

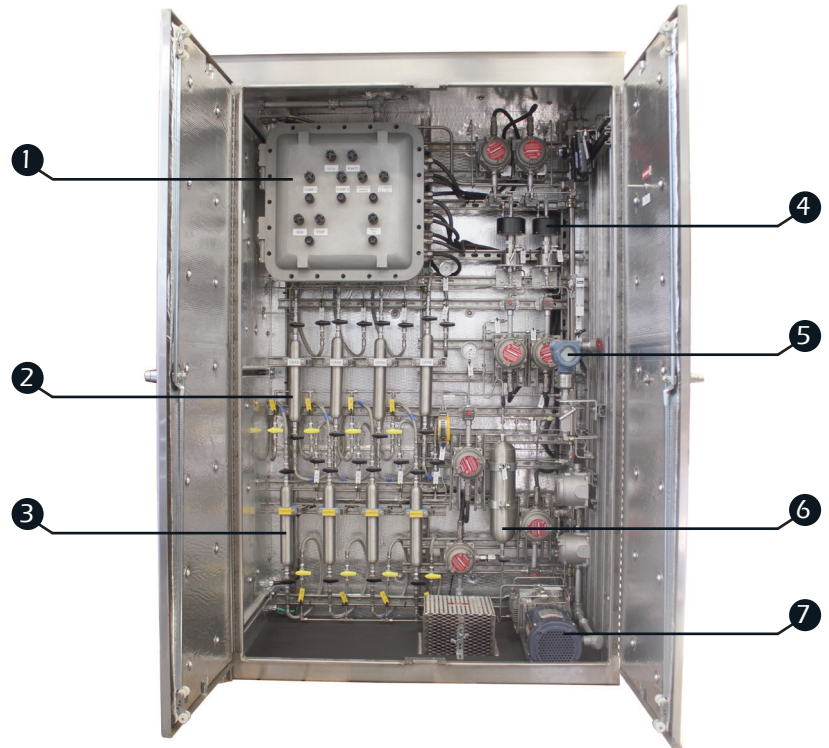
MCSS®

Mustang® Composite Sampling System



Mustang Sampling®

| Item Number | Description |
|-------------|----------------------------|
| 1 | Control Station |
| 2 | Grab Sample Cylinders |
| 3 | Composite Sample Cylinders |
| 4 | Sample Pumps |
| 5 | Pressure Transmitter |
| 6 | Accumulator |
| 7 | Vacuum Purge Pump |



APPLICATION

The Mustang Composite Sampling System (MCSS®) is an intermittent, waterless sampling system for liquefied natural gas which is compliant with the requirements of ISO 8943 (International Organization for Standardization, Sampling of Liquefied Natural Gas, Continuous and Intermittent Methods). The system accumulates a representative sample by capturing small samples at regular intervals, either fixed or proportional to flow rate. The sampling process is a cycle which begins with evacuating the tubing and sample cylinders throughout the system. As sampling commences, small fixed volumes of gas are captured and pumped into the accumulator. These volumes are adjustable in both size and sample frequency. Once the sampling process is complete, the accumulated volume's composition is representative of the entire process cycle. The gas within the accumulator can be transferred into the gas sample cylinders. Additional spot samples may be obtained at any point throughout the process. The cycle can be

repeated by replacing the sample cylinders and beginning the evacuation process.

FEATURES

- Temperature controlled enclosure
- SoftView® Composite HMI Software for remote control
- Quick Disconnect Cylinders
- ISO 8943 Compliant
- Vacuum Pump Purge
- Compact Design
- Adjustable Sample Size
- NEMA 4X Enclosure

