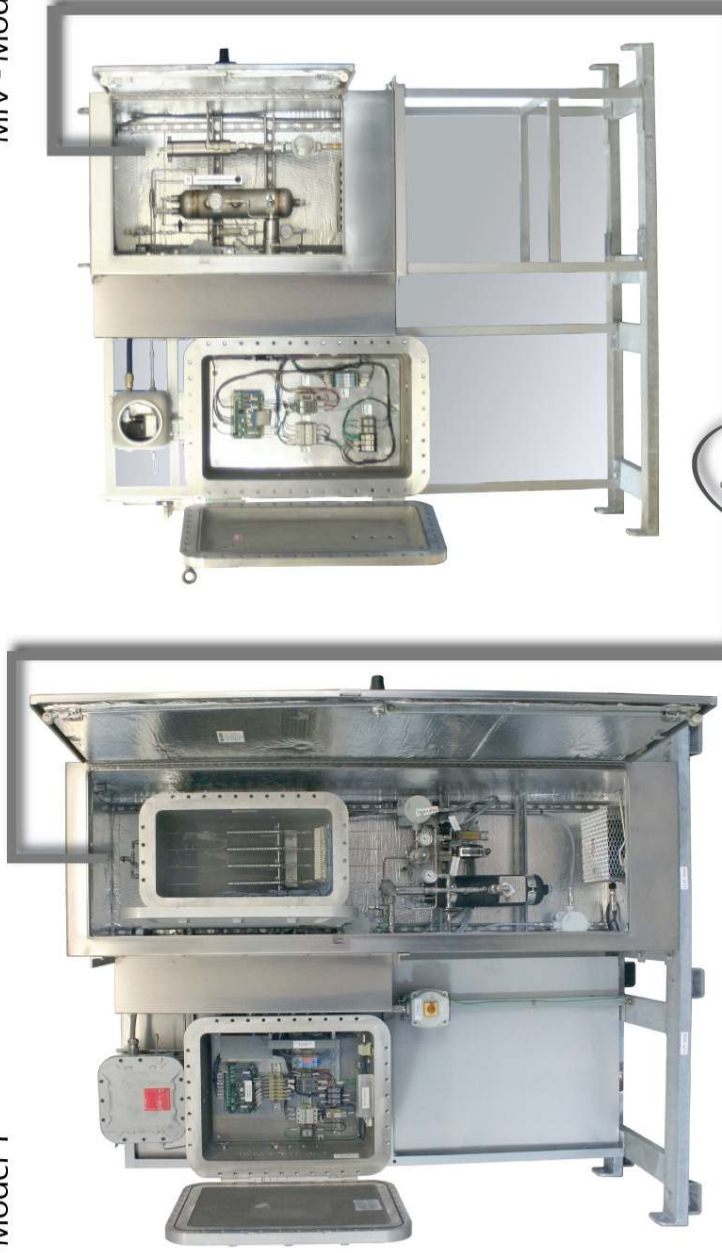


ISO 8943 Compliant Patented Sampling Technology

Mustang Intelligent Vaporizer Sample Conditioning System®

MIV - Model 1



Homogenizes & absorbs pressure pulsations

Constant flow ratio of gasified LNG

Constant gas pressure to analyzer & sample system

Supervision of temp., press., & fast loop

Top to bottom flow - no entrapment of heavies

Pressure regulator located downstream of outlet

Pressure regulator capacity > max flow

1400/2000 watt redundant heaters

The design of the Mustang Intelligent Vaporizer Sampling System® includes a heated stainless steel cabinet with optional weather awning. A cryogenic isolation valve between the vaporizer and accumulator increases safety while optional SoftView® software increases ease of operating, monitoring, trending, and reporting.

Vacuum Jacketed Tubing

.065" Wall (.120" I.D./250" O.D.)

Insignificant amount of heat loss during transfer

Non-conductive spacers reduce heat transfer

Sample extracted from center 1/3 of pipe

Tapered shaft; horizontal installation design

Durable construction 304 & 316 SS



Certiprobe® LNG Sample Extractor

Mustang Composite Sampling System



Reduced sample lag time piping arrangement

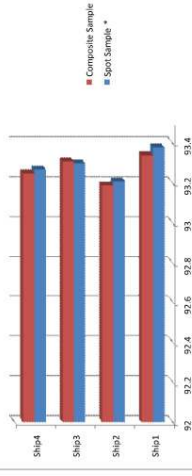
Sample purging accumulator

Consecutive sampling - Constant flow rate design

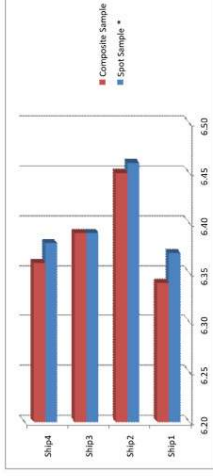
Durable construction 304 & 316 SS

Results from Composite Sample

Methane Measurement	Ship1	Ship2	Ship3	Ship4
25% Spot Sample	93.33	93.23	93.27	93.24
50% Spot Sample	93.47	93.22	93.32	93.31
75% Spot Sample	93.38	93.17	93.31	93.27
Average	93.38	93.21	93.30	93.27
Composite Sample	93.34	93.19	93.31	93.25



Ethane Measurement	Ship1	Ship2	Ship3	Ship4
25% Spot Sample	6.42	6.43	6.42	6.40
50% Spot Sample	6.32	6.45	6.34	6.39
75% Spot Sample	6.37	6.46	6.39	6.38
Average	6.34	6.45	6.39	6.36
Composite Sample	6.34	6.45	6.39	6.36



The Mustang Composite Sampling System provides a representative gas composition sample by taking small bite size samples over a period of time. An initial purge cycle does a complete system purge including lines and containers / holder at the beginning of each operation. Sample pumps, the grab sample cylinders, and the composite sample system are housed within the system and consists of the HMI/SCADA control software and the composite sampling system.



Mustang Sampling®

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www.mustangsampling.com

