

TAKING CONTROL THROUGH
CUSTOMISED SOLUTIONS

ALPHA CONTROLS [®]

ALPHA CONTROLS LTD



qualitycounts

www.alphacontrols.co.uk



ALPHA CONTROLS | TAKING CONTROL

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Taking Control

Through Customised Solutions

Alpha Controls Ltd is committed to excellent customer service and has established partnerships with many major companies throughout the UK. We have 2 sites in the UK – Wigan in Lancashire and Slough. We are a highly dedicated and experienced team of technicians ensure an excellent customer service across a wide range of industries and applications. It's a service based on sound, objective advice from one of the leading independent companies in this field – Alpha Controls.

Automation

Offering one of the largest ranges of solenoid valves from one single source in the UK. Sizes from M5 to 8 in a variety of materials such as brass, stainless steel, PTFE and others. Applications as varied as domestic appliances, special purpose machines, medical and scientific instrumentation as well as general purpose engineering. In addition to solenoid valves Alpha Controls Ltd can offer a whole range of pneumatic controls, piloted valves, cylinders, grippers, fittings, air line filters from 1/2 to DN300 plus FRL's. Alpha Controls Ltd are also able to supply customised assemblies and complete control cabinets to meet customers specific requirements.

Process Control

Alpha Controls Ltd's process control product range offers 90° pneumatic rack & pinion actuators from 10 to 21,430NM. Both Rack and Pinion and Scotch Yoke designs are available. Body materials in epoxy coated aluminium, stainless steel, steel and polyimide. Options include 180° rotation and high temperature actuators for applications up to 265°C. A full range of accessories are also available including: NAMUR solenoid valves, proportional control positioners, de-clutch gear boxes, switch boxes, electric actuators etc.

Alpha Controls Ltd can also supply their actuators mounted on a wide range of ball and butterfly valve to suit the customers' requirements. Also in the range are air piloted angle seat steam valves, manual ball and butterfly valves etc.

Scientific Applications

Within the Alpha Controls Ltd product range are many items specifically designed for medical or scientific applications. Many of these are manufactured so that all wetted parts are in PTFE, such as solenoid valves, regulators, check valves, fittings, solenoid metering pumps and level switches etc. Other materials such as stainless steel, delrin, PVC etc. are also available. Whichever of the above areas are of interest, Alpha Controls Ltd can offer experienced external and internal technical sales staff who can assist you in finalising your requirements and hopefully from this one source, Alpha Controls Ltd.

SS316 Pneumatic Actuators A-SERIES

Our A Series Pneumatic Actuators are a stainless steel actuator which incorporates latest mechanical technology and our patented technology. Through designing, developing, testing and engineering applications, we have obtained a high-grade product with the characteristics of reliability, high performance, long cycle life, large adjustment, highest levels of corrosion protection.

Our extensive portfolio of In-house Valve and Actuator packages and ALV series solenoid valves together with a full range of Switchboxes and process products will offer you a complete solution to your applications.



**NEW
FOR 2018**



AA-SERIES

Stainless Steel Actuators

ALPHA CONTROLS | AA-SERIES

ALPHA CONTROLS LTD-ACHEM AA Series pneumatic actuators are 100% stainless steel actuators with the strong point of the fourth generation rack & pinion pneumatic actuators. Based on latest CNC machining centers & mechanical manufacturing technology, and nearly 20 years know-how of the rack & pinion technology, this actuators we manufactured is a high grade product with the characteristics of reliability, high performance, long cycle life and already proved to be used in most corrosive chemicals as well as very harsh industrial atmospheres.

The new AA Stainless Steel Actuators have a wide scope of output torque. We have 10 different size specification actuators to choose from: output torque range from 15 Nm to 3815 Nm at 5 bar.

This includes the very new AA-300 with a 3815Nm torque one of the biggest world-wide right now. Excellent corrosion resistance is as all main parts of this series of actuators are Stainless Steel

Smooth operations and long life expectancy due to high level manufacturing technology in the workshop allows the series of actuators to cycle more than 1 million times free from failures together with smooth actuation due to exceptionally low friction generated during rotational operations.

