

# Rotary actuator for 2 and 3-way ball valves

- Torque 20 Nm
- Nominal voltage AC 100 ... 240 V
- · Control: Open/close or 3-point



Technical data		
Electrical data	Nominal voltage	AC 100 240 V. 50/60 Hz
	Power supply range	AC 85 265 V
	Power consumption In operation	2.5 W at nominal torque
	At rest	0.4 W
	For wire sizing	6 VA
	Connection	Cable 1 m, 3 x 0.75 mm <sup>2</sup>
	Parallel connection	Possible, note performance data
Functional data	Torque (nominal torque)	Min. 20 Nm at nominal voltage
	Manual override	Gearing latch disengaged with pushbutton (temporary-permanent)
	Running time	90 s / 90° <
	Noise level	Max. 45 dB (A) (without the valve)
	Position indication	Mechanical, add-on
Safety	Protection class	II Totally insulated □
Guioty		
Guioty	Degree of protection	IP54 in any mounting position
Guisty	EMC	IP54 in any mounting position CE according to 89/336/EEC
Guisty	EMC Low voltage directive	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG
Guisty	EMC Low voltage directive Mode of operation	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG Type 1 (to EN 60730-1)
Guisty	EMC Low voltage directive Mode of operation Rated impulse voltage	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG Type 1 (to EN 60730-1) 4 kV (to EN 60730-1)
Guisty	EMC Low voltage directive Mode of operation Rated impulse voltage Control pollution degree	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG Type 1 (to EN 60730-1) 4 kV (to EN 60730-1) 3 (to EN 60730-1)
Guisty	EMC Low voltage directive Mode of operation Rated impulse voltage Control pollution degree Ambient temperature range	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG Type 1 (to EN 60730-1) 4 kV (to EN 60730-1) 3 (to EN 60730-1) 0 +50°C
Guisty	EMC Low voltage directive Mode of operation Rated impulse voltage Control pollution degree	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG Type 1 (to EN 60730-1) 4 kV (to EN 60730-1) 3 (to EN 60730-1) 0 +50°C +5 +100°C (in ball valve)
Guisty	EMC Low voltage directive Mode of operation Rated impulse voltage Control pollution degree Ambient temperature range Media temperature	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG Type 1 (to EN 60730-1) 4 kV (to EN 60730-1) 3 (to EN 60730-1) 0 +50°C +5 +100°C (in ball valve) -10°C with stem heating upon request
Gallery	EMC Low voltage directive Mode of operation Rated impulse voltage Control pollution degree Ambient temperature range Media temperature Non-operating temperature	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG Type 1 (to EN 60730-1) 4 kV (to EN 60730-1) 3 (to EN 60730-1) 0 +50°C +5 +100°C (in ball valve) -10°C with stem heating upon request -40 +80°C
Gallery	EMC Low voltage directive Mode of operation Rated impulse voltage Control pollution degree Ambient temperature range Media temperature Non-operating temperature Ambient humidity range	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG Type 1 (to EN 60730-1) 4 kV (to EN 60730-1) 3 (to EN 60730-1) 0 +50°C +5 +100°C (in ball valve) -10°C with stem heating upon request -40 +80°C 95% r.H., non-condensating (to EN 60730-1)
Callsty	EMC Low voltage directive Mode of operation Rated impulse voltage Control pollution degree Ambient temperature range Media temperature Non-operating temperature	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG Type 1 (to EN 60730-1) 4 kV (to EN 60730-1) 3 (to EN 60730-1) 0 +50°C +5 +100°C (in ball valve) -10°C with stem heating upon request -40 +80°C
Dimensions / Weight	EMC Low voltage directive Mode of operation Rated impulse voltage Control pollution degree Ambient temperature range Media temperature Non-operating temperature Ambient humidity range	IP54 in any mounting position CE according to 89/336/EEC CE according to 73/23/EWG Type 1 (to EN 60730-1) 4 kV (to EN 60730-1) 3 (to EN 60730-1) 0 +50°C +5 +100°C (in ball valve) -10°C with stem heating upon request -40 +80°C 95% r.H., non-condensating (to EN 60730-1)

# Safety notes



- The rotary actuator has been designed for use in stationary heating, ventilation and air conditioning systems and is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Caution power supply voltage!
- It may only be installed by suitably trained personnel.
   All applicable legal or institutional installation regulations must be complied with.
- The switch for changing the direction of rotation may only be operated by authorized personnel. The direction of rotation must not be reversed in a frost protection circuit.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- · The cable must not be removed from the device.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

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# **Product features**

Simple direct mounting Straightforward direct mounting on the ball valve with only one screw. The assembly tool is

integrated in the plug-on position indicator. The mounting position in relation to the ball valve can

Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.

The actuator is overload-proof, requires no limit switches and automatically stops when the High functional reliability

end stop is reached.

### **Accessories**

**Notes** 

	Description	Data sheet
Electrical accessories	Auxiliary switch SA	T2 - SA
	Feedback potentiometer PA	T2 - PA

# **Electrical installation**

· Caution power supply voltage.

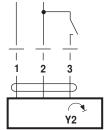
· Parallel connection of other actuators possible. · Direction of rotation switch is covered. Factory setting: Direction of rotation Y2

# Wiring diagram

# Open-close control

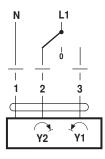
# Direction





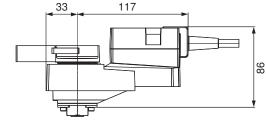
Rota	ry actuator	Rotary valve
Y2	<b>→</b>	A - AB = 0%

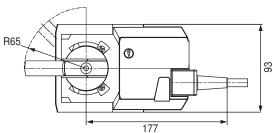
# 3-point control



# **Dimensions** [mm]

# **Dimensional diagrams**





# **Further documentations**

- Complete overview of actuators for water solutions
- Data sheets for ball valves
- Installation instructions for actuators and/or ball valves
- Notes for project planning (hydraulic characteristic curves and circuits, installation regulations, commissioning, maintenance etc.)



