

Model **J3**-1100

Doc: J3/1100/01 Nov 2007

Electrically operated 2 way brass ball valve

Full bore 2 way nickel plated brass ball valve, designed for automation with integrally cast ISO5211 actuator mounting platform fitted with direct mounted J3 electric actuator. Supplied assembled and dry bench function tested. Size range from 1/2" to 2". Valves are WRAS approved for use on potable water.

Туре	Function
J3 -1103	Standard power to open - power to close
	- Stays put on mains failure
J3 -1104	Failsafe BSR - Battery Spring Return
	- Fails to safe position using an internal battery
J3 -1105	Modulating DPS - Digital Positioning System

- Controlled by 4-20mA or 0-10V signal

Applications:

Water, oil and most non-corrosive media, subject to compatibility with wetted parts in contact with media. Actuators sized on a maximum differential pressure of 10 bar wet service, if the intended duty is above this differential, or dry (air or gas) call to check actuator sizing as a larger output actuator may be required. NOT recommended for use on steam.

Maximum working temperature of assembly is +70C. If the intended duty is a higher temperature than this, select model J3-1110 which has a mounting kit between the valve and actuator which uses air cooling to dissipate the heat away from the actuator (maximum +130C).

Valve Specifications:

Nickel plated brass		
Nickel plated brass		
PTFE		
UTI 2" 40 bar		
-20 to +150°C		
-20 to + 70°C		

J3 Actuator status light basic functions:

Constantly lit LED

If the actuator is operating correctly with no faults, the LED shows a constantly lit light. The LED flashes with 2 blinks

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 is in 'manual'.



The LED flashes on - off

When the actuator senses an impending valve jam, the electronic torque limiter is activated and on activation, repeatedly flashes the LED on and off.



Quick guide to the J3 electric actuator standard features :

Highly visible LED light gives continuous actuator status indication.

J3 L - 12-24V AC/DC

J3 H - 80-240V AC/DC

Multi-voltage capable with autovoltage sensing:

Torque output: range: 25~95Nm Break 20~80Nm Reseat

Electronic torque limiter - protects against valve jams

Anti-condensation heater

Manual override

All connections via external DIN plugs ~ no need to remove cover to connect

Volt free end of travel

confirmation switches

IP65 weatherproof housing

CE marked

Traceable sequential serial numbering system

Optional failsafe kit (Battery Back-up) - actuator fails to safe position on power failure

Optional modulating kit with digital positioning system, either 0-10V or 4-20mA



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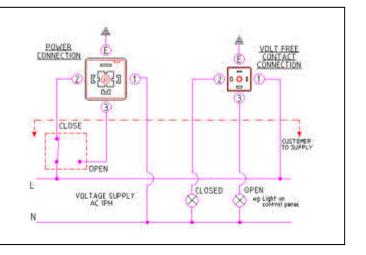
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WIRING DIAGRAMS

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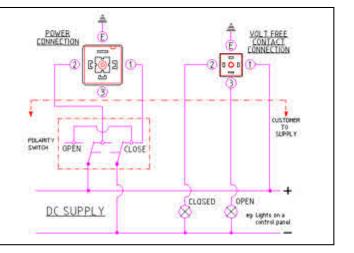
AC (IPH) WIRING FOR ON-OFF & FAILSAFE ACTUATORS

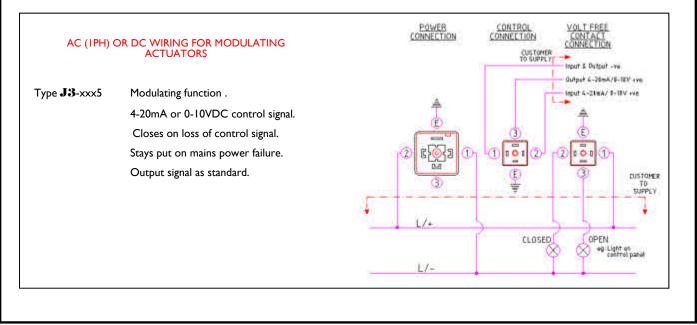
Туре ЈЗ -ххх3	Standard on-off function.			
	Power open, power close.			
	Stays put on mains power failure.			
Туре ЈЗ -ххх4	On-off failsafe function.			
	Power open, power close, but fails			
	to pre-set position on mains power failure.			
	Closed = Normally closed			
	Open = Normally open			



DC WIRING FOR ON-OFF & FAILSAFE ACTUATORS

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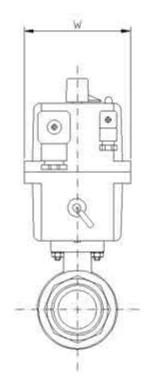


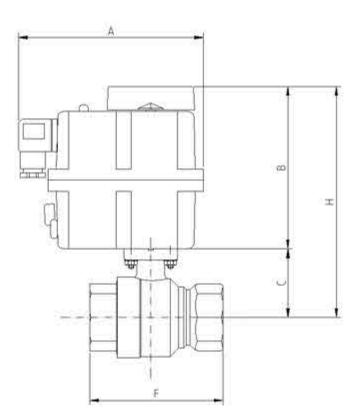


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DIMENSIONS

Electrically operated 2 way brass ball valve - Dimensions (to nearest mm)





Dimensions	Dimensions remain unchanged for all versions (on-off, failsafe & modulating)											
	Model	А	В	С	F	н	w	Kilos	Κv			
1/2"	20	177	149	31	59	180	110	1.8	16.3			
3/4"	20	177	149	37	69	186	110	1.9	29.5			
١"	20	177	149	41	83	190	110	2.2	43.0			
11/4"	20	177	149	47	94	196	110	2.5	89.0			
11/2"	20	177	149	58	102	207	110	2.9	230.0			
2"	20	177	149	66	124	215	110	3.7	265.0			

 $\mathsf{K} \mathsf{v}$ is in $\mathsf{m}^3/\mathsf{hr},$ based on water at ambient temperature with a 1 bar pressure drop across the valve

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