

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, optimised 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, 24-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 DIN 19606: 2020-01
- No additional sealing points in the chlorine gas lines
- Easy installation or retrofitting in existing systems
- Fast container changes due to simple handling
- Intelligent drive with idle detection
- 24-hour battery backup
- 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: IP65

CONTROL CABINET

Variant available: ESD -6 For up to 6 drives

Dimensions: 600 x 600 x 200 mm

Power Supply: 1/N/PE AC 120-230V
50/60Hz

Degree of Protection: IP65

Battery Life: up to 2 years



CONTROL FEATURES

Multicolour 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 and optional Profibus™ DP

Languages: English / German



Actuator Connection Cable

Cable length options: 5,10 or 20 mtr



12, Dana Estate, Transfesa Rd, Paddock Wood, Kent TN12 6UT

+44 (0) 300 124 0500 evoqua.com

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