

Rotary actuator for 2 and 3-way ball valves

- · Torque 2 Nm
- · Nominal voltage AC 230 V
- · Control: Open/close or 3-point



Technical data						
Electrical data	Nominal voltage	AC 230 V, 50 Hz				
	Power supply range	AC 207 253 V				
	Power consumption In operation	1 W at nominal torque				
	For wire sizing	1 VA				
	Connection	Cable 1 m, 3 x 0.75 mm ²				
	Parallel connection	No				
Functional data	Torque (nominal torque)	Min. 2 Nm at nominal voltage				
	Manual override	Temporary disengagement of gearing latch				
	Running time	105 s / 90° <				
	Noise level	Max. 35 dB (A)				
	Position indication	Mechanical				
Safety	Protection class	II Totally insulated IP40 CE according to 89/336/EEC CE according to 73/23/EEC				
	Degree of protection					
	EMC					
	Low voltage directive					
	Mode of operation	Typ 1 (to EN 60730-1)				
	Rated impulse voltage	4 kV (to EN 60730-1)				
	Control pollution degree	3 (to EN 60730-1)				
	Ambient temperature range	−7 +50°C				
	Media temperature	+5 +100°C (in ball valve)				
	Non-operating temperature	–40 +80°C				
	Ambient humidity range	95% r.H., non-condensating (to EN 60730-1)				
	Maintenance	Maintenance-free				
Dimensions / Weight	Dimensions	See «Dimensions» on page 2				
	Weight Approx. 400 g (without ball valve)					

Safety notes



- The 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 actuator must be protected against moistness. It is not suitable for use in outdoor applications.
- · Check that the strain relief of the cable in the actuator housing functions correctly.
- The installer has to check the right functioning after mounting.
- 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 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.



Product features

Straightforward direct mounting on the ball valve with only one screw. The mounting position in Simple direct mounting

Manual operation Manual operation possible by lever (the gearing latch remains disengaged as long as the self-

resetting lever is pressed).

High functional reliability The actuator switches off automatically when the end stops are reached.

Pulse duration ≥ 0.5 s

Combination valve actuators Refer to the valve documentation for suitable valves, their permitted media temperatures and

closing pressures.

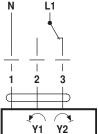
Electrical installation

Caution: Power supply voltage!

Note

Wiring diagrams

Open-close control

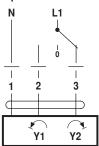


Cable colours:

1 = blue 2 = brown 3 = white

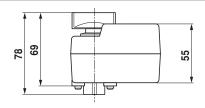
Rota	ary actuator	Rotary valve				
Y2	→	A – AB = 0%				

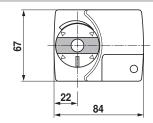
3-point control



Electrical installation

Dimensional diagrams

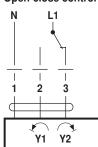




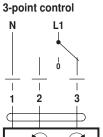
Electrical installation

Wiring diagrams Open-close control



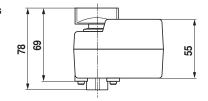


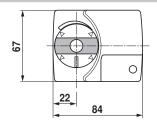
Rota	ary actuator	Rotary valve				
Y2	7	A – AB = 0%				



Electrical installation

Dimensional diagrams

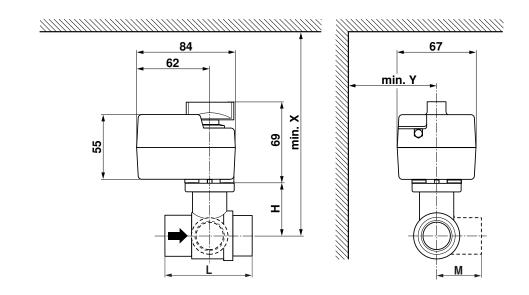


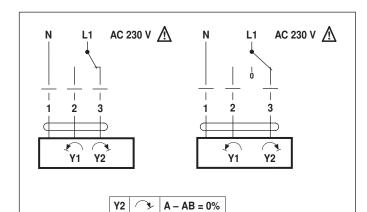


Further documentations

- · 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.)







	\rightarrow	DN		Rp	G	PN	mm						
										TRD230-3		TR230-3	
		mm	"	"	"		L	Н	М	Х	Υ	Х	Υ
R2K	R3K	10	3/8	3/8			52	35	28	174	75		
R4K	R5K	10	3/8		3/4		69	31.5	34	171	75		
R2	R3	15	1/2	1/2			67	45	39			184	75
R4	R5	15	1/2		1		74	44	38			183	75
R6R	R7R	15	1/2			6	101.5	45	73			184	80

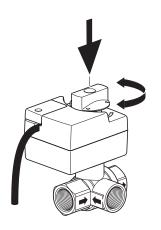


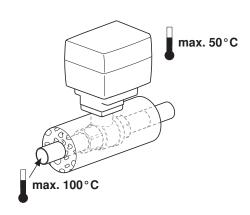
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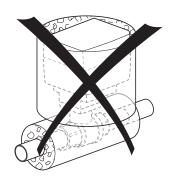
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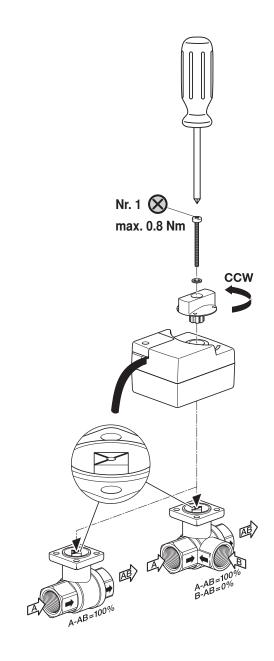
AC 230 V

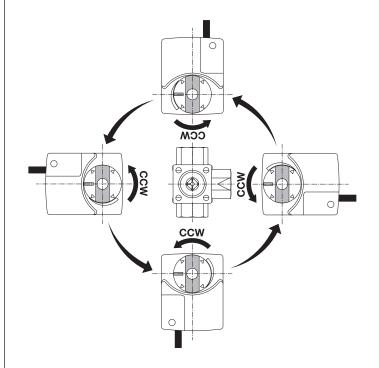


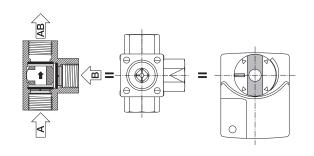














AC 230 V



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