Product Loading Systems

Modular solutions for safe and efficient loading operations

Reduce uncertainty, increase throughput and improve HSSE performance

EMERSON™

Emerson's Product Loading Systems deliver total terminal loading solutions

"Stringent fuel regulations have multipled the number of refined products, as well as terminals' fiscal reporting calculations and HSSE obligations. Major pipelines currently move 100 - 120 distinct products, compared with 10 - 20 in the 1960s."

- Industrial Flow Measurement

What if you could...

Accurately account for product quantity with a fully integrated solution

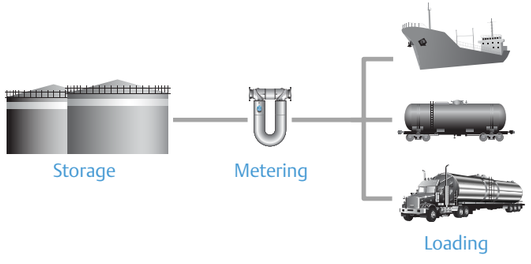
- Accurate and sustainable flow measurement over time with the most accurate and reliable metering equipment available

Increase throughput while accommodating multiple product types and grades

- A modular design approach optimizes terminal bay layout, increasing the throughput of transportation units
- Configure the solutions with metering and loading equipment per your requirements for multiple product types

Minimize safety risks and ensure lifecycle sustainability

- Sustained fiscal measurement performance and repeatability ensure accurate batch loading with automated loading operations and safety interlocks to mitigate overspills and incorrect batching
- Single point of responsibility for the entire system, reduced complexity, and local service and support presence



A total product loading system enables best-in-class measurement accuracy, personnel safety, and product flexibilty designed in a modular solution to provide quick and secure shipment with ease of implementation

Optimized and modularized solution

Emerson's Product Loading Systems are the total solution to terminal loading. Emerson integrated metering systems are proven to meet the most stringent requirements. Integrated and fully tested metering systems increase measurement accuracy and reliability with the premiere Emerson Flow Solutions product line. Modular systems configured for your requirements allow for an optimized terminal layout, and increased vehicle and vessel throughput. The compact system size reduces engineering, fabrication and installation costs while enabling secure shipment in standard containers. Emerson provides expertise in engineering, project management, operation and system services to provide the safest and highest performance in the industry. Partnering with Emerson ensures a reliable, high quality, and safe loading operation.

Applications

- Gasoline, diesel, kerosene, jet A1, ship fuel, etc.
- Optional ethanol, biofuel blending and additives
- Liquefied petroleum gases (LPG), butane, propane, liquid ammonia, etc.
- Vapor return with measurement optional

Flow Meter

Micro Motion ELITE Coriolis Flow Meter CMF

- Proven ELITE performance on liquid mass flow or volume flow measurements
- ISO/IEC 17025 certified calibration facilities offer world-class uncertainty range

Batch Controller

Remote Automation Solutions DL8000 Preset Controller

Rugged electronic preset that provides precise custody transfer batches

Micro Motion Series 3000 Transmitter

Powerful and easy one-stage or two-stage batch control with ticket printing output

Liquid Control Valve

Digital Control Valves

Precise flow rate control and batching capabilities with smooth linear action for maximum flow and minimum pressure loss

Instrumentation

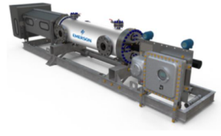
Rosemount Pressure and Temperature Transmitters

Accurate and reliable measurement of batching process and operating conditions

Safety

Emergency Shut Down (Optional) and Safety Interlocks

ESD Valve immediately stops flow when signaled due to overspill or from terminal alarm system



Proving (Optional)

Emerson Compact Prover

High accuracy, rapid operation and uninterrupted flow for proving a flow meter during operation

Strainer System (Optional)

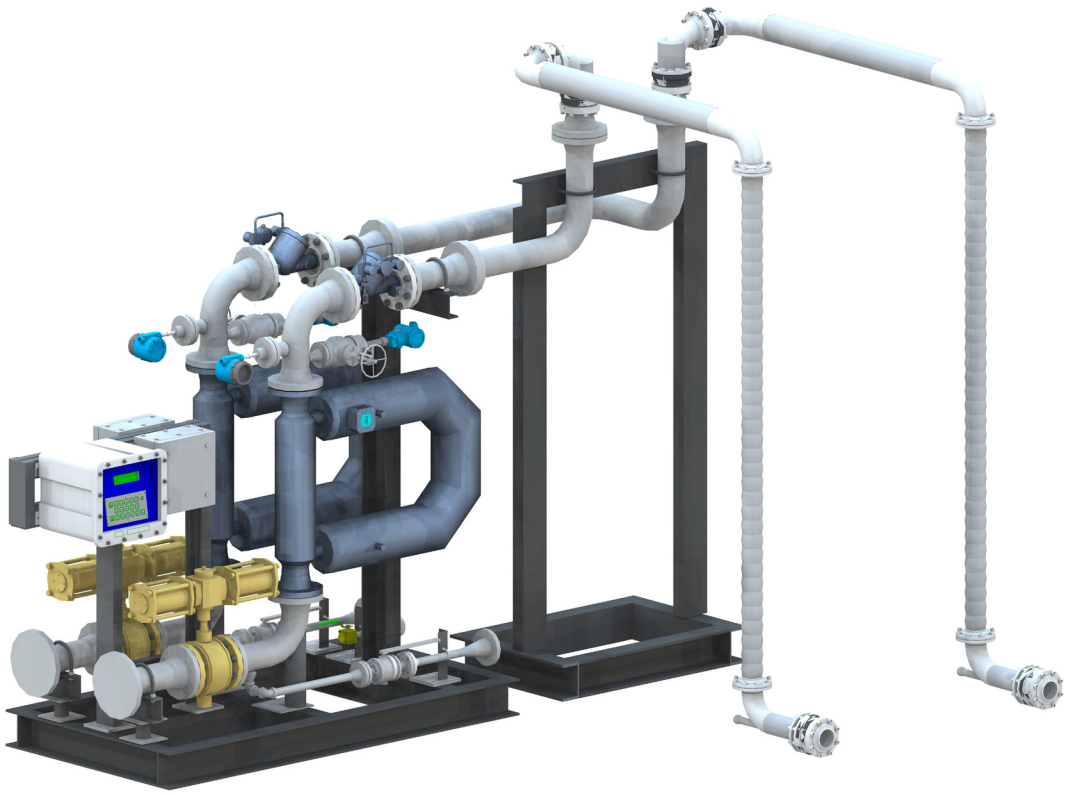
Strainer with Air Eliminator

Strainer system eliminates foreign particles and increases system component integrity

Emerson Product Loading System

FSS-PTMS-0216

Brochure
February 2022



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