



HALOGEN
VALVE SYSTEMS, INC.

Your Partner in Safety

Emergency Chlorine

Ton Container Valve Shutoff System

TERMINATOR™ CHLORINE VALVE ACTUATOR

Bulletin: 701



The Terminator valve actuator with Gemini controller is an economical emergency chlorine shutoff system designed for use on chlorine and sulfur dioxide ton containers (one tonne drums) commonly used at water and wastewater treatment plants. The system is DC electric powered with AC only used for keeping battery optimally charged at all times. In the event of a loss of AC power, the system continues to protect for more than 24 hours. If AC power remains off for an extended period of time, the system will auto-initiate emergency close while sufficient battery power remains.

The Terminator is compatible with standard valves meeting Chlorine Institute specifications and requires no tools or adapters for installation when a CGA820 connection is being used. Adapters are available to allow the Terminator to work alongside most tank mounted vacuum regulators. As a safety device, the Terminator is only powered in the closing direction. After process connections are made, leak tested, and the valve opened, the Terminator is then securely attached to the yoke or valve with a few simple turns of a hand knob.

Features

- Economical, low cost solution
- Protects personnel and community by quickly and automatically stopping a gas leak
- Easy-to-use clamp mount design for ton containers
- Battery powered system – continues to protect for more than 24 hours if AC power lost
- Fire code approved for many applications as scrubber alternative
- Helps comply with RMP gas leak mitigation requirement
- Compatible with most tank mounted vacuum regulator brands

When the Gemini controller receives an emergency close signal from a gas detector, emergency shutoff switch, or other input, the Terminator is activated and the container valve is rapidly closed. One or two Terminator actuators can be controlled by the Gemini, and systems can be interconnected to protect larger, manifolded banks of chlorine ton containers. The Gemini includes a normally open, low voltage, momentary contact relay output for remote indication of emergency close activation. An optional Relay Interface Module (RIM) adds three dry contact relay outputs rated for 5 A @ 250 V with N.O./N.C. and latching capability for additional remote monitoring capability.

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REV 3, 7/19



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Specifications

Enclosure:	XENOY™, NEMA 4X
Drive Shaft:	440C Stainless Steel
Drive Bushing:	XYLAN® Aluminum-Silicon Bronze
Cable:	15 ft (4.5m), 2 Wire
Closing Torque:	30-40 ft-lb
Charging Current @110/220 VAC:	0.9A MAX
Charging Current @12VDC (Solar):	0.34A MAX
Battery Type:	12VDC, 8.0 Amp-Hour, High Rate
Standby/Backup Time:	> 24 Hours
Standard Compatibility:	Chlorine Institute DWG's 110, 113
Yoke Compatibility:	Chlorine Institute DWG's 189, 131

Terminator actuators require the Gemini controller for a complete emergency valve shutoff system. Actuators cannot operate stand alone.



Model Information

Image	Model	Description
	TGS-1Y	Gemini Controller with: (1) Terminator Actuator, (1) Storage Bracket, (1) Emergency Shutoff Switch
	TGS-2Y	Gemini Controller with: (2) Terminator Actuators, (2) Storage Brackets, (1) Emergency Shutoff Switch

Options/Accessories

Part No.	Description
4500.05	Relay Interface Module (RIM)— (3) 5 A, 250 V Dry Contact Outputs. Alarm Conditions: Emergency Shutoff Activated, Low Voltage, System NOT Armed & Ready
4500.06-A	Manual Relay Reset Button (requires Relay Interface Module, P/N 4500.05)
5151.00	Open Style Yoke
6888.00	Yoke to Pigtail Adapter
2192.07-A	Clamp Extensions
2202.00	Auxiliary Valve Adapter

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