



**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 3 to 5 days. 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

## 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 up to 5 days 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

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.

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 may be controlled by the Gemini, and systems can be interconnected to protect larger, manifolded banks of chlorine ton containers. Each system includes a low voltage 24VDC relay output for remote indication of emergency close activation.

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Specifications

<b>Enclosure:</b>	XENOY™, NEMA 4X
<b>Drive Shaft:</b>	440C Stainless Steel
<b>Drive Bushing:</b>	XYLAN® Aluminum-Silicon Bronze
<b>Cable:</b>	15 ft (4.5m), 2 Wire
<b>Closing Torque:</b>	40 ft-lb
<b>Charging Current @110/220 VAC:</b>	0.9A MAX
<b>Charging Current @12VDC (Solar):</b>	0.34A MAX
<b>Battery Type:</b>	12VDC, 8.0 Amp-Hour, High Rate
<b>Standby/Backup Time:</b>	Up to 5 days
<b>Standard Compatibility:</b>	Chlorine Institute DWG's 110, 113
<b>Yoke Compatibility:</b>	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—5A, 250VAC Dry Contact
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
2196.00	Additional Actuator Storage Bracket