



MSA Passive Shutdown System

[for Bulk Transport Vehicles]

The MSA Passive Shutdown System meets passive emergency shut-off control requirements for bulk transport vehicles transporting liquefied compressed gas.

The MSA System is engineered with the latest mechanical and electrical technologies and is well-suited for the harsh climates and rugged use experienced in the trucking industry.

Features

- Complies with DOT HM 225A requirements
- UL and DCE approved
- Detects leaks through gas detection
- Designed in rugged, stainless steel enclosures
- Meets NEC Class I, Division 1 installation requirements
- Automatic fail-safe mode shuts down both cable and air-operated valve systems during loss of power or brake engagement.

Benefits

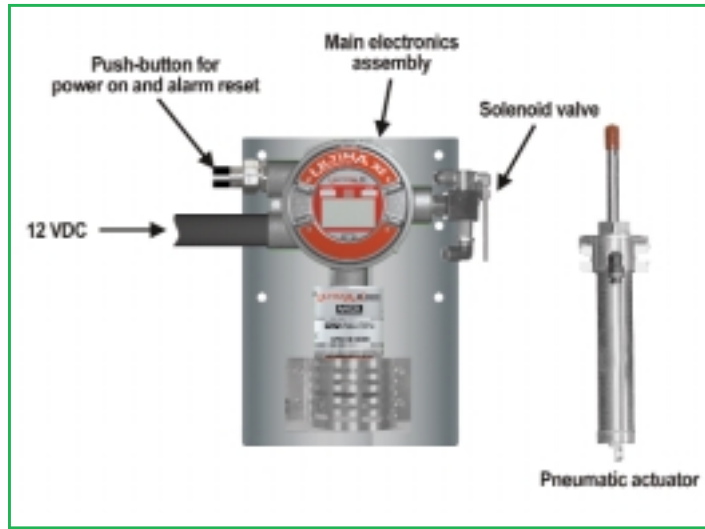
- Provides increased worker safety by monitoring the entire area for potential leak situations
- Detects propane, butane, anhydrous ammonia and dimethyl ether
- Shuts down discharge, fill and vapor lines
- Average installation time is less than 2 hours
- Provides text messaging during alarm and fault condition.



MSA brings **75 years of gas detection** experience to the trucking industry and offers a product **specifically designed** for the passive shutdown requirements for propane, butane, anhydrous ammonia and dimethyl ether bulk transfer.

The system **continually monitors** the offloading of product through catalytic combustible sensor technology. The sensor detects the presence of the bulk product and converts the gas into a % LEL (lower explosive limit) reading. Once the detection limit of 10% LEL is exceeded, the system will **immediately shut down** the primary discharge valve and close all discharge, fill and vapor lines.

The MSA Passive Shutdown System is **UL and DCE approved** and is designed in **rugged** stainless steel enclosures and requires 12 VDC power. The system detects complete hose separation, hose leaks and valve leaks and provides **added safety** through area monitoring capabilities. **Smart electronics** provide operating LEDs and a display that features text messaging.



Passive Shutdown System for cable-operated valve systems, internal sensor assembly

Fail-safe design features require the powering on of the system prior to opening the primary discharge valve. The system also powers off and closes the valve upon loss of power and brake engagement.

Installation is a **simple, non-intrusive** process that requires the mounting of two brackets, connection of airlines and the wiring of power. Once complete, the system is **ready to go**.

MSA has **world-class service centers** throughout North America to meet any technical support need.

Ordering Information

Part Number	Description
10045557	Passive Shutdown System for cable-operated valves, integral sensor assembly
10045558	Passive Shutdown System for air-operated valves, integral sensor assembly
10045559	Passive Shutdown System for cable-operated valves, remote sensor assembly
10045570	Passive Shutdown System for air-operated valves, remote sensor assembly
10045985	Calibration Kit
10045987	Bump Check Kit

Note: This Data Sheet contains only a general description of the product shown. While uses and performance capabilities are described, under no circumstances should the product be used except by qualified, trained personnel, and not until the instructions, labels or other literature accompanying the product have been carefully read and understood and the precautions therein set forth followed. Only they contain the complete and detailed information concerning this product.

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