



# AVOL Model J3-6100 Motorised Butterfly Valve

## Electrically operated water pattern butterfly valve

Coated iron wafer pattern butterfly valve with stainless steel disc and EPDM liner, fitted with a **J3** electric actuator. Supplied assembled and dry bench function tested. Full size range from 1 1/2" to 12". Sandwich mounts between BS4504, ASA150 or BST 'D/E' flanges. Valves are WRAS approved for use on potable water.

### Code

### Function

- J3-6103** Standard power to open - power to close  
- Stays put on mains failure
- J3-6104** Failsafe BSR - Battery Spring Return  
- Fails to safe position using an internal battery
- J3-6105** Modulating DPS - Digital Positioning System

### Applications

Water and many acid or alkali, or solvent solutions, 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 +70°C. If the intended duty is a higher temperature than this, select model **J3-6110** which has a mounting kit between the valve and actuator which uses air cooling to dissipate the heat away from the actuator (standard kit: maximum +130°C).

### Valve Specification

Body	Coated cast iron
Disc	Stainless steel
Liner	EPDM (others on request)
Pressure rating	UTI 6" 16 bar, rest 10 bar
Valve temp limits	0 to +95°C
Actuator temp limits	-20 to +70°C



### J3 Actuator status light basic function:

#### 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 auto-voltage 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

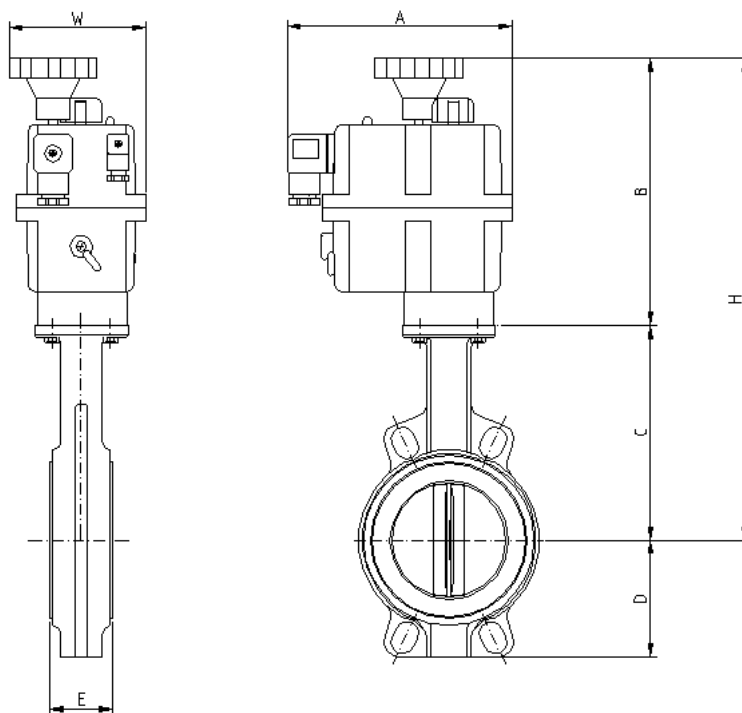


## ACTUATED VALVES

# AVOL Model J3-6100

## DIMENSIONS

Electrically operated wafer pattern butterfly valve - Dimensions (to nearest mm)



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

	Model	A	B	C	D	E	H	W	Kilos
2"	20	177	149	126	84	43	275	110	3.9
2 1/2"	20	177	149	134	93	46	283	110	4.6
3"	35	177	171	157	104	46	328	110	6.0
4"	55	177	196	167	115	52	363	110	7.4
5"	55	177	196	180	127	56	376	110	9.1
6"	J2-140	235	254	203	150	56	457	214	17.2
8"	J2-140	235	254	228	176	60	482	214	21.2
10"	J2-300	235	254	266	212	68	520	214	31.7
12"	J2-300	235	254	291	237	78	545	214	41.2