

Model J3 – H85

in clearing the jam.

supply.

failure.

The effect of condensation is

mostatic anti-condensation

separate independent power

Standard function for the

close, stays put on power

New to the $\mathbf{J3}$ are plug and

play accessories -- the function

can be changed to either failsafe

or modulating by fitting the new

The modulating kit has the new

plug and play conversion kits.

digital positioner that offers

ting functionality.

box!

auto-calibrating and self reset-

These conversion kits are avail-

able as optional extras.

The LED flashes on/ off

When the actuator senses an

impending valve jam, the elec-

repeatedly flashes the LED on

tronic torque limiter is acti-

vated and on activation,

The **J3** is a very smart red

J3-H85 is power open, power

eliminated by an internal ther-

heater that does not require a



Doc: J3-H85/01 Jan 2008

Feature rich **J**+**J** multi-voltage actuator with LED status light and plug & play accessories.

New in 2008, the **J**³ range of electric actuators takes its highly successful predecessor, the J2 range, to the next level.

With an all new, rugged weatherproof and anti-corrosive Polyamide housing, the **J**3 offers more user-friendly features than the J2, and introduces a highly visible LED status light.

This visual indicator shows whether the actuator is operating correctly, or has tripped out either by its electronic torque limiter, or has been left in 'manual' mode.

Site operators are no longer left with the 'valve or actuator?' question when an actuator doesn't respond to a signal.

The **J**³ is quick and easy to install, with IS0:5211 multiflange mounting and a double square drive, allowing fast mounting to ISO:5211 valves. There is no need to remove the cover to connect the **J3** electrically, saving installation time.

Using the external DIN plugs and external wiring diagrams supplied with the actuator, installations can be pre-wired.

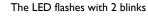


Protection against valve jams is provided by an electronic torque limiter, which autorelaxes the gearbox when activated, allowing the manual override to be selected to assist

J3 Status light functions:

Constantly lit LED

If the actuator is operating correctly with no faults, the LED shows a constantly lit light.



If the actuator has been left in 'manual' mode, the actuator's motor runs but doesn't drive the output shaft. After a pre-set time, the actuator knows that as the torque limiter has not activated and that the motor is running, it must be in manual.



Quick guide to the **J3**'s standard features :

Multi-voltage with auto-voltage sensing. 110 ~ 24V0 AC or DC .

LED Status light to indicate operational status of actuator

Electronic over-torque protection against valve jams

Thermostatic anti-condensation heater

Manual override for emergency hand operation

2 Volt free end of travel confirmation switches

IP65 weatherproof anticorrosive and UV protected Polyamide housing

Local visual position indicator

ISO5211 multi-flange mounting with double square drive

All external electrical connections via supplied DIN plugs

CE marked

ISO 9000 manufacturer

Failsafe and digital positioner plug & play kits available.

and off.

Model **J3** – H85



The all new **J3** - 85

Visual indication of the actuator's operating status is constantly shown by a highly visible LED light.

Specifications: J3 – H85

Voltage range - automatically sensed by actuator		85-240 AC (1ph) or DC
Operating time (0-90° no load)		10 seconds
Maximum break torque		93.5 Nm / 827 lb.ins
Maximum operating torque (run/ reseat)		85 Nm / 752 lb.ins
Duty rating		75%
IP Rating (IEC 60529)		IP65
Working angle	Standard (on request)	90° (180° or 270° options)
Mounting ISO:5211 x DIN 3337		F05 & F07 × 17
Motor switches		2 x SPDT micro switches
End of travel confirmation (volt free)		2 x SPDT micro switches
Heater		4 W
Ambient temperature range		-20° to +60° C
Electrical connecting plugs		DIN 43650/ ISO4400 & C192
Consumption:		
240V/1ph	Maximum torque, heater on/ off	0.21 A/ 0.19A
240V DC	Maximum torque, heater on/ off	0.09A/ 0.08A
110V/ Iph	Maximum torque, heater on/ off	0.38A/ 0.37A
110V DC	Maximum torque, heater on/ off	0.18A/ 0.17A
Weight		2.0 kg

Materials of construction:

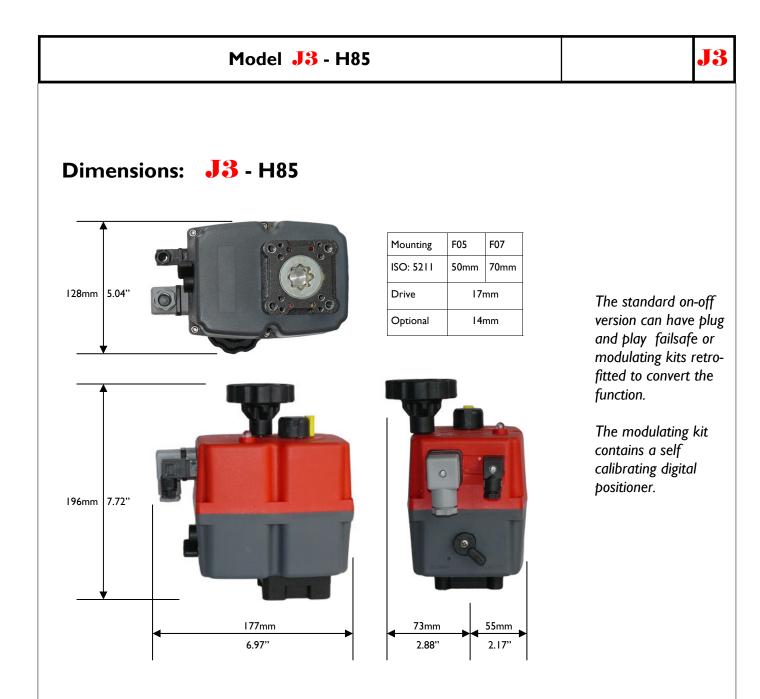
Anti-corrosive Polyamide
Stainless steel
Polyamide (speed reducing) & steel
Stainless steel
Zammac
Glass filled Polyamide

