

# FINE CONTROLS (UK) LTD



Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product range representing leading technologies & brands:

**Flow:** Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

**Temperature:** Temperature Probes & Thermowells, Temperature transmitters, Temperature Regulators & Temperature Displays

**Level:** Level Transmitters & Switches

**Pressure:** Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

**Precision Pneumatics:** Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

**Valves:** Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

**Services:** Repair, Calibration, Panel Build, System Design & Commissioning

A rotork® Brand  
**FAIRCHILD**



**bürkert**



**SIEMENS**



**alcon**  
SOLENOID VALVES

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**MIDLAND-ACS**  
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**Bourdon**  
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**MIDLAND**



## Building Services Brochure



**LANDON  
KINGSWAY**

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**alcon**  
SOLENOID VALVES

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**Redefining Flow Control**



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Rotork is the global market leader in valve automation and flow control. Our products and services are helping organisations around the world to improve efficiency, assure safety and protect the environment.

We strive always for technical excellence, innovation and the highest quality standards in everything we do. As a result, our people and products remain at the forefront of flow control technology.

Uncompromising reliability is a feature of our entire product range, from our flagship electric actuator range through to our pneumatic, hydraulic and electro-hydraulic actuators, as well as instruments, gearboxes and valve accessories.

Rotork is committed to providing first class support to each client throughout the whole life of their plant, from initial site surveys to installation, maintenance, audits and repair. From our network of national and international offices, our engineers work around the clock to maintain our position of trust.

**Rotork. Redefining flow control.**

# Introduction to Building Services

## LONDON KINGSWAY

A **rotork** Midland Brand

Landon Kingsway has maintained an outstanding reputation in fire fighting and gas detection equipment markets around the globe for over 60 years. We manufacture quality fire protection equipment and gas detection equipment for building services. As a UK based company we are fully compliant with all UK and European standards.

We pride ourselves on providing innovative products for fire fighting and gas detection equipment for all industrial and commercial buildings, either in individual components or as a full operating system.

Whichever product you require, you can be sure it has been designed and certified to comply with British Standard BS EN ISO9000, and the highest and most stringent European and world quality standards.



## alcon SOLENOID VALVES

A **rotork** Midland Brand

Alcon is a leading manufacturer of combustion, industrial, medical and laboratory gas control solenoid valves with over 50 years of design experience.

We are specialists at providing comprehensive solutions, whether a stand-alone valve or a bespoke installation. Our outstanding reputation as a global supplier of solenoid valves to a wide variety of customers and industries allows us to always meet or exceed customer requirements. Our solenoid valves can also be manufactured with increased safety electrical coils and enclosures covered by ATEX, UL or CSA approvals, to meet application demands.

With direct sales offices in the UK, Canada and the USA, manufacturing centres throughout the world, and having access to the global Rotork sales network, we can provide solenoid valves to function in the most arduous of conditions and extreme temperatures, anywhere in the world.

Our product line covers a full range of valves for general and special-purpose including:

- Air
- Water
- Potable Water
- Steam
- Cryogenics
- Gases
- Oil & Fuel
- Actuation
- Hazardous Area
- Aggressive Media



## Wet & Dry Riser Equipment

Wet & dry risers are intended for the use of the fire service to provide a readily available means of delivering considerable quantities of water to extinguish or to prevent the spread of fire.

Any building more than 18 metres high - measured from the fire brigade access level to the top floor - or with floors more than 10 metres below ground must be provided with 'fire fighting shafts' and a fire fighting rising main. If the building has a floor level higher than 18 metres, but less than 50 metres, or has floors more than 10 metres below ground, the fire main can be either a dry or a wet riser. When a building is more than 50 metres high the rising main has to be a wet riser. The dry riser system enables the fire service to pump water onto the upper floors of a building. Wet risers are systems which are kept permanently charged with water via pumps and tanks.

Landon Kingsway provide dry riser inlet breeching valves - manufactured in accordance with BS5041 - in 2 or 4 way, allowing easy connection via BS336 instantaneous coupling by the fire brigade to the water supply. These valves are normally housed in Landon Kingsway inlet cabinets, recessed into the external wall of the building. The top of the riser should be fitted with a Landon Kingsway air release valve which releases all air from the riser, as water is pumped in, but closes automatically under pressure of water.



Landing valves for dry and wet riser systems, housed in outlet cabinets and manufactured by Landon Kingsway in accordance with BS5041, provide an outlet connection via BS336 coupling to each floor except ground.

## Gas Detection & Pressure Proving

Landon Kingsway gas detection, ventilation and interlock panels are manufactured for commercial kitchen applications - allowing you to fully meet the requirements of BS6173:2009.

Landon Kingsway manufacture gas pressure proving systems for use when flame failure devices are not fitted to catering equipment. These ensure a safe working environment at all times.

A full range of ventilation and gas interlock panels is also available, which can be used if gas pressure proving is not required.

### Gas Detection

The Landon Kingsway gas detection system, the LKGSP4, can be used in many applications such as factories, car parks, shopping centers and boiler houses. The LKGSP4 provides automatic shutdown of gas valves and appliances and can be used with up to four gas detectors.

Sensors are available for the detection of natural gas, carbon monoxide and carbon dioxide. Wiring back to the control panel is simple using four-core low voltage cable.



### Gas Pressure Proving System

The Landon Kingsway gas pressure proving system, the LKGMS, provides personal and environmental safety for gas installations in kitchens, schools, hotels, laboratories, workshops and industrial sites.

The LKGMS is a fully automatic pressure proving system that will regularly check the integrity of any gas installation. Used in conjunction with an Alcon gas safety shut off valve approved to BS EN161, the LKGMS is very easy to install and commission.

