

J3

Model J3-2310E



Doc: J3/2310E/01

Nov 2007

Electrically operated ECON 3 way 316SS ball valve with kit

Reduced bore ECON 3 way 316 stainless steel ball valve, designed for automation with integrally cast ISO5211 actuator mounting platform fitted via stainless mounting kit with J3 electric actuator. Supplied assembled and dry bench function tested. Full size range from 1/4" to 2". Available in 'L' or 'T' port.



Type	Function
J3-2313	Standard power to open - power to close - Stays put on mains failure
J3-2314	Failsafe BSR - Battery Spring Return - Fails to safe position using an internal battery
J3-2315	Modulating DPS - Digital Positioning System

Applications:

Water, oil and many corrosive medias, subject to compatibility with wetted parts in contact with media.

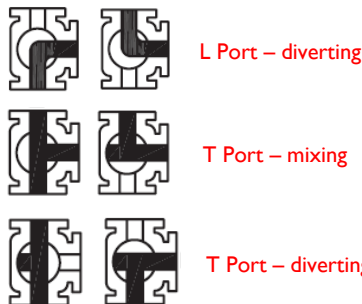
Actuators sized on a maximum differential pressure of 10 bar wet service, if the intended duty is above this differential, or dry (air or gas) call to check actuator sizing as a larger output actuator may be required.

Maximum working temperature of assembly is +130C. If the intended duty is at a lower temperature than +70C, select model J3-2300E which has a direct mounted actuator and offers a more compact and cost effective.

Valve Specifications:

Body	CF8M Cast 316SS
Ball	CF8M Cast 316SS
Seats	RTFE
Pressure rating	UT1 2" 1000psi CWP
Valve temp limits	-20 to +200°C
Actuator temp limits	-20 to + 70°C

3 Way ball valves – flow patterns:



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 must be 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 auto-voltage sensing:

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

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

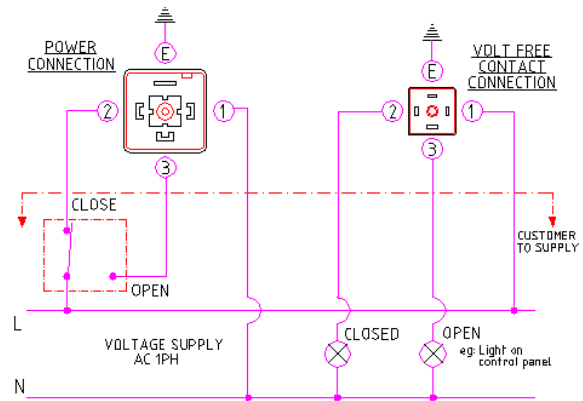
Traceable sequential serial numbering system

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

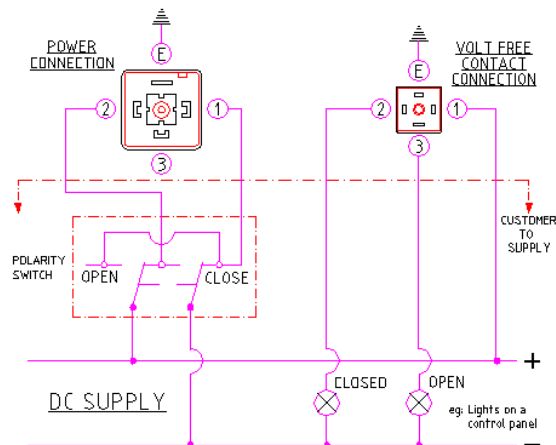
AC (1PH) WIRING FOR ON-OFF & FAILSAFE ACTUATORS

- Type **J3-xxx3** Standard on-off function.
Power open, power close.
Stays put on mains power failure.
 - Type **J3-xxx4** On-off failsafe function.
Power open, power close, but fails to pre-set position on mains power failure.
- Closed = Normally closed
Open = Normally open



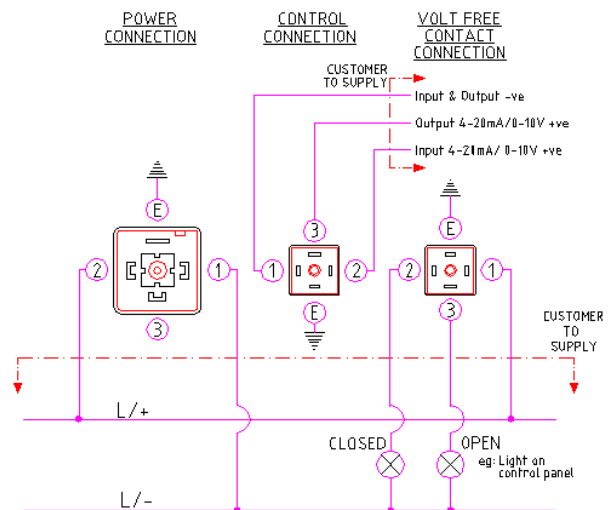
DC WIRING FOR ON-OFF & FAILSAFE ACTUATORS

- Type **J3-xxx3** Standard on-off function.
Power open, power close.
Stays put on mains power failure.
 - Type **J3-xxx4** On-off failsafe function.
Power open, power close, but fails to pre-set position on mains power failure.
- Closed = Normally closed
Open = Normally open



AC (1PH) OR DC WIRING FOR MODULATING ACTUATORS

- Type **J3-xxx5** Modulating function .
4-20mA or 0-10VDC control signal.
Closes on loss of control signal.
Stays put on mains power failure.
Output signal as standard.