Method of operation:

On receipt of a continuous power signal within the voltage range shown above, the motor runs and, via a flat gear system, rotates the output shaft. The motor is stopped by internal cams striking micro switches. On receipt of a reversing continuous signal, the motor turns in the opposite direction reversing the output drive.

Note:

The power signal needs to remain on at all times to activate the thermostatic anti-condensation heater. The volt free end of travel confirmation switches must NOT be used to cut the power.



Change of function retro-fit kits:

Failsafe option

This kit converts the actuator to a failsafe unit using a BSR (Battery 'Spring Return') system that provides an alternative (battery) power supply to set the actuator in the failsafe position should the main power supply fail.

It can be configured normally open, or normally closed.



Modulating Option

Using the new self calibrating and self adjusting digital positioning system, this kit converts the actuator to a modulating device using either a 4-20mA or 0-10VDC control signal.



LED status light



Model **J**3 Wiring Diagram - AC or DC Doc: J3/STD.WD/01 Jan 2008 AC (Iph) OR DC SUPPLY - WIRING FOR ON-OFF OR FAILSAFE ACTUATORS POWER SUPPLY CAN BE EITHER 3 OR 2 WIRE END OF TRAVEL CONFIRMATION 3 WIRE SYSTEM 2 WIRE SYSTEM à VOLT FREE Œ) Œ POWER POWER CONTACT CONNECTION CONNECTION Œ CONNECTION ©ځ 3 2 C (1)2 C י@י 2 1 0 🔿 0 1 г-л പ്പ 3 Ê B 1 CUSTOMER CUSTOMER CUSTOMER CUSTOMER TO SUPPLY T0 SUPPLY ΤD TO SUPPLY SHPPLY CLOSE OPEN OPĚN CLOSE S SWITCH S SWITCH L7+ AC 1PH SUPPLY CLOSED OPEN 0R DC SUPPLY 0R eg: Lights on a DC SUPPLY control panel N/-VOLT FREE CONTACTS (S)= CHANGE-OVER SWITCH (S)=<u>REVERSING POLARITY SWITCH</u> Factory set at 0 & 90° To supply continuous signal until end of travel is reached To supply continuous signal until end Switches rated 220V 5A of travel is reached Above wining showing same supply ANTI-CONDENSATION HEATER as motor is a suggestion only. Operates only whilst power is 'on'. Power can be left 'on' permanently. CUSTOMER NB: READ INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS BEFORE CONNECTING. ΤO SUPPLY FUNCTION: ON-OFF VERSION FUNCTION: FAILSAFE VERSION

Power open, power close Stays put on mains power failure Power open, power close - trickle charges battery system in either open or closed position Actuator sent by battery power to pre-set failsafe position on power failure Actuator returns to pre-failure position on power resumption. Failsafe can be either NC (normally closed) or NO (normally open)

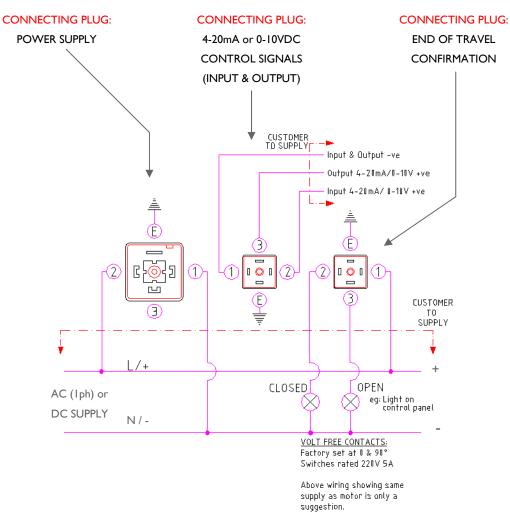




Wiring Diagram - AC or DC

Jan 2008

AC (Iph) OR DC SUPPLY - WIRING FOR MODULATING ACTUATORS



NB: READ INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS BEFORE CONNECTING.

FUNCTION: MODULATING VERSION Power open, power close - actuator movement controlled by input signal (4-20mA or 0-10VDC) Standard operation: 4mA or 0V = actuator closed, 20mA or 10V = actuator open (can be reversed) Standard operation: Actuator closes on loss of control signal, stays put on loss of mains power Output signal (in same format as supply signal) provided as standard.



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