

Emergency Valve Shutdown for Drum Motor Systems

ChlorGuard[®]

IT'S YOUR SAFEGUARD

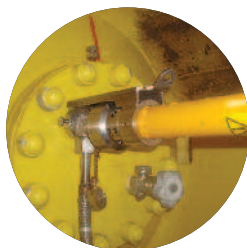
Global Chlorine safety solutions

The cost of a toxic leak is negligible
...the damage could be irreparable

As legislative pressures increase on toxic and other gas users, ChlorGuard offers a very flexible safeguard to prevent leaks and increase site safety. A gas leak triggers immediate secure shutdown, protecting personnel, equipment and the environment from toxic gases and ensures compliance with Health & Safety standards

- Remote, rapid shutdown
- Designed for drum and cylinder systems
- Safe operation by compressed air
- Low running and maintenance costs
- Adaptable and compatible system
- Advanced safety and diagnostic features
- Patented design
- ISO 9001 - Module H approved
- World class customer support

Protecting lives... safeguarding business



ChlorGuard Control Panel



Technical Data

Dimensions	H760mm x W415mm x D315mm
Construction	Zintec steel welded construction. Separate pneumatic & electrical compartment. Hinged lockable outer cover c/w 3 mm perspex panel
Protection	IP44
Finish	2 pack epoxy – RAL 1021
Power Supply	110/230Vac - 50/60Hz
Control ~ Pneumatic	Manual, Automatic, Isolate via status control levers door mounted
Control ~ Electrical	Signal from gas detectors. Manual from remote closure button. Key test switch
Visual Signal	Alarm, mains power, stand by low battery, DC fuse, Pressure
Sinal Telemetry (Volt free contact)	All NC or NO contacts available - Mains power failure, low pressure, low battery, alarm & levers not in open position
Solenoid Valves	12Vdc for NC and 24Vdc for NO
Option	12V DC Power take off for strobe light to indicate: a) Lever not in auto b) Reset button not pressed to cancel alarm
Battery	12Vdc or 24Vdc – 7Ah

CE Conformity

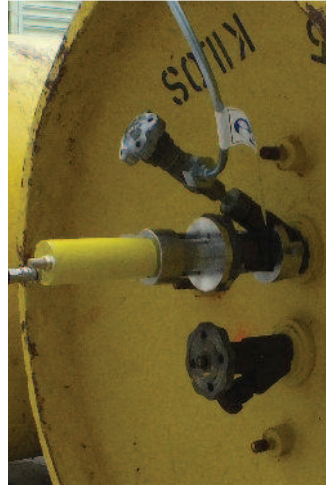
- Machinery Directive 98/37/EC
- Low Voltage Directive 73/23/EEC
- EMC Directive 89/336/EEC

The bespoke ChlorGuard control panel provides a robust philosophy for valve shutdown while also offering feedback signals so that the end user can monitor the status of the system. It has advanced safety and diagnostic features including telemetry feedback that informs the end user if there is an issue with the system such as alarm initiated; low pressure; mains power failure; low battery; or bank lever not in automatic mode. Process functionality has also been built in to assist the end user with activities such as closing the gas valves of an empty vessel before replacing.

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ChlorGuard Drum Motor Airdrive Assembly DM



Technical Data

Description	Airmotors (3 stage reduction gear drive) and exhaust silencer
Dimensions	L231mm x D41.5mm
Body Construction	Aluminium
Weight	1.5 kg
Finish	Powder Coated - RAL 1021
Output Shaft	14mm diameter shaft & key
Drive	Adaptor to match cylinder key
Output Speed	160 RPM at 6.2 bar free running
Exhaust Silencer	Silences air being expelled from the Airmotor and prevents misting or lubricating oil in the air
Mounting Bracket	Designed to suit particular cylinder valve

CE Conformity

- Machinery Directive 98/37/EC
- Low Voltage Directive 73/23/EEC
- EMC Directive 89/336/EEC
- Pressure Equipment Directive 97/23/EC

Applications include:

- Water Treatment Plants
- Waste Water Treatment Plants
- Hazardous Gas Use Facilities

This compact drive solutions offers a niche solution for both cylinder and drum closure by providing a closing torque of up to 68Nm (50Ft/lbs) for the high torque requirements. These drive units are very light and easy for the end user to manoeuvre on or off the valve for ease of use.

“ChlorGuard is a flexible and cost-effective control measure that provides peace of mind for the end user in a 24/7 business. It also provides a very necessary level of control between the operational needs of the water provider and consumer needs”

Anthony Waite, MANE Consultancy Consultant to South West Water

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Compressor & Air Receiver Assembly



Technical Data

Compressor Type	Oil Free Piston Compressor
Capacity	130 – 190 L/min
Motor Size	1.1 - 1.5 kW
Motor Protection	IP54
Power Supply	110/230Vac - 50/60Hz
Receiver Capacity	127, 230 and 270 litres
Receiver Size	D508mm x H1505mm D508mm x H1825mm D508mm x H1950mm
Fitted with	Gauge Safety valve Drain Valve (manual) Pressure switch starter
Sound Level	71dB(A)

Manufacturing Specification

EC Conformity Procedure	PED (97/23/EC) Modules B & D
EC Type Examination Certificate No.	CEN-006062/B1-02
Technical Standard Used	BS.EN286-1: 1998 Class 2
Design Pressure	11.0 Barg
Design Temperature	-10 to +85°C
Hydraulic Test Pressure	16.5 Barg
Vessel Design Life	20 Years - based on a fatigue criteria of the following pressure cycles: 1040 Cycles of Full Pressure Range (i.e. start up/shutdown cycles + 1752000 Cycles of range 2.0 Barg)
Finish	Primed, blue gloss RAL 5015

The ChlorGuard system is pneumatically operated and as such requires a bespoke compressor and receiver assembly to drive the system upon activation. For redundancy, the receivers are sized with enough capacity for 2 enclosures should the compressor fail. The compressors specified are very low maintenance, being oil free, and will provide many years of reliable operation.

“As legislative pressures increase on toxic and other gas users, ChlorGuard offers a very flexible safeguard to prevent leaks and increase site safety”

Chris Dolman, Product Manager
Gases, BOC

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