

EMERGENCY SHUTOFF DRIVE (ESD) FOR CYLINDERS & DRUMS



WALLACE & TIERNAN[®] GAS DOSING SYSTEM

Evoqua's Emergency Shut off Drive (ESD) from the Wallace & Tiernan[®] family of products ensures the highest level of safety for chlorine gas applications.

ENHANCED SAFETY & RELIABILITY

The ESD is a proven, fast-acting safety device that ensures the immediate closure of chlorine gas valves in the event of a leak or power failure. Featuring a new, optimized design, the ESD can provide additional operational safety and reliability for chlorine gas cylinders and drums as per closure torque requirements.

The device ensures maximum safety for operating personnel since the chlorine gas room does not have to be entered to close the gas containers. In the event of a power supply failure, safety is ensured by an integrated, 12-hour battery backup.

FAST CLOSING VALVES

Working in connection with a chlorine gas warning device, the ESD reliably closes chlorine gas valves within a designed objective of 3 seconds or less, reducing the total possible chlorine leakage time. The electric drive is attached directly to the main valve of a gas container and is easy to handle to allow for a quick container change. The system is easy to install and can be retrofitted to existing installations at any time.

The central control system features a plain text display screen and an emergency stop button for the immediate closure of the main valves. Connection options for a gas warning device and an external emergency stop button are available, in addition to alarm outputs for further transmission. The display screen provides the status of all valves.

SPECIFICATIONS

- Safe closing of the main valves of the gas containers within a few seconds
- The chlorine gas room does not have to be entered to close the gas containers
- Meets the requirements of UL508A standards and Chlorine Institute guidelines for emergency closure systems
- No additional sealing points in the chlorine gas lines
- Easy installation or retrofitting in existing systems with or without vacuum regulators
- Fast container changes due to simple handling
- Intelligent drive with idle detection
- 12-hour standard battery backup, extendable to 24-hours
- Data communication to building control rooms through Modbus[®] TCP and potential free contacts

TECHNICAL DATA

DRIVE

Intelligent 24V DC motor with integrated torque limitation

Degree of Protection: NEMA 4X

CONTROL CABINET

Variant Available: ESD -6 For up to 6 drives

Dimensions: 24W x 30H x 10D in

Power Supply: 120VAC/240VAC, Single Phase, 60Hz

Degree of Protection: UL Type 1 - NEMA 4X

Battery Life: up to 2 years



CONTROL FEATURES

- Multicolor display with touch screen
- 1 potential-free input for gas warning system
- 1 potential-free input for external emergency stop button
- 4 Relay Output for Alarm - Hard Wired
 - a) Mains A/C failure
 - b) System Error
 - c) Battery Low
 - d) Emergency Close
- Data exchange via Modbus® TCP

Language: English



Actuator Connection Cable

Cable length options: 5, 10 or 20 mtr (6, 32, or 65 ft)



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