## Ventilation & Interlock Systems

### Gas Ventilation

The Alcon GSS1 ventilation interlock system is designed specifically for use in commercial kitchens to meet BS6173: 2001, which is now a much recognised standard in the catering industry. This panel is to be used when the kitchen appliances do have flame failure devices, therefore gas proving is not a requirement.

The system acts as an interlock between the ventilation system and the gas solenoid valve. It ensures the Alcon EN161 approved gas solenoid valve cannot be opened until the ventilation system is proven to be operating. The fans are monitored with air pressure differential switches.



### Gas Interlock System

The Alcon GSS2 gas interlock system acts as an interlock between the ventilation system and the gas solenoid valve. The system has a built in power monitor which is a method used for interlocking a kitchens' gas supply with the ventilation system.

As an alternative to pressure differential switches the GSS2 is designed to monitor the electrical current going to a ventilation fan. When the fan is turned "on" the GSS2 monitors the electrical current going to the fan motor, when there is sufficient current going to the fan motor our panel receives a signal to indicate the fans are operating.

## Water Isolation Solenoid Valves

### ACDe Series

The Alcon ACDe series solenoid valves provide automatic, 2/2 on/off control for applications such as air, inert gas, water, and other media compatible with the sealing material options. Approved by the Water Regulations Advisory Scheme (WRAS), the primary feature of these servo-operated valves is their ability to operate with zero pressure differential.

The result is a product that is compact yet market leading in flow and pressure efficiency, robust and aesthetically pleasing. They also incorporate long established solenoid technology to ensure world class reliability. The valves are available in 230, 110 & 24 Volt / 50 / 60 Hz AC and 24 & 12 Volt DC variants.

All valves are supplied with a quick fitting standard DIN 43650 connector.





## Gas Solenoid Valves

### Gas Valves - GB Series

The Alcon GB series 1/4" - 2" solenoid valves are designed as EN161 approved safety shut-off valves for domestic appliances, commercial uses such as catering equipment (LK gas pressure proving, detection, interlock and ventilation systems) and industrial uses including process heating.

The valves are suitable for the 1st, 2nd and 3rd families of combustible gas. Their primary function is the on-off control of low pressure combustible gases and air. All valves are available with screwed connections to BS21.

Pressure test point connections up and down stream of the valves are standard. Upon being energised the valves will open instantaneously and upon de-energising they will close in less than one second. Loss of power for any reason will cause the valves to close.

Manual reset switches for remote mounting are available as accessories and when fitted require manual intervention to enable the valve to reopen. Emergency thermal cut-out switches are also available.



## Gas Solenoid Valves

### Gas Valves - HWA Series

The Alcon HWA series is an electro-hydraulically operated EN161 approved range of gas safety shut-off valves with high flow rates. Their primary function is the on-off control of low pressure combustible gases and air. They can be used for both control and safety isolation purposes.

The valves are suitable for the three families of combustible gasses: 1st, town gas; 2nd, natural gas and 3rd, liquefied petroleum gases. The valves are normally closed, i.e. energise to open, and are operated from mains voltage 230 or 110 Volts. Electro-hydraulic operation ensures a smooth controlled opening at low speed whilst closure time is less than one second. Loss of power for any reason will cause the valves to close.

The HWA series are available in connection sizes from 1 1/2" (DN40) to 3" (DN80) screwed, and from 2 1/2" (DN65) to 6" (DN250) flanged, covering an extremely wide range of commercial and industrial applications.

Manual reset switches for remote mounting are available as accessories and when fitted require manual intervention to enable the valve to reopen. Emergency thermal cut-out switches are also available. The HWA series cut electricity bills and carbon emissions compared to conventional solenoid gas valves of this size due to electro-hydraulic technology.



## Certifications

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The Canadian Standards Association is a not-for-profit membership-based association serving business, industry, government and consumers in Canada and globally. As a solutions-oriented organisation, they develop standards that address needs, such as enhancing public safety and health, facilitating trade.

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Underwriters Laboratories Inc. does not “approve” products, it evaluates products, components, materials and systems for compliance to specific requirements, and permits acceptable products to carry a UL certification mark, as long as they remain compliant with the standards.

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The IECEx is the IEC scheme for the certification to standards for electrical equipment for explosive atmospheres. The IECEx scheme comprises two global certification programs -

1. The IECEx Certified Equipment Program - covering product that meets the requirements of International Standards, e.g. IEC Standards
  2. The IECEx Certified Service Facilities Program - covers the assessment and the on-site audit of organizations that provide a repair and overhaul service to the Ex industry.
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Declaration by the manufacturer that product meets the requirements of the applicable European Directive(s).

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Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres. See ATEX directive for additional information.

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Water fittings or appliances with WRAS Approved Product status have been assessed and approved by representatives of the UK Water Suppliers themselves – the same authorities which have the legal duty to enforce the regulations and make day-to-day decisions about the acceptability of fittings.

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Bureau Veritas is a professional services company whose aim is to provide its clients with all the necessary services required to achieve, maintain and demonstrate compliance with their Quality, Health, Safety, Environment and Social Accountability (SHEQ/SA) obligations. Core part of Bureau Veritas is the Oil & Gas. They provide Inspection and Verification Services in accordance with the Offshore Installations (Safety Case) Regulations, which has a legal requirement for the Duty Holder (Shell, BP etc) to appoint an Independent Verification Body (IVB).

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# rotork®

Redefining Flow Control



[www.rotork.com](http://www.rotork.com)

A full listing of our worldwide sales and service network is available on our website.

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