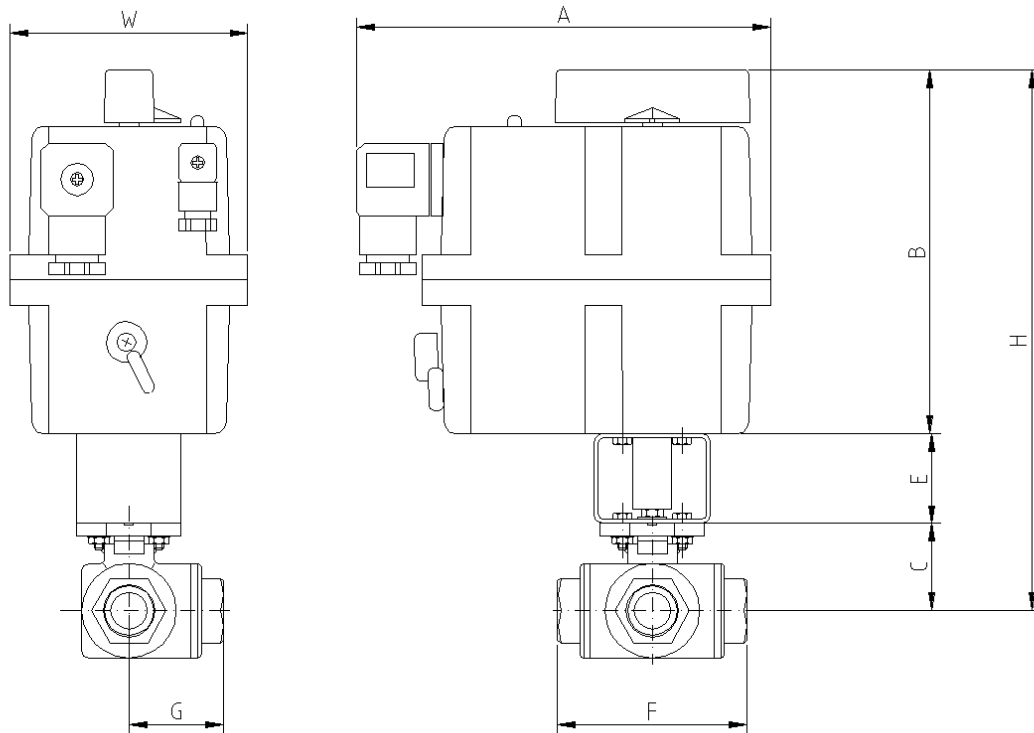
J3**Model J3-23 I0E**

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DIMENSIONS

Electrically operated ECON 3 way stainless ball valve and kit - Dimensions (to nearest mm)



Dimensions remain unchanged for all versions (on-off, failsafe & modulating)

	Model	A	B	C	E	F	G	H	W	Kilos
1/4"	20	177	149	39	50	72	36	238	110	2.4
3/8"	20	177	149	39	50	72	36	238	110	2.4
1/2"	20	177	149	41	50	83	42	240	110	2.4
3/4"	20	177	149	49	50	99	50	248	110	2.6
1"	20	177	149	55	50	112	56	254	110	3.4
1 1/4"	35	177	171	63	50	125	63	284	110	5.0
1 1/2"	55	177	196	74	50	149	75	320	110	6.4
2"	55	177	196	93	50	174	87	339	110	9.3



Valve Data Sheet



Doc: SBV-M39/02

Nov 2007

Reduced bore direct mount 3 way stainless steel ball valve



3 Way ball valves – flow patterns:



L Port – diverting



T Port – mixing



T Port – diverting

Specifications:

Construction	3 Way reduced bore direct mount ball valve
Size Range (Full)	1/4" to 2" BSP
Pressure Rating	1000 psi max
Valve Body Material	ASTM A351CF8M
Trim Material	ASTM A351CF8M
Seat Material	RTFE x 4
Seal Material (Options)	PTFE
Inspection & Test	API 598 BS6755 Pt 1
Standards	ISO5211 DIN 259, DIN3337.
Certification	Certificate of Conformity
Temperature Range	-20 to +200C

Approvals:

Approved ?



PED/97/23/EC



ATEX 94/9/EC
II 2 GD



API 607 4th Ed'n /
BS6755 Pt 2



TA-Luft



Dimensions:

SIZE DN	BORE	B	E	H	L	W	ISO5211
1/2"	12	9	130	62	72	36	F03/04
3/4"	15	9	130	64	83	42	F03/04
1"	20	11	165	82	99	50	F04/05
1 1/4"	25	11	165	89	112	56	F04/05
1 1/2"	32	14	205	98	125	63	F05/07
2"	38	14	205	108	149	75	F05/07

