



ASPROC

GAS SAMPLE PROBES
AND SAMPLE CONDITIONING SYSTEMS

+39 055 9705134 info@asproc.net www.asproc.net



API 14.1, GPA 2166 ISO 10715 Probe Compliance

With Genie® Probes & Probe Regulators, a Genie® **membrane is inserted directly into a pipeline** or vessel which 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.



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.

Retracting the probe from the housing closes the foot valve, making it possible to perform probe maintenance **without depressurizing** the pipeline.

The GPSD™ is designed specifically **for small diameter 2” or 3” pipelines**. The GPSD™ uses proven Genie® Membrane Technology™ to extract a representative gas sample and provide a safety net for protecting gas analyzers against liquid damage.

Pressure regulator as option



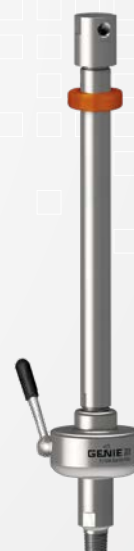
The two-piece GPR™ consists of a housing containing a foot valve on its lower end, and a membrane tip probe regulator. **Sample pressure is then reduced immediately downstream of the membrane, inside of the pipeline.** The heat then transfers from the pipeline to the regulator to prevent excessive Joule-Thomson cooling during pressure regulation.





The Model 755™ is an **adjustable length**, membrane tip probe regulator designed to sample transmission quality natural gas. **The pressure regulator is built into the probe immediately downstream of the membrane, inside of the pipeline.** Heat is transferred from the flowing pipeline gas to the regulator to prevent excessive JouleThomson cooling, helping to prevent condensation during pressure let down. This model **can be inserted and extracted from a pressurized line through a full opening valve** without the use of a special insertion device.

Genie® Model 701 **Portable Insertion Probe** is a simple, safe and economical solution to extract a representative vapor phase sample from a gas source. The **exclusive Pressure Balance™** technique allows for effortless insertion of the probe without the need for additional tools or pneumatic and hydraulic methods.



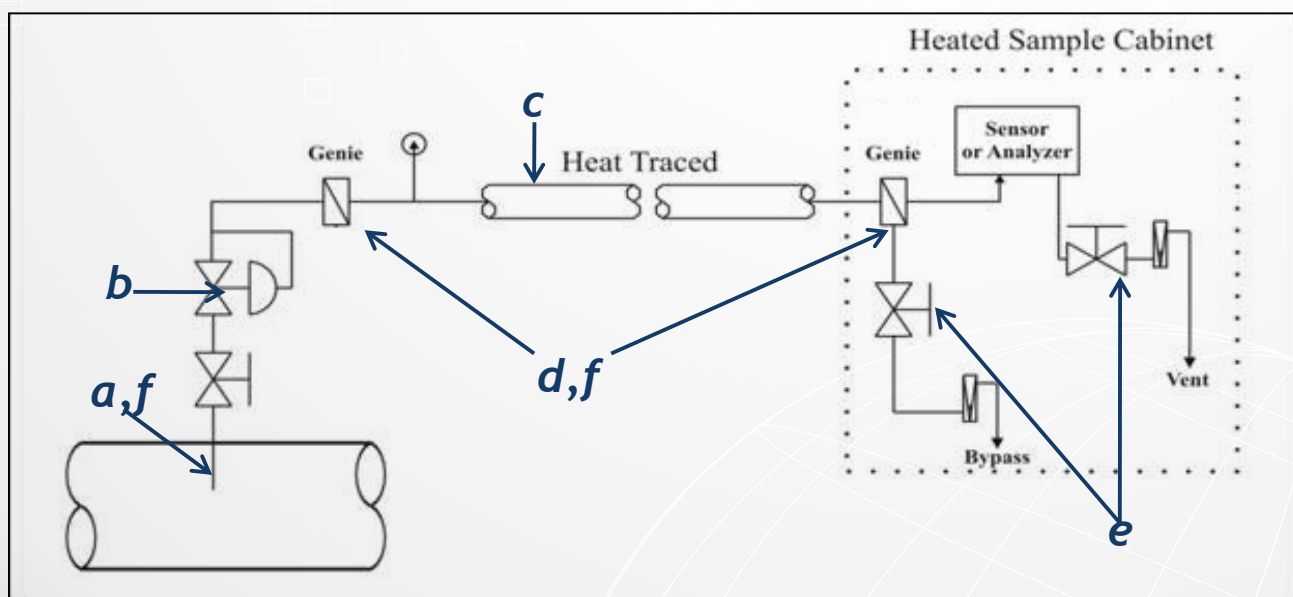
Genie® Model 702 Permanent Insertion Probe™ is a simple, safe and economical solution to extract a representative vapor phase sample from a gas source. **The 702 is designed for sampling at a specific depth in a pressurized pipeline;** each length is customized up to 10 feet to fit your application. Our **exclusive Pressure Balance™** technique allows you to effortlessly insert the probe without the need for additional tools.





