



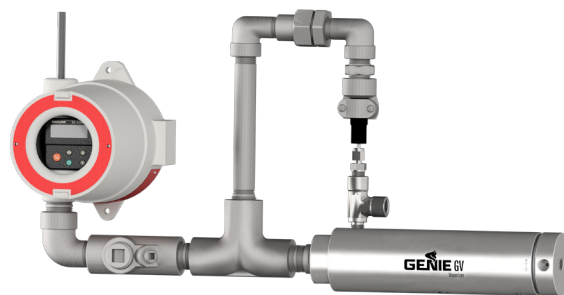
## Five times more heat transfer capacity than vaporizing regulators!

Typical vaporizing pressure regulators do not provide the conditions required for proper liquid sample vaporization when a high volume or flow of vaporized sample is required. This is due to their lack of flash vaporization capability and insufficient heat exchange capacity. The Model GV Genie® Vaporizer has five times more heat transfer capacity than current vaporizing regulators and is designed for instantaneous flash vaporization of liquid sample streams that require more heat transfer capacity than conventional vaporizing regulators can supply. For example, the GV can provide up to 23 liters per minute of vaporized propane at 110 VAC.

The design of the vaporizer allows liquid sample to be maintained below its bubble point pressure and temperature until it enters the flash chamber where it is instantaneously vaporized. Heat for vaporization is transferred from an electrical cartridge heater to a low volume flash chamber having a very large heat transfer surface area. The flash chamber is designed to maintain a homogenous vaporized sample. Heat is distributed evenly throughout the flash chamber, resulting in longer heater life and efficient vaporization without partial fractionation of the sample components. The net result is a uniform, homogenous vaporized sample that is representative of the liquid sample composition.

### Technical Specifications

<b>Maximum pressure rating</b>	3,000 psig (206.8 Bar) at -40-300°F (-40-149°C)
<b>Temperature control range</b>	95-300°F (35-150 °C) The vaporizer temperature is factory set at 300°F (149°C).
<b>Backup thermal cutoff</b>	Opens at 338°F (170°C)
<b>Internal volume</b>	40cc
<b>Port sizes</b>	1/4" female NPT
<b>Conduit connection</b>	3/4" female NPT
<b>Electrical approval</b>	<b>CSA Certified Assembly:</b> File # 235766 Protection Type: Class 1, Division 1, Groups B, C & D, Temp Code T3 Ambient temperature: -0.4°F (-18°C) to 149°F (65°C)
<b>Power requirements</b>	110/240 VAC, 47-63 Hz
<b>Power output</b>	375 W @ 110 VAC 1,500 W @ 240 VAC
<b>Wetted materials</b>	Machined parts: 316/316L stainless steel / NACE compliant All other metal parts: stainless steel / NACE compliant Sealing material: Fluoroelastomer (other materials available upon request)



### Product Brief

#### Applications

- Vaporizing liquid sample streams in any process industry when a high volume or flow of vaporized sample is required
  - Petrochemical plants
  - Refineries
  - Natural Gas - LNG & NGLs

#### Benefits

- Delivers a homogenous vaporized flow rate representative of the liquid sample
- Excellent temperature control
- No premature flashing or partial fractionation
- Installation flexibility
- Fail-safe with max temperature of 338°F

#### Features

- High capacity electrical cartridge heater
- Discrete hot and cold zones
- Continuous liquid bypass
- Versatile conduit and bypass connections
- Proportional temperature controller
  - Digital temperature readout
  - Backup thermal cutoff



## Model Numbering & Additional Part Numbers

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

## Sealing material

0 = Fluoroelastomer

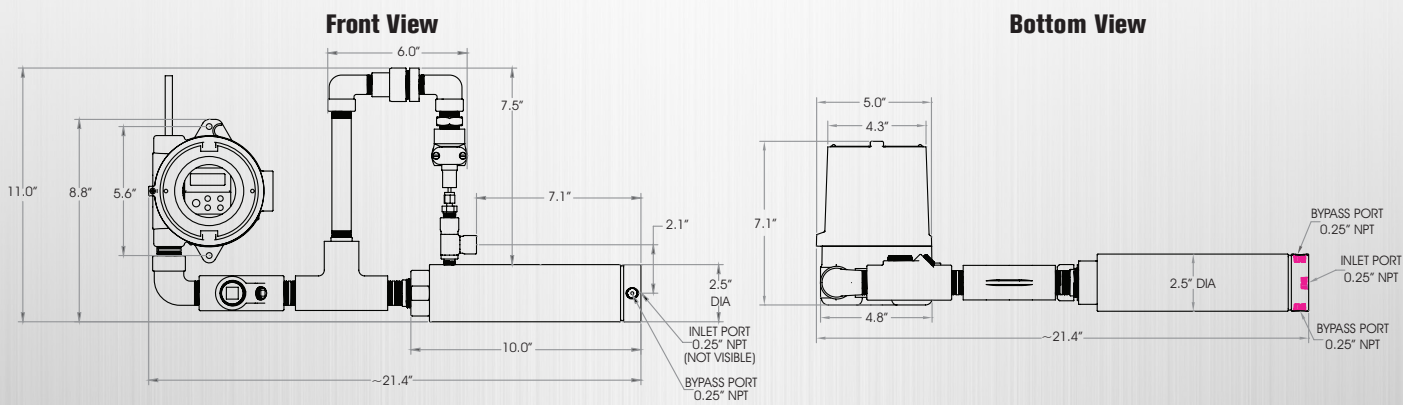
1 = Perfluoroelastomer

(other materials available upon request)

### How to build the model number:



## Dimensions



### Local Distributor

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

Contact us for expert product application assistance.

**sales@geniefilters.com > 225.644.5255 > Fax 225.644.3975**

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