



Advantages/Benefits

- ▶ 10, 12 or 20 Nm nominal torque
- ▶ Open/closed with choice of rotation speeds
- ▶ Flange interface ISO 5211
- ▶ Corrosion resistant
- ▶ Available with manual override
- ▶ IP 65 rating

Design/Function

The rotary actuators are compact, powerful units, which will provide a long service life.

Materials and components have been chosen for maintenance-free operation even in aggressive environments and ensure low thermal loading on the actuator.

The modular design offers many options such as extra limit switches, potentiometers, 4-20mA position control to be added to the basic unit.

Applications

The electric actuators operate control devices, such as:

- Ball valves
- Butterfly valves
- Disc valves
- Ventilators
- Mixer valves, e.g. in chemical industry, water treatment industry, or dosing and bottling industry.



Technical Data

Specifications

Activation	<ul style="list-style-type: none"> • standard rotation direction with end position limit switches • standard signal (reversible rotation direction) 4-20 mA ¹⁾ 0-10 V ²⁾ 						
Rotation angle	90° 180°						
Output torque (for rotation time and type of voltage)	<table border="0"> <tr> <td>10 s/ 90° AC</td> <td>10 Nm</td> </tr> <tr> <td>10 s/ 90° DC</td> <td>12 Nm</td> </tr> <tr> <td>30 s/ 90° AC,DC</td> <td>20 Nm</td> </tr> </table>	10 s/ 90° AC	10 Nm	10 s/ 90° DC	12 Nm	30 s/ 90° AC,DC	20 Nm
10 s/ 90° AC	10 Nm						
10 s/ 90° DC	12 Nm						
30 s/ 90° AC,DC	20 Nm						
Rotation time	10 s/ 90° 30 s/ 90°						
Drive	Male square						
Flange interface	ISO 52 11 part 1 and 2 F05						
Body material	Polycarbonate						
Ambient temperature	-20 °C to +50 °C						
Weight	approx. 1,7 kg (depending on version)						
Standard version	<ul style="list-style-type: none"> • reversible rotation direction • manual override • optical position indication 						
Delivered standard	"closed" position min. signal = "closed" position						

Electrical Data

Operating voltages	230 V/ 50 Hz 24 V/=			
Voltage tolerance	AC ±10 % DC ±20 %			
Power consumption (in warm condition with rotation time, voltage type)	<table border="0"> <tr> <td>AC approx. 12 W</td> </tr> <tr> <td>10 s/ 90° DC approx. 7 W</td> </tr> <tr> <td>30 s/ 90° DC approx. 5 W</td> </tr> </table>	AC approx. 12 W	10 s/ 90° DC approx. 7 W	30 s/ 90° DC approx. 5 W
AC approx. 12 W				
10 s/ 90° DC approx. 7 W				
30 s/ 90° DC approx. 5 W				
standard interface	AC approx. 1 W DC approx. 2 W (electronic circuit)			
Duty cycle	AC 70 % intermittent operation 5 min. DC (ED) 100 %			
Electrical connection	<ul style="list-style-type: none"> • cable plug to DIN 43 650 • standard signal, 2 cable plugs 			
Limit switch	single-pole switch, max. 250 V/2,5 A current rating			
Rating	IP 65			
Accuracy of standard signal activation	deviation of linearity < ±1,5 % hysteresis < ±1,5 %			

¹⁾ Input resistance < 50 Ω

²⁾ Input resistance >10 kΩ

Ordering Chart (Other Versions on Request)

Activation	Rotation Angle	Output Torque	Rotation Time 90°	Voltage/ Frequency	Order-No.
DC	90°	12 Nm	10 s	024/=	000 997 S
AC	90°	10 Nm	10 s	230/50	000 953 D
DC	90°	20 Nm	30 s	024/=	000 954 E
4-20 mA	90°	12 Nm	10 s	024/=	000 998 B
		10 Nm	10 s	230/50	000 999 C
0-10 V	90°	20 Nm	30 s	024/=	001 014 Q
AC	180°	20 Nm	30 s	230/50	001 080 X ¹⁾

¹⁾ With 2 additional limit switches and PG cable gland.