

Open-close rotary actuator with emergency control function for 2- and 3-way ball valves

- · Torque 2 Nm
- Nominal voltage AC 100 ... 240 V
- · Control: Open-close



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UVerv	MAIN	nτ	TVDES

Туре	Direction of rotation
TRF230	Deenergised NC, ball valve closed (A – AB = 0%)
TRF230-O	Deenergised NO, ball valve open (A – AB = 100%)

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Nominal voltage	AC 100 240 V, 50/60 Hz			
Nominal voltage range	AC 85 265 V			
Power consumption Spring-return	2.5 W @ nominal torque			
Holding position	1.5 W			
For wire sizing	5 VA			
Connection	Cable 1 m, 2 x 0.75 mm ²			
Parallel connection	Yes (note performance data for supply!)			
Torque (nominal torque) Motor	Min. 2 Nm @ nominal voltage			
Spring-return	Min. 2 Nm			
Direction of rotation	see «Overview of types»			
Manual override	No			
Angle of rotation	Max. 95° <i><</i>			
Dunning time Meter	-7F o (0 0 Nm)			

Functional data

110
Max. 95° <i><</i>
<75 s (0 2 Nm)
75 s
Max. 50 dB (A)
~43 dB (A)
Min. 60'000 emergency settings
Mechanical
II Totally insulated □
IP42 in any mounting position
CE according to 2004/108/EC
CE according to 2006/95/EC
Type 1 (EN 60730-1)
4 kV (EN 60730-1)
3 (EN 60730-1)
−30 +50°C
+5 +100°C (in ball valve)
−40 +80°C
95% r.H., non-condensating (EN 60730-1)
Maintenance-free
See «Dimensions» on page 2

Safety

Dimensions / Weight

Safety notes



Weight

 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.

Approx. 600 g (without ball valve)

- Caution: Power supply voltage!
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- 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.

Rotary actuator with emergency control function, AC 230 V, 2 Nm $\,$



Product features

Mode of operation The actuator moves the ball valve to the operating position at the same time as tensioning the

return spring. The ball valve is turned back to the safety position by spring force if the supply

voltage is interrupted.

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

High functional reliability The actuator is overload-proof, requires no limit switches 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.

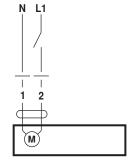
Electrical installation

Wiring diagram

Note

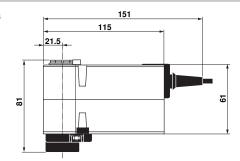
• Caution: Power supply voltage !

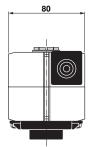
Other actuators can be connected in parallel.
 Note performance data for supply.



Dimensions [mm]

Dimensional drawings

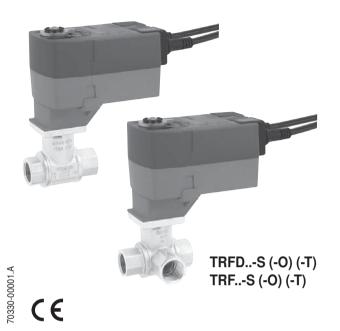


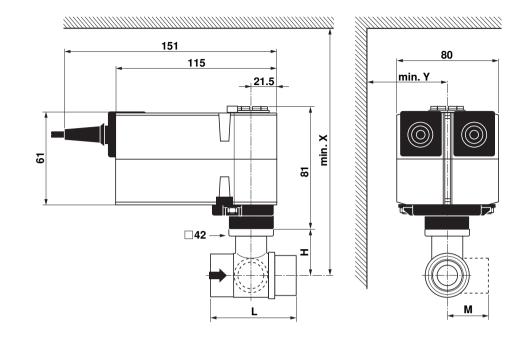


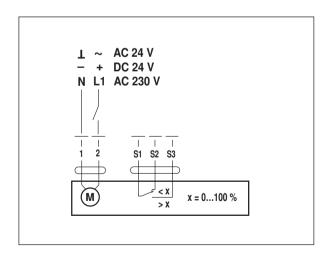
Further documentations

- · Complete overview «The complete range of water solutions»
- · Data sheets for ball valves
- Installation instructions for actuators resp. ball valves
- Notes for project planning (hydraulic characteristic curves and circuits, installation regulations, commissioning, maintenance etc.)









		DN		Rp	G	PN	mm						
										TRFD	S(-O)(-T)	TRFS	G(-O)(-T)
		mm	"	"	"		L	Н	М	Х	Υ	Χ	Υ
R2K	R3K	10	3/8	3/8			52	35	28	180	80		
R4K	R5K	10	3/8		3/4		69	31.5	34	180	80		
R2	R3	15	1/2	1/2			67	45	39			190	80
R4	R5	15	1/2		1		74	44	38			190	80
R6R	R7R	15	1/2			6	101.5	45	73			190	80

