

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

- Torque 15 Nm
- · Nominal voltage AC 230 V
- · Control: Open-close
- · Auxiliary switch
- ARF230-S: Deenergised NC ARF230-S-O: Deenergised NO



ARF230-5-O: Deenergised NO					
Technical data					
Electrical data	Nominal voltage	AC 230 V, 50/60 Hz			
	Power supply range	AC 198 264 V			
	Power consumption Spring return	6.5 W at nominal torque			
	Holding position	2.5 W			
	For wire sizing	11 VA			
	Auxiliary switch	2 x SPDT, 6 (3) A, AC 250 V II 🗆			
		Switching points: 10% < fixed, 28 94% < adjustable			
	Connection Motor	Cable 1 m, 2 x 0.75 mm ² Cable 1 m, 6 x 0.75 mm ²			
	Auxiliary switch Parallel connection	Yes (Note the performance data supply!)			
Functional data	Torque (nominal torque) Motor Spring return	Min. 15 Nm at nominal voltage Min. 15 Nm			
	Direction of rotation ARF230-S	Deenergised NC, ball valve closed (A – AB = 0%)			
	ARF230-S-O	Deenergised NO, ball valve open (A – AB = 100%)			
	Manual override	With hand crank, can be fixed in any position			
	Angle of rotation	95°⊲			
	Running time Motor	150 s			
	Spring return	~16 s at -20 50°C / max. 60 s at -30°C			
	Noise level Motor	Max. 45 dB (A)			
	Spring return	~62 dB (A)			
	Service life	Min. 60'000 emergency settings			
	Position indication	Mechanical			
Safety	Protection class	II Totally insulated □			
	Degree of protection	IP54			
	EMC	CE according to 89/336/EEC			
	Low voltage directive Mode of operation	CE according to 73/23/EEC Type 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	-30 +50 °C +5 +100 °C (in ball valve)			
	Media temperature				
	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			
5	Weight	Approx. 3.0 kg (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 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.

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Product features

Mode of operation The actuator moves the damper to its normal working position while tensioning the return spring

at the same time. If the power supply is interrupted, the energy stored in the spring moves the

damper back to its safe position.

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 override The ball valve can be manually operated and fixed in any position using a hand crank. Unlocking

is manual or automatic by applying the operating voltage.

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

stop is reached.

Signalling The actuator has one adjustable auxiliary switch and one auxiliary switch with a fixed setting.

This means angles of rotation of 10% *⇒* or 28 ... 94% *⇒* can be signalled.

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

closing pressures.

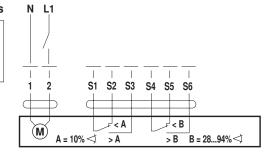
Electrical installation

Wiring diagrams

Note

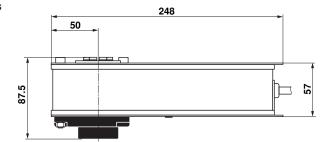
· Caution: Power supply voltage!

• Parallel connection of other actuators possible. Note the performance data supply.



Dimensions [mm]

Dimensional diagrams

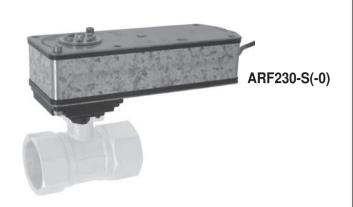




Further documentations

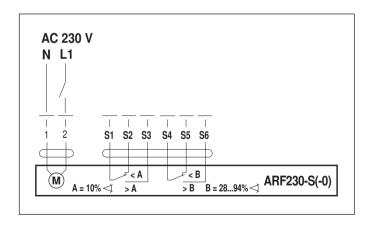
- · Complete overview of actuators for water solutions
- Data sheets for ball valves
- Installation instructions for actuators and/or ball valves
- Notes for project planning (hydraulic characteristic curves and circuits, installation regulations, commissioning, maintenance etc.)

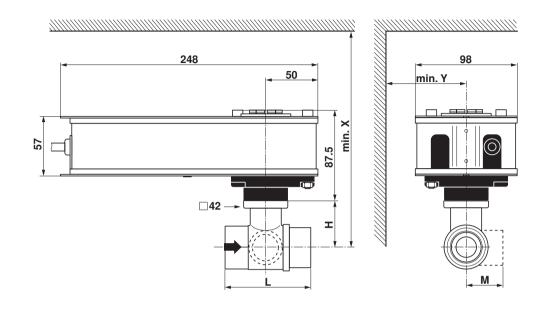




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	DN		D., C	_		mm				
	mm	"	np	Rp G		L	Н	M	Χ	Υ
R2 / R3	15	1/2	1/2"			67	45	39	203	90
R4 / R5				1"		74	44	38	202	90
R6R / R7R					PN6	101.5	45	73	203	90
R2 / R3	20	3/4	3/4"			78	47.5	41.5	205	90
R4 / R5				1 1/4"		85.5	46	42.5	204	90
R6R / R7R					PN6	112	47.5	79	205	90
R2 / R3	25	1	1"			87	47.5	45	205	90
R4 / R5				1 1/2"		84.5	46	47.5	204	90
R6R / R7R					PN6	132	47.5	92	205	90
R2 / R3	32	1 1/4	1 1/4"			105	52	55.5	210	90
R4 / R5				2		102	50.5	56	208	90
R6R / R7R					PN6	143.5	52	102.5	210	100
R2 / R3	40	1 1/2	1 1/2"			111	52	56	210	90
R4 / R5				2 1/4		103	50.5	60.5	208	90
R6R / R7R					PN6	149.5	52	105	210	105
R2 / R3			1 3/4"			125	58	68	210	90
R4 / R5	50	2		2 3/4		115.5	56	71.5	214	90
R6R / R7R					PN6	165	58	121	216	110
R6R	65	2 1/2			PN6	180.5	69		227	120
	80	3			PN6	191.5	69		227	135

