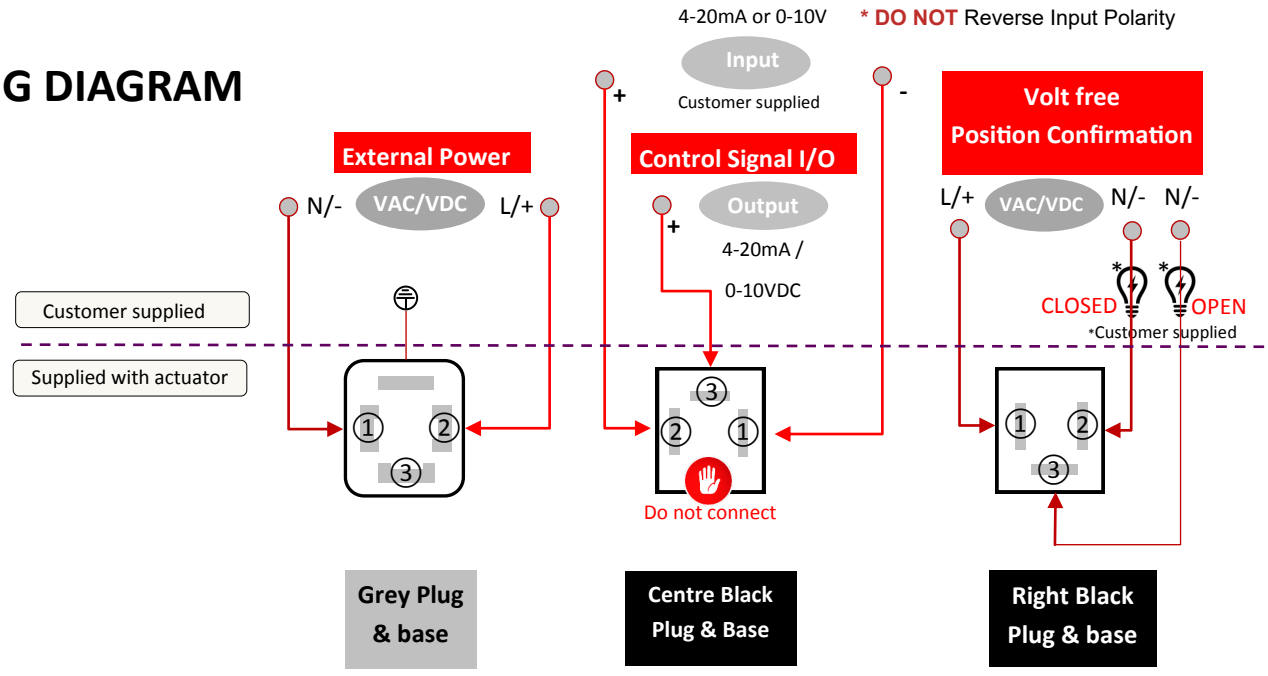
3 x DIN Plugs

Modulating plug &
play kit pre-installed

How this JE Series modulating electric valve actuator works

With power permanently connected, movement of the JE actuator is then proportional to an input control signal, typically 4-20mA or 0-10V, usually the output from a process controller. The DPS processor continually compares the physical position of the JE output shaft to the input signal, and if a difference exists, controls the motor to eliminate the difference. In the JE the output shaft position is measured very accurately using digital magnetic position sensing technology. An output signal for closed loop control is provided as standard.

WIRING DIAGRAM



JE Series Digital Positioner Specifications:

Detail	JE Series
Input/ Output options	0-10V, 1-10V, 0-20mA, 4-20mA
Output shaft feedback system	Magnetic, digital
Accuracy, linearity, hysteresis, repeatability	Better than 2%

In the interest of product improvement, specifications may change without notice.

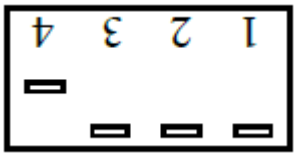
Setting the control signal format

In the modulating version of the JE actuator, DIP switches are employed to set the format of the control signal input/ output as follows:

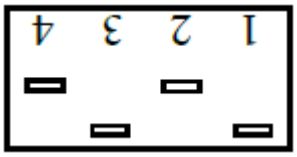
	CALIBRATION PROCEDURE
1	Push dip switch '1' up, to 'ON'
2	Connect the grey power Din plug and apply external power
3	Pull dip switch '1' down . The actuator will now make a complete operation to auto-calibrate and set the zero and span.
4	Set the dip switches according to the diagrams below to configure the DPS for control signal and command on the loss of the control signal.
5	Apply the control signal and test. On conclusion of a satisfactory test, the modulating actuator is ready for use

DIP SWITCH SETTINGS

4-20mA

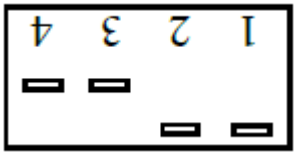


4mA - CLOSE / 20mA - OPEN

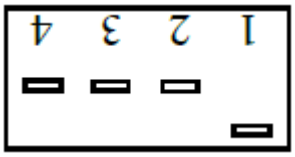


4mA - OPEN / 20mA - CLOSE

0-10V

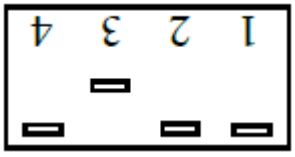


0V - CLOSE / 10V - OPEN



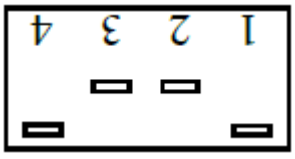
0V - OPEN / 10V - CLOSE

1-10V



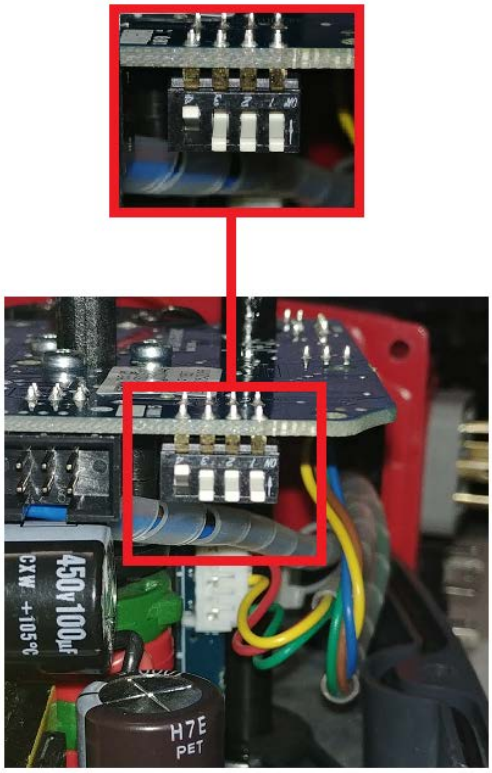
1V - CLOSE / 10V - OPEN

CLOSE ON LOSS OF CONTROL SIGNAL



1V - OPEN / 10V - CLOSE

OPEN ON LOSS OF CONTROL SIGNAL



JE Multi-colour LED status light:

Actuator operational status	LED Colour
No power being supplied	Off
Actuator in MANUAL mode	Flash
Torque limiter activated	If closing when activated = flash if opening = flash
Actuator with DPS (2015) positioner	Opening = flash Closing = flash Stationary =