



Electrical Shutdown System

CHEMIDOSE LIMITED



Model M3800

Unit 1
Centre 2000
St. Michael's Road
Sittingbourne
Kent
ME10 3DZ
Tel: 01795 425169
www.chemidose.co.uk



EMERGENCY SHUTDOWN SYSTEM

Series **M 3800 ESS**
(ELECTRICALLY POWERED)

- ⇒ *Electrically Powered*
- ⇒ *Battery backed (up to 8 hours)*
- ⇒ *Designed for both ton containers and gas cylinders*
- ⇒ *Attached to valve body*
- ⇒ *Simple “clamp on system” allows actuator attachment and detachment from the valve body in seconds*
- ⇒ *No tools necessary*
- ⇒ *Adaptable to fit any valve*
- ⇒ *Adjustable torque to fit any valve and specific regulations and requirements*
- ⇒ *Manufactured from quality materials*
- ⇒ *Valve closure in less than 4 seconds*

GENERAL

Controlmatic Limited “Emergency Shutdown System - M 3800 ESS” is used for protection of personnel and property. Controlmatic Ltd “M 3800 ESS” works in conjunction with Chlorine gas detection equipment providing automatic closure of Chlorine cylinder or container valves in case of Chlorine gas leak.

The Chlorine gas detector provides information about the leak and gives a signal to the “Emergency Shutdown System” control panel. The control panel triggers the electrical actuators, mounted directly on the valve of the cylinder or container, which in turn closes the valve in less than Four seconds. The system can be manually operated via an emergency button mounted outside the gas room. When all the valves are closed, the operator can safely enter the gas room.

When the source of the gas leak is identified and fixed, the operator can manually open all the necessary valves and set the “control panel in “ready mode”.

The system is very simple to install. Controlmatic Ltd “M 3800 ESS” can be used for multiple units (cylinder or container valves). The system uses an electrical power source and is battery backed-up in case of power failure.

INSTALLATION:

Each electrical actuator is individually fixed onto cylinder or container valve and connected to the control panel. Each actuator is supplied with 10m of special interconnection cable. Maximum distance between control panel and actuator is 10m (length of cable).

One control panel cabinet controls up to 6 electrical actuators.



Actuator assembly

ORDER CODE

Electrical actuator M 3800 ESS - EA/X

Valve type

OPTIONS:

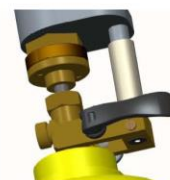
- Valve type: 1 = Handle type valve
- 2 = Square stem valve

NOTE:

Handle and square stem valve dimensions have to be specified with order!



1 - Handle type valves



2 - Square stem valves

Control panel cabinet M 3800 ESS - CP

NOTE:

One control panel cabinet controls max. 6 electrical actuators or a larger unit for up to 10 actuators



TECHNICAL DATA

Supply voltage : 230V, 50/60Hz
 Control panel cabinet Display : LCD 4 lines,12 characters
 Relay output : 230 V 3A load; 8A ohm load
 Battery back up: up to 8 hours

DIMENSIONS

Dimensions table: A — closed 106 mm max, / open 173 mm max.
 B — min. 290 mm / max. 318 mm
 C — 142 mm
 D — 90 mm
 E — 107 mm