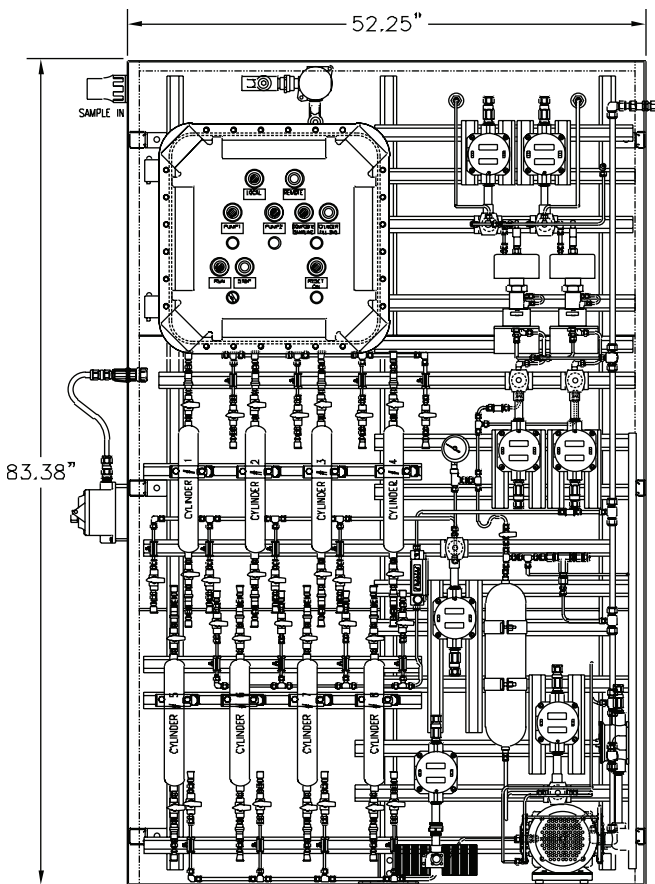
BENEFITS

- Familiar, PC based MMI with remote capability
- Remote and local control
- Fast & easy sample cylinder retrieval
- Does not require building
- Suitable for custody transfer
- Small footprint
- Configurable composite sample volumes

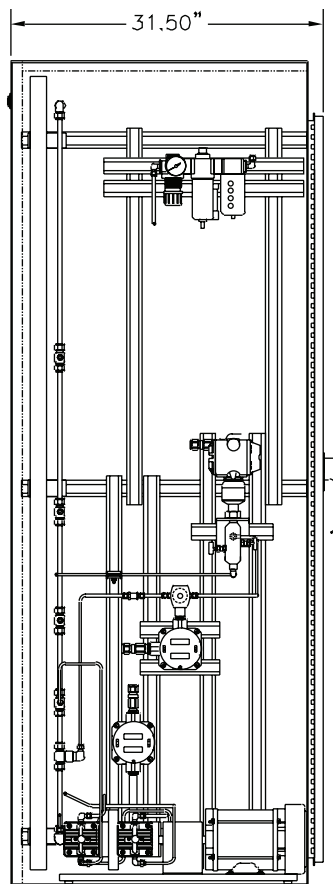


LNG

PRODUCT DIMENSIONS



Front View



Side View

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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U.S. Patent 9,562,833

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MS-CSMCS.v5-EN-P September 2019
Supersedes: MS-CSMCS.v4-EN-P

PRODUCT SPECIFICATIONS

| | |
|---|--|
| Maximum Allowable Working Pressure | 800 psig (55 bar) |
| Proportional Temperature Control Range | 0°F to 280°F (-18°C to 138°C) |
| Adjustable Composite Sample Volume | 0.5 to 3 cc every 2 seconds |
| Vacuum Purge | Less than 1 psia |
| Electrical Classifications | Class 1, Division 1 & 2, Groups C, D, T3 (CE Ex II 2 G Ex d II B T3 Gb Zones 1 & 2) |
| Port Sizes | 1/4" Tube Fitting Sample Inlet 1/2" Tube Fitting Sample Return |
| Conduit Connection | 3/4" female NPT |
| Wetted Materials | Machined Parts: 316 SS/NACE Compliant All other metal parts: SS/NACE Compliant (other materials available upon request) |
| Input Supply Voltage Options | 120 VAC , 1200 Watts, 50/60 Hz, ± 10% 240 VAC , 1200 Watts, 50/60 Hz, ± 10% 230 VAC , 1200 Watts, 50/60 Hz, ± 10% |
| Evacuation Options (Vacuum Purge Pump) | VAC uum Purge Pump (Standard Design) VEN turi Vacuum Pump (N ₂ supply required) |

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

MCSS - -
 Input Supply Voltage / Evacuation Option