Blank = 4"	B = 7" C = 9"
Process connection	Blank = 3/4" NPT x 0.9 dia.*	1 = 1" NPT x 1.1 dia. 1A = 1" NPT x 0.9 dia.*
	*Not recommended for welding	
Flow restrictor (recommended)	Part # ACC-SS-4-SRA2EA	1/8" MNPT x 1/4" FNPT <i>(sold separately)</i>
Membrane replacement	Part # GP-506	<i>(contains 5 membranes per kit - sold separately)</i>
	Part # GP-CMA-506	<i>(contains 2 complete assemblies - sold separately)</i>

How to build the model number:



How to build the housing model number:

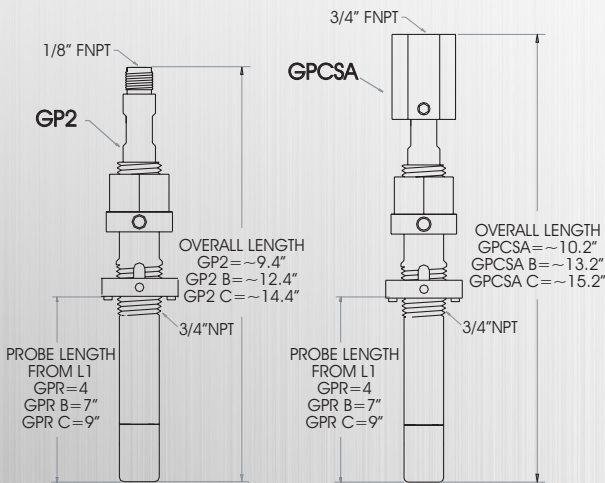


Not designed for external fire. Prior to use in a system, a properly sized relief device is to be installed which limits the use to 110% of the MAWP.

Dimensions

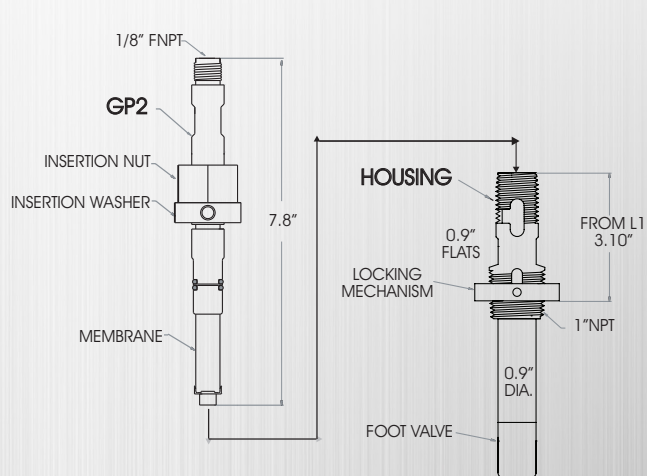
Inserted

3/4" NPT x 0.9" DIAMETER HOUSING SHOWN



Extracted

1" NPT x 0.9" DIAMETER HOUSING SHOWN



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

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