



AVS - the ISO9001-2015 UK experts for all your **electric valve actuation** needs.

Available from stock at www.actuatedvalvesupplies.com

UK's top Actuated Valve Supplier

PLUG & PLAY FUNCTION CONVERSION KITS

BSR FAILSAFE KIT

BSR = Battery 'Spring Return'.

Purpose

To create an internal alternative power source to drive the actuator to a pre-set fail safe position, if not already in that position, should external power be lost.

Kit contents

Industrial NiCad rechargeable battery, control circuit board with trickle charger, switch system (external power to internal) and fixing screws.

Easy to install

This user friendly plug & play kit only takes a few minutes to install and once charged for 28 hours it is ready for use.



DPS MODULATING KIT

DPS = Digital Positioning System

Purpose

To convert a J3C-S actuator from open/ close to proportional control, its movement subsequently controlled by typically a 4-20mA or 0-10V input signal. Highly accurate positioner employing latest digital magnetic position sensing technology.

Kit contents

Replacement cover with control input plug, Din plugs, control circuit board and all the fixings required to install the DPS.

Easy to install

This user friendly plug & play kit only takes a few minutes to install, has an easy to follow dip-switch system to select the format of the control signal and the DPS auto-calibrates.

Actuated Valve Types

Most popular:

BRASS BALL VALVES

2 and 3 way screwed ball valves for general purpose applications typically on water, air and oils.

STAINLESS STEEL BALL VALVES

2 and 3 way ball valves for general purpose applications typically on water, air and oils and a wide range of compatible chemicals. Low pressure, high pressure. Ends can be screwed, weld, sanitary or flanged.

PLASTIC BALL VALVES

2 and 3 way ball valves for general purpose applications typically on water and a wide variety of compatible chemicals.

The J3C-S electric actuator is ideal for plastic valves as it has a plastic housing.

BUTTERFLY VALVES

Wafer or lugged and tapped, the J3C-S is used extensively with butterfly valves.

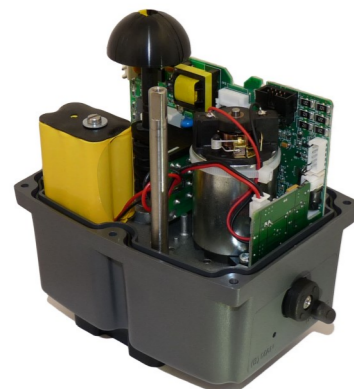
PLUG & PLAY FUNCTION CONVERSION KITS

FAILSAFE ELECTRIC ACTUATORS

A failsafe electric actuator provides the capability to send the electric actuator to a pre-determined failsafe position, either fail closed (NC) or fail open (NO), on loss of external power. The two most common ways of achieving this is either;

- 1) Compressing an internal spring system which is held in compression by the external power. On loss of power, the spring system sends the actuator to the fail safe position.
- 2) Storing sufficient energy in a battery or capacitor that can be used when external power is lost

J+J use an internal industrial rechargeable battery and trickle charger in its 'BSR' failsafe system.



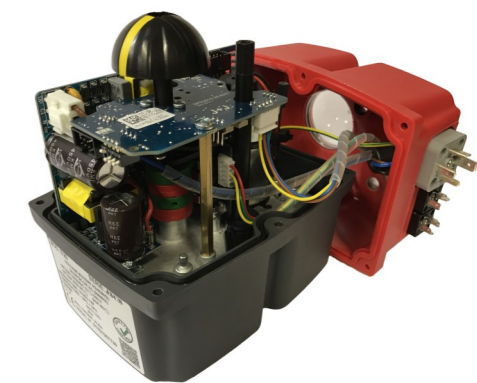
With BSR battery failsafe installed

MODULATING ELECTRIC ACTUATORS

A modulating electric actuator provides the capability to send the electric actuator to a position proportional to an input control signal. This input signal is the output typically from a process controller or PLC, where flow, level or temperature, for example, need to be controlled. The process variables are generally converted to a 4-20mA or a 0-10V output, which becomes the input to the AVS modulating electric actuator.

Many control circuits are 'open loop' whereby the control system assumes that a command has been correctly actioned, or 'closed loop' where the device receiving the command feeds back that the command has been completed. Closed loop control systems therefore provide positive confirmation.

The DPS is a closed loop device as it provides a feedback (or output) signal as standard.



J3C-S with DPS positioner installed