

GENIE

probe regulator
Model GPR™



Applications

- ▶ Spot, composite, or continuous gas sampling in any process industry including natural gas, petrochemical, and oil refining.
- ▶ Analyzer protection against liquids
 - ▶ On-line and portable
 - ▶ GC's, Mass Specs, O₂, H₂S, Moisture, and others
- ▶ Extract a representative gas sample
- ▶ Gas sample conditioning inside the pipe or vessel

Benefits

- ▶ Helps preserve sample integrity
- ▶ Helps improve safety of personnel and equipment
- ▶ Protects analyzers
- ▶ Reliable
- ▶ Economical

Features

- ▶ Genie® Membrane Technology™
- ▶ Vibration resistant
- ▶ No dead volume
- ▶ Low internal volume
- ▶ Adjustable outlet pressure
- ▶ J-Slot safety

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 GPR™ uses proven Genie® Membrane Technology™ to extract a representative gas sample and provide a safety net for protecting gas analyzers against liquid damage. This model's housing is designed to install under a depressurized line. Once installed, the housing includes a foot valve in its base, so the GPR™ probe can be inserted or retracted with a pressurized line or vessel. This model also features user defined pressure regulation, where the regulator seat is downstream of the membrane to prevent condensation.

Technical Specifications

Maximum allowable working pressure	3,500 psig
Maximum temperature	185 °F (85 °C)
Maximum recommended flow rate (for higher flow rates contact the factory)	6 L/min
Internal volume	13.758 cc
Outlet port size	1/4" female NPT
Minimum pipeline size	2" with -T housing
Outlet pressure range	0-10, 0-50, 0-100, 0-250, 0-500 psig (other ranges available upon request)
Housing mounting	3/4" male NPT (1" NPT housing available upon request)
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"
Wetted materials	Machined parts: 316 stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Foot Valve o-ring: Kalrez (other materials available upon request) Probe o-ring: Neoprene (other materials available upon request) Regulator seat material: Teflon® Membrane: inert

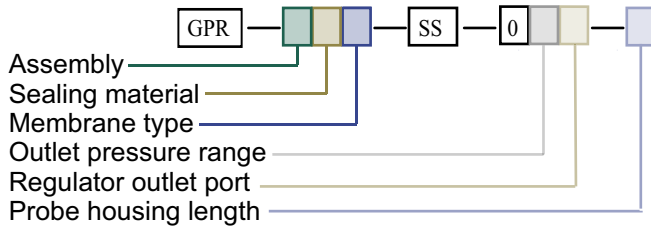


Model Numbering & Additional Part Numbers

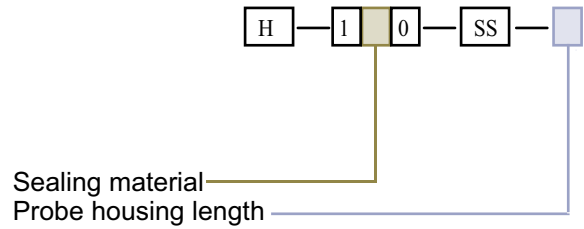
Your model number is determined by your specific needs. Choose options below.

Assembly	1 = GPR without housing	2 = GPR with housing			
Sealing material	0 = Neoprene	(other materials available upon request)			
Membrane type	5 = Type 5	6 = BTU	7 = Hi-Flow Backed		
Outlet pressure range	1 = 0-50	2 = 0-100	3 = 0-250	P = 0-500	9 = 0-10 psig
Regulator outlet port	1 = 1/4" MNPT to 1/8" tube connector		4 = 1/4" FNPT		
Probe housing length	Blank = 4"	B = 7"	C = 9"	T = 4" *	
Membrane replacement	Part # GP-506 (sold separately)				

How to build the model number:



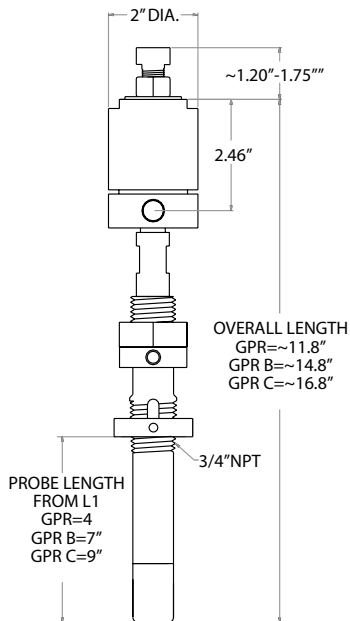
How to build the Genie® housing model number:



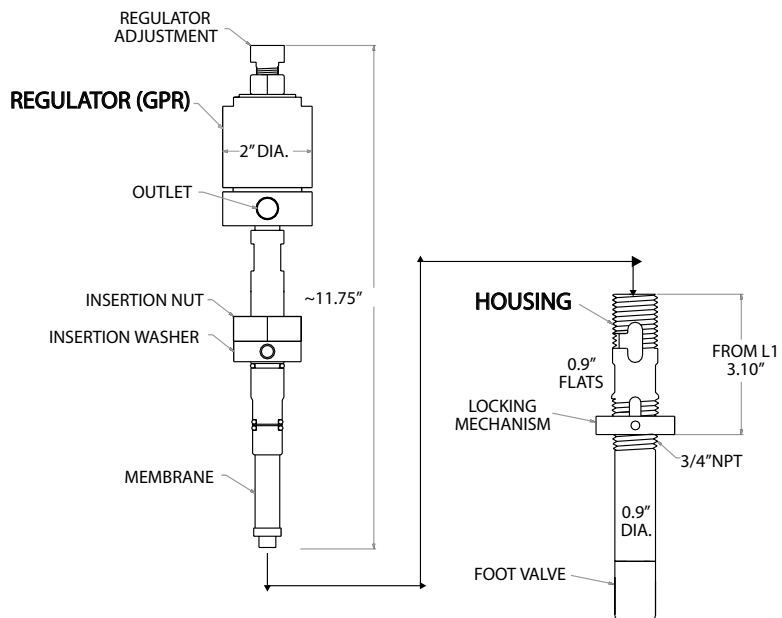
* May be used when the 4" housing insertion length extends further than is desirable in a pipeline with an OD of 2-3". The housing extends 1" into the pipeline.

Dimensions

Inserted



Extracted



Local Distributor:

Manufacturer

A+ Corporation, LLC

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Gonzales, LA 70737

Call for expert product application assistance:

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