Flexible adjustment in travel ends. Two independent external travel stop bolts allows + or - 5 degree adjustment at 0 or 90 deg of the quarter turn

Namur and ISO5211 mount allowing you to mount directly to quarter turn valves



IP67

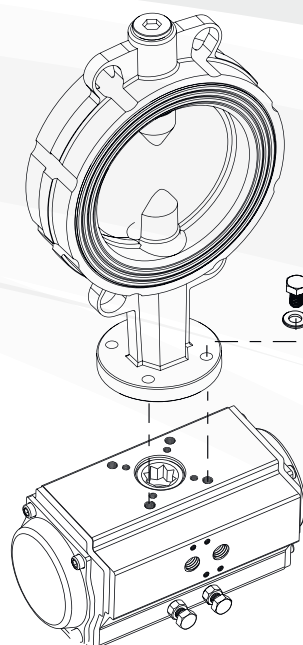
C-SERIES

Pneumatic Actuators

ALPHA CONTROLS | C-SERIES



www.alphacontrols.co.uk



ALPHA CONTROLS | C-SERIES

Our newly-designed C Series Pneumatic Actuator is aluminium rack & pinion actuators in double acting and spring return based on our innovative and patented technology. This kind of actuator features a top mount multifunction indicator and open-close stop adjustment as standard. In addition, state-of-the-art engineering has allowed us to reduce the size of the actuator without losing any torque. The features and characteristics of the actuator have kept pace with 4th generation pneumatic actuator in the world.

Our extensive portfolio of In- house Valve and Actuator packages and ALV series solenoid valves together with a full range of Switchboxes and process products will offer you a complete solution to your applications.



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PRISMA ACTUATORS



The brand name of Prisma Actuators has become well-known all around the world and is now a point of reference in this industry because of the robustness and reliability of its products.

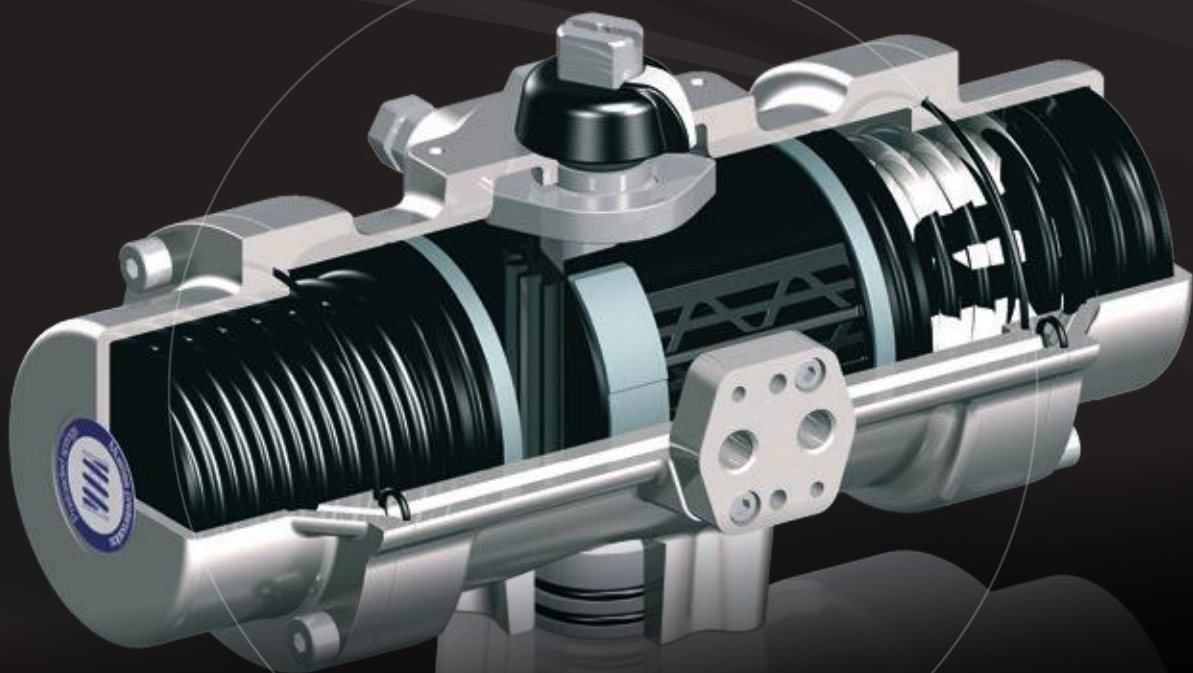
This success relies on continuously improving the quality and enhancing the development of our products and also to tailoring our service to meet the individual requirements of every one of our customers.

Since it was founded in 1980, Prisma has grown remarkably. In recent times our mechanical know-how as well as our extensive technical knowledge has evolved to offer complete solutions in the automation of valves to control the process of fluid conduction.

