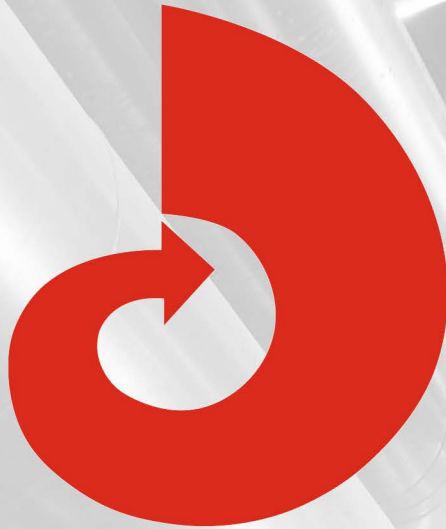


# FINE CONTROLS (UK) LTD



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

A **rotork** Brand



**MIDLAND-ACS**  
A **rotork** Brand



**Honeywell**



**Bourdon**  
Baumer Group



**SOLDO**  
CONTROLS

A **rotork** Brand



Fine Controls (UK) LTD, Bassendale Road, Croft Business Park,  
Bromborough, Wirral, CH62 3QL UK  
Tel: 0151 343 9966  
Email: [sales@finecontrols.com](mailto:sales@finecontrols.com)

## SOLENOID ENCLOSURES

### E5 Type Enclosure Protection Class IP65

External Material: Glass reinforced nylon  
Electrical Connection: DIN Plug to ISO 4400

Winding insulation Class H

Enclosure conforms to IP65 when correct plug gasket is fitted.

Standard enclosure for most popular Alcon valves



### S4 Type Enclosure Protection Class IP50

External Material: Pressed steel Powder Coated  
Electrical Entry: Conduit boss 20mm or ½" NPT  
Electrical Connection: Screwed terminals or 0.5mm flying leads, or DIN connector for cryogenic applications

Winding insulation Class H

Optional enclosure for the following types:  
21, 22, ACD, ACP/ACPH, ACDN, ACPN3-6, GB, 31.



### S50 Type Enclosure Protection Class IP65

Material: Pressed steel  
Electrical Connection: DIN Plug to ISO 4400

Winding insulation Class H

This enclosure conforms to IP65 when correct plug seal gasket is fitted

Enclosure for the following types:  
ACHL 12-17, FACHL12-17, GB8, 9, 10



### S7 Type Enclosure Protection Class IP65

Material: Nylon  
Electrical Connection: DIN Plug to ISO 4400  
Standard Enclosure for 67 5/2, Universal Namur Valves

Winding insulation Class F

This enclosure conforms to IP65 when correct plug seal gasket is fitted





## SOLENOID ENCLOSURES

### A Type Enclosure Protection Class IP65

External Material: Reinforced Epoxy Resin  
Electrical Connection: DIN Plug to ISO 4400

Winding insulation Class F

Enclosure conforms to IP65 when correct plug gasket is fitted

Standard enclosure for ACC series



### B Type Enclosure Protection Class IP65

External Material: Reinforced Epoxy Resin  
Electrical Connection: DIN Plug to ISO 4400

Winding insulation Class F

Enclosure conforms to IP65 when correct plug gasket is fitted

Standard enclosure for ACC series



### C Type Enclosure Protection Class IP65

External Material: Reinforced Epoxy Resin  
Electrical Connection: DIN Plug to ISO 4400

Winding insulation Class F

Enclosure conforms to IP65 when correct plug gasket is fitted

Standard enclosure for 61 / ACR series



### D Type Enclosure Protection Class IP65

External Material: Reinforced Epoxy Resin  
Electrical Connection: DIN Plug to ISO 4400

Winding insulation Class F

Enclosure conforms to IP65 when correct plug gasket is fitted

Standard enclosure for ACE series



## SOLENOID ENCLOSURES

Explosion-proof / Weatherproof.

Enclosure S4 Type Exd ATEX or IECEx / CSA / uCSAs approved.