The 100 Series Genie® Supreme Membrane Separators™ incorporate the legendary phase separation Genie® Membrane. The Genie® Membrane Technology™ allows only vapor to pass through while any liquids or particulates are rejected and thus kept out of the analyzer.

SAMPLE CONDITIONING SYSTEM TASKS



- a) Extract representative sample of the gas (most important task)
- b) Reduce (regulate the pressure)
- c) Transport the sample to the analyzer
- d) Protect the analyzer
- e) Control flow rate
- f) Remove contaminants

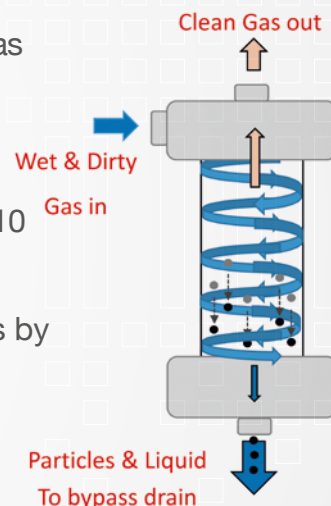


MERLIN PRE-CONDITIONING SYSTEM

- Employs cyclonic centrifugal forces
- No moving and consumable parts, Significant savings in maintenance costs
- Removes particulates up to 10 micron or finer
- No filter, No clogging issues
- Innovative break through concept for maintenance-free critical fast loop primary filtration



- Specially engineered for optimal separation at low gas flowrate.
- From 30-350 NL/h, tested to max. 2000 NI/h.
- Proven to remove liquid droplets and particles up to 10 micron effectively from the gas phase.
- Good separation achieved in typical gas applications by large density difference.
 - Gas Density: typically 2-10 kg/m³.
 - Liquids/Particles Density: typically 1000 to 7750 kg/m³.



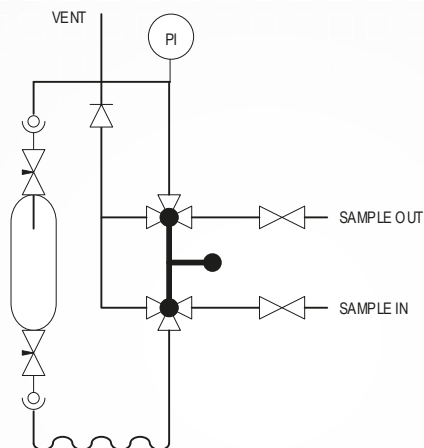
ASSEMBLED AND TAILORED SOLUTIONS



Assembled and tailored solution for each specific customer application.

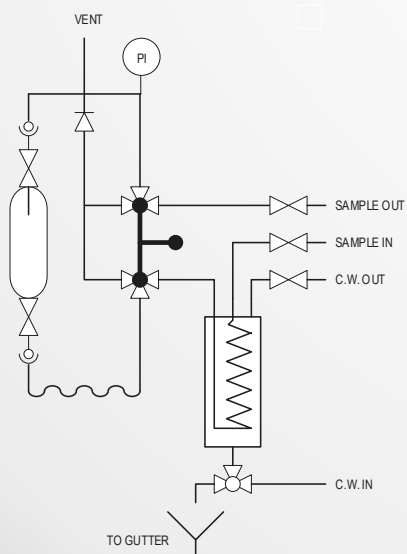


MANUAL SAMPLING PANEL



Gas Sampling Panel

Bypass/Circulation Configuration
For hazardous & low temperature gas or liquefied gas samples.



Hot Gas Sampling Panel

Bypass/Circulation Configuration
For hot hazardous & low temperature gas or liquefied gas samples.