Mecánica Prisma develops four Pneumatic Actuators ranges, according to different environments of application: Aluminium, Stainless Steel, Polyamide and for High Temperatures. All manufactured according to international norms such as: ISO, DIN, NAMUR, VDE, VDI, ATEX, CE, DNV, PCT, SIL2.

Mecánica Prisma is accredited by quality norm ISO-TS-29001, API Q1 and 65% of its production is exported to more than 45 countries worldwide.





Solenoid Valves and **SWITCHBOXES**

ALPHA CONTROLS | SOLENOID VALVES & SWITCHBOXES



Model No:
ALV510P2C5



Model No:
ALV510F3C5



Model No:
ALV610F3C7



Model No:
ALV610F3C4



Model No:
ALS200M2



Model No:
ALS600M4



Model No:
ALSD500C1S1M2



Model No:
ALS500M2

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Prisma provides a broad range of stainless steel and zinc coated drive adaptors to adapt their range of actuators to any kind of valve shaft.

In addition, we can also provide a range of brackets for any kind of valve adaptation. Prisma mounting brackets are manufactured in a variety of materials including galvanised steel, stainless steel and polyamide to couple the actuator to valves with or without an ISO-5211 mounting pad.



ACCESSORIES

drive adaptors & brackets

ASD-SERIES

Spring-Diaphragm Actuators

ALPHA CONTROLS | SPRING-DIAPHRAGM ROTARY ACTUATORS

Designed and developed specifically for quarter turn valves. The ACHEM ASD Spring-Diaphragm Rotary Actuators were designed by using advanced spring-diaphragm technology that focuses on the crank-shaft and the connecting rod.

The ACHEM ASD Spring-Diaphragm Rotary Actuators are designed to be used with minimal pressure when necessary and can be operated by air, water, mineral-based hydraulic fluid. Our housing and cover are constructed with a ductile iron/ carbon steel casing that is coated with a polyester powder coating. Our independent media room is equipped with a Buna-N diaphragm reinforced with polyamine fabric. These actuators are designed to work in temperatures as low as -40°C (-40°F) and as high as 200°C (392 °F).



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MAIN FEATURES

Universal Mounting Pads - Direct Mount

The ACHEM ASD series offer a combination of different mounting pads that allow you to directly replace existing Spring-Diaphragm Actuator or mount directly to new and existing quarter turn valves.

Namur Mount

The ACHEM ASD Spring-Diaphragm Rotary Actuators are designed to incorporate namur mounting for solenoids, limit switches and positioners.

Multiple Drive Bushing (Removable & Replaceable)

The ACHEM ASD Spring-Diaphragm Rotary Actuators feature removable drive bushings which allow you to mount our actuators to a number of different new or existing valve stem configurations in the field for existing valves or for new valve applications.

High Cycle Life Design & Low-Friction

The ACHEM ASD Spring-Diaphragm Rotary Actuators feature a rolling diaphragm design with a one piece diaphragm retainer and UMW Polyethylene bearing which helps to obtain longevity of the life cycle and exceptionally smooth actuation due to the low-friction that is produced during operation.

Reversible in Field Fail Open or Fail Closed Option

The ACHEM ASD Spring-Diaphragm Rotary Actuators can be quickly and easily changed to the fail open or fail closed positions in the field if necessary.

ACTUATED ASSEMBLIES

custom assembled solutions



At Alpha Controls Ltd we offer a fully bespoke assembled solution for all your actuated assemblies.

Offering one of the largest ranges of solenoid valves from one single source in the UK we've become recognised as one of the UK's leading independent companies of complete actuated assemblies.

We don't just sell actuated valves, our facilities and know-how enable us to provide a range of bespoke assembly solutions designed to each individual customer's specific requirements.

Contact us for more details about how we can make a bespoke solution that would suit any application.



Alpha Controls Range of **VALVES, SWITCHES & FITTINGS**

If you're looking for Compressor or Water Pump Pressure Switches you have surfed to the right place!! Alpha Controls Ltd are the leading supplier and Compressor Control Pressure Switches in the UK.

Combined manual motor starters / switches pressure switches for pumps, compressors and many other applications. Plus a whole new range of pressure switches for all types of fluids and applications with pressure up to 250 psi, and including Eexd versions. Also a new innovative range of single and double pump control specifically designed for pumping stations.



ALPHA CONTROLS | ALPHA RANGE



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