Intended for use in potentially explosive atmospheres Directive 94/9/EC.

Compliance with essential health and safety requirements EN60529 (IP67), EN50018 and EN50014

### Features

- Special purpose solenoid valves are used for controlling gases or liquids where a potentially explosive gas/air mixture is present in the atmosphere for long periods or likely to occur in normal operation
- Alcon flameproof enclosures are suitable for hazardous areas Zone 1 and Zone 2, for the control of Group IIA, IIB, IIC gases

### Applications

- Valves configured for Hazardous Areas
- User to consult all applicable codes, such as N.E.C., EU directive 99/92/EC, for definitions, performance and safety requirements associated with Hazardous Area Classification, Apparatus Group, Zones, Division and Temperature Classification
- Applicable to all catalogue valves except HNC, HNO, HWA, JNC, JNO and HP.

Protection Class: II 2 G Exd IIC T6 for ambient temperatures -50°C to +40°C

Optional: II 2 G Exd IIC T4 for ambient temperatures -50°C to +70°C

### Weatherproof to IP67 Certificate No:

Sira 03ATEX1319 (ATEX)

IECEx CSA070002 (IECEx)

1676463 (CSA uCSAs)

### Technical Specification

Power Consumption: Holding –19VA, 12V to 230V 50/60Hz. 14.5W 12V to 212 V DC

Material: Powder coated Aluminium or 316 St. St enclosure with St. St nameplate

Electrical Entry: M20 x 1.5 or ½" NPT Conduit Entry

Applicable to the following types: 21, 22, ACD, ACP, ACD, 31, GB, FACHL



**ITT**

12q

*Engineered for life*



## SOLENOID ENCLOSURES

Explosion-proof / Weatherproof

Enclosure S4 Type Exd ATEX or IECEx approved

Intended for use in potentially explosive atmospheres Directive 94/9/EC

Compliance with essential health and safety requirements EN60079-0 and EN60079-18

### Features

- Special purpose solenoid valves are used for controlling gases or liquids where a potentially explosive gas/air mixture is present in the atmosphere for long periods or likely to occur in normal operation
- Alcon flameproof enclosures are suitable for hazardous areas Zone 1 and Zone 2, for the control of Group II gases

### Applications

- Valves configured for Hazardous Areas
- User to consult all applicable codes, such as N.E.C., EU directive 99/92/EC, for definitions, performance and safety requirements associated with Hazardous Area Classification, Apparatus Group, Zones, Division and Temperature Classification
- Applicable to all catalogue valves except HNC, HNO, HWA, JNC, JNO and HP.

Protection Class: II 2 G Exm II T5 for ambient temperatures -20°C to +40°C

Weatherproof to IP65 Certificate No:

Baseefa06ATEX0302X (ATEX)

IECEx BAS06.0080X (IECEx)

### Technical Specification

Power Consumption: Holding –16VA, 12V to 230V 50/60Hz. 10W, 12, 24 V DC  
 Material: Powder coated metal enclosure with stainless steel nameplate  
 Electrical Entry: 2 metre length of approved 3 Core cable with M16 conduit male  
 Winding insulation class.  
 Applicable to the following types: 21, 22, ACD, ACP, ACD, 31, GB, FACHL (24VDC)



## SOLENOID ENCLOSURES

Intrinsically Safe Enclosures (ATEX approved)

Complies with EN 50 014 : EN 50 020 A1 and A2

Protection Class: EExia IIC T6, ATEX approved for ambient temperatures -40°C to + 50°C  
Maximum valve media temperature of 70°C

Weatherproof to IP65 Certificate No:  
PTB 02 ATEX 2154

### Technical Specification

Winding insulation Class F

Rated Voltage: 24V DC with typical 300 ohm zener barrier

Max Power Consumption: EExia 1.6 watts DC EExia

Material: Thermoset resin

Electrical Entry: PG9 via Din Plug Connector Din 43650-A

Applicable to the following types: 67 (5/2), UNIVERSAL NAMUR



**ITT**

12s

*Engineered for life*