

MIV3[®]

Mustang Intelligent Vaporizer Sampling System[®] - Model 3

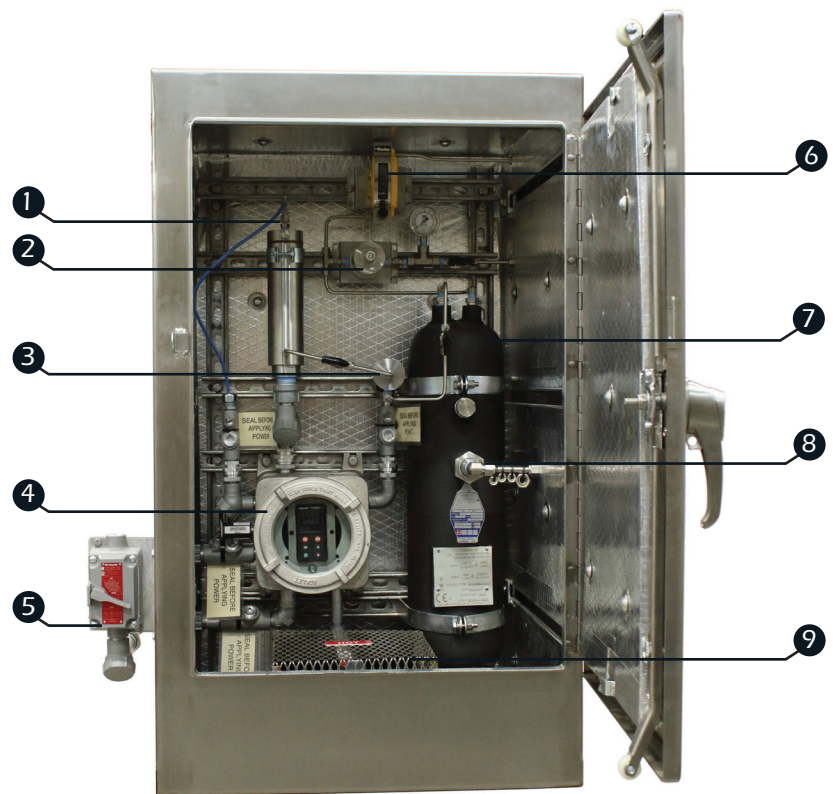
Item Number	Description
1	Single Path Mustang [®] Vaporizer
2	Mustang [®] Regulator
3	Cryogenic Solenoid Valve for Low Temperature Alarm
4	PID Temperature Controller
5	Isolation Switch for Incoming Power
6	Armored Flowmeter with Valve for Speedloop
7	Mustang [®] Accumulator
8	Rupture Disc for Overpressure Protection
9	Cabinet Heater with Thermostat

APPLICATION

The Mustang Intelligent Vaporizer Sample Conditioning System[®] – Model 3 (MIV3[®]) provides a fresh spot gas sample from an LNG stream for non-custody transfer applications. The system is operated manually but delivers an Analytically Accurate[®] sample through controlled vaporization, accumulation, and homogenization through a multiple stage system.



Mustang Sampling[®]



FEATURES

- Continuous gas flow design
- Integral flow restrictor on inlet
- NEMA 4X Enclosure

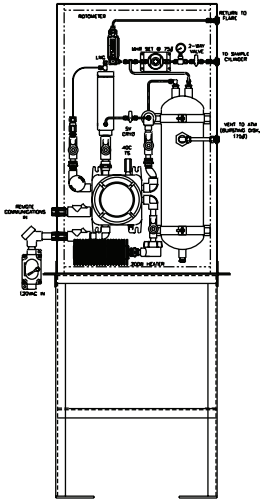
BENEFITS

- Instantaneous vaporization of a liquid sample
- Prevents post-vaporization hydrocarbon liquid dropout
- Provides a homogenous sample
- Provides an accurate and reliable representative sample
- Easy maintenance
- Supplies manual grab samples to multiple analyzers
- Dedicated software platform for operating, monitoring, trending, and reporting (see SoftView[®] Monitor)

CERTIFICATIONS

- ATEX/IECEx Certifiable

PRODUCT DIMENSIONS



MIV3: Front View

PRODUCT SPECIFICATIONS

Maximum allowable working pressure	3000 psig at -360°F (207 bar at -218°C)
Proportional temperature control range	0°F to 200°F (-18°C to 93°C)
Thermal cut-off	Opens at 284°F (140°C)
Port Sizes	1/4" female NPT
Conduit connection	3/4" female NPT
Electrical enclosure constructed for hazardous locations	Class 1, Division 1 & 2, Groups C, D, T3, Zone 1
Wetted materials	Machined parts: 316 stainless steel/NACE compliant All other metal parts: stainless steel/NACE compliant; (other materials available upon request)
Input Supply Voltage Options	120 VAC , 400 Watts 240 VAC , 400 Watts
Certification Options	AI Atex/IECEX Certifiable CE cETLus Certifiable

Use the bold alpha-numeric characters from the table above to build your model number:

MIV3 - -
 Input Supply Voltage / Certification

VAPORIZATION & REMIXING STAGES

VAPORIZING: Available in a single-path design. The MIV3 flash vaporizes liquid samples for introduction into gas analysis systems. Liquid samples are maintained near line conditions until reaching a flash chamber within the vaporizer, preventing pre-vaporization. The energy for vaporization is provided by an electric cartridge heater with sufficiently large surface area to maintain a stable gas temperature throughout the process and send the sample to the Mustang® Accumulator for restructuring.

ACCUMULATING: The Mustang® Accumulator Cylinder is designed with a special impingement tube to aid in the absorption of pressure pulsations and homogenization of gasified LNG.

A vapor return bypass flow control system is controlled by an armored flowmeter with a valve. The vapor is sent to the vapor return or flare.

PRESSURE REGULATING: This system uses a non-heated regulator to reduce the pressure to the sample cylinders.

Analytically Accurate®
TECHNOLOGY

About Mustang Sampling

Mustang Sampling, LLC is the innovator of Analytically Accurate® solutions within sample conditioning systems. We provide custom solutions of products and services globally to the Natural Gas, Natural Gas Liquids (NGL), and Liquefied Natural Gas (LNG) industries. Mustang Sampling continues to pioneer integrated control systems, allowing our customers to maintain phase stability from sample extraction at the source through sample analysis. Our products are continuously improved and subjected to the highest quality standards which provides our customers with the best sample conditioning solutions.

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