

Technical data sheet

Rotary actuator for 2 and 3-way ball valves

Torque 2 Nm

Technical data

- Nominal voltage AC/DC 24 V
- Control: modulating DC 0 ... 10 V, position feedback DC 2 ... 10 V



Electrical data	Nominal voltage	AC 24 V, 50/60 Hz DC 24 V					
	Power supply range	AC 19.2 28.8 V DC 21.6 28.8 V					
	Power consumption In operation For wire sizing	0.5 W at nominal torque 1 VA					
	Connection	Cable 1 m, 3 x 0.75 mm ²					
	Parallel connection	Yes (Note performance data for supply!)					
Funktionsdaten	Torque (nominal torque)	Min. 2 Nm at nominal voltage					
	Control Control signal Y Working range	DC 0 10 V, typical input impedance 100 k Ω DC 2 10 V					
	Manual override	Temporary disengagement of gearing latch					
	Running time	90 s / 90° ∢					
	Noise level	Max. 35 dB (A)					
	Position indication	Mechanical					
Safety	Protection class	III Extra low voltage					
	Degree of protection	IP40					
	EMC	CE according to 89/336/EEC					
	Mode of operation	Type 1 (to EN 60730-1)					
	Rated impulse voltage	0.8 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.

• It may only be installed by suitably trained personnel.

All applicable legal or institutional installation regulations must be complied with.

- 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.
- The switch for changing the direction of rotation may only be operated by trained personnel. The direction of rotation may not be reversed in a frost protection circuit.

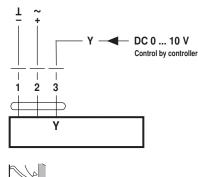


Product features						
Mode of operation	The actuator is controlled by means of a standard control signal DC 0 \dots 10 V. It opens to the position dictated by this signal.					
Simple direct mounting	Straightforward direct mounting on the ball valve with only one screw. The mounting position in relation to the ball valve can be selected in 90°⊲ steps.					
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 is overload-proof and automatically stops when the end stop is reached.					
Combination valve actuators	Refer to the valve documentation for suitable valves, their permitted media temperatures and closing pressures.					

Electrical installation

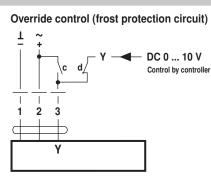
Wiring diagrams Standard

- Notes
- Connect via safety isolation transformer.
- Parallel connection of other actuators possible. Note performance data for supply.



Direction of rotation R (standard) when switch set to right position

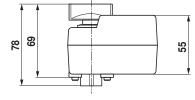
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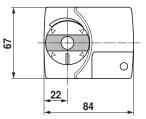


С	d	Rotary actuator	Rotary valve
×	/-	1	A – AB = 100%
/-	/-	\frown	A – AB = 0%

Dimensions [mm]

Dimensional diagrams



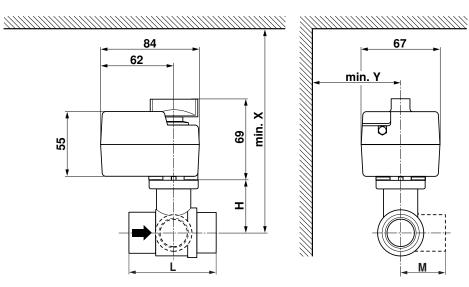


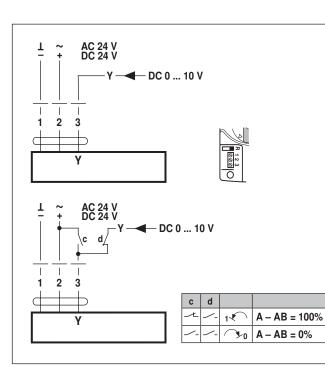
Further documentations
 • Complete overview of actuators for water solutions

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









		DN		Rp	G	PN	mm						
										TRD24-SR(-T)		TR24-SR(-T)	
		mm	"	"	"		L	Н	М	Х	Y	Х	Y
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

