



V A L V E

2- and 3-POINT Mixing-Actuators

4.10

Application

The JOVENTA VALVE electric mixing-actuator series is intended for operating water valves such as mixing valves, butterfly valves, inter-flange dampers and ball valves. The mixing-actuator is designed so that it can be fitted, using the relevant fitting kit, to many different makes of valves. The universal coupler between the actuator and valve make an uncomplicated application possible.

Key features

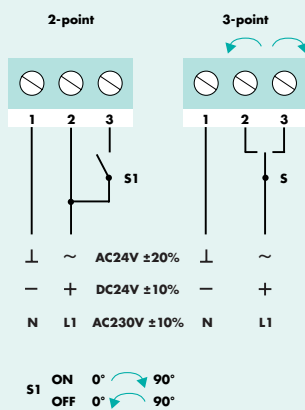
- 2- or 3-point control
- Load-independent running time
- Plug-in terminal block connection
- Selectable direction of rotation
- Manual adjustment by pushing the release button and turning the handle with position indicator (The release button does not automatically spring back into position)
- 2 adjustable auxiliary switches See back page for settings
- Automatic shut-off at end position (overload switch)
- Energy saving at end positions
- Actuators available with 1 m halogen-free cable
- Customized versions available
- Devices meet CE requirements

Nomenclature/Specification/Technical data

MA1	AC/DC24V	
MA1.S	AC/DC24V	with 2 auxiliary switches
MA2	AC230V	
MA2.S	AC230V	with 2 auxiliary switches
... . K		with 1 m halogen-free cable

Actuator	MA1.(S)	MA2.(S)
Torque	16 Nm	16 Nm
Running time	120 s	120 s
Supply voltage	AC/DC24V	AC230V
Frequency	50-60 Hz	50-60 Hz
Power consumption		
- Running	2.0 W	2.0 W
- At end position	0.4 W	0.4 W
Dimensioning	2.1VA/ 3.4A @ 2 ms	2.0VA / 0.25A @ 2 ms
Weight	1.4 kg	1.4 kg
Control signal	2-point or 3-point	
Position signal	None	
Angle of rotation / working range	90° (93° mech.)	
Angle of rotation / limitation	None	
Service lifetime	60,000 rotations	
Auxiliary switches	3(1.5)A, AC230V	
Setting range / adjustable	5°...85° < infinity	
Noise level	45 dB (A)	
Protection class	II	
Degree of protection	IP 54 (cable downwards)	
Cable aperture connection	M16 x 1.5	
Mode of action	Type 1	
Ambient conditions		
- Operating temperature	-20...+50°C / IEC 721-3-3	
- Storage temperature	-30...+60°C / IEC 721-3-2	
- Humidity	5...95% r.F.	
Service	Maintenance free	
Standards	Mechanics	EN 60 529 / EN 60 730-2-14
	Electronics	EN 60 730-2-14
	EMC Emissions	EN 50 081-1:92 / IEC 61 000-6-3:96
	EMC Immunity	EN 50 082-2:95 / IEC 61 000-6-2:99

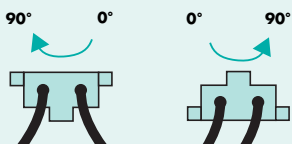
Wiring diagram



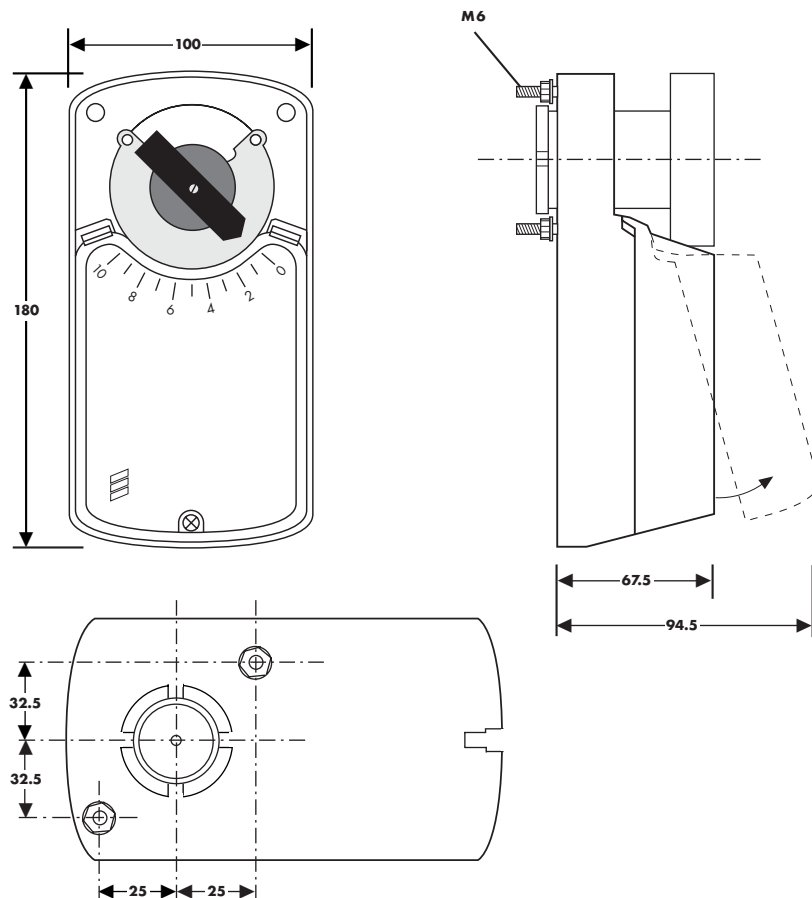
Changing the direction of rotation

The direction of rotation can be changed by reversing plug c.

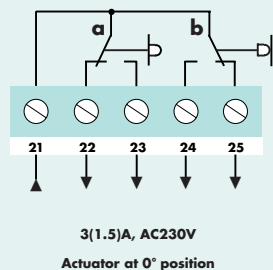
Factory setting



Dimensions in mm



Auxiliary switches (S)



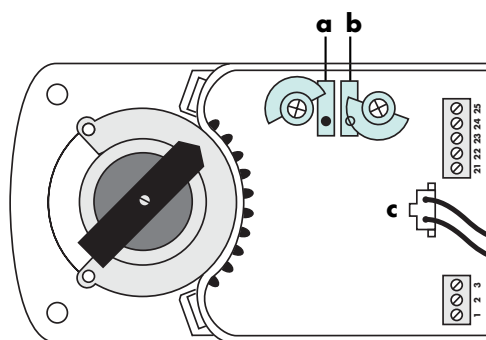
Setting the auxiliary switches

Factory setting

Switch **a** at 10°

Switch **b** at 80°

The switching position can be manually changed to any required position by turning the ratchet.



Accessories Mixer mounting kits

ZMA001 for Esbe mixers

ZMA002 for Centra-Duplex mixers

ZMA003 for Holter mixers

ZMA004 for GF ball valves

Mounting instruction

