



## Electrically operated quarter turn actuator

AOX-R series electrically operated quarter turn actuator is newly designed and developed for modulating and open-close duty in process technology. Driven by 380V/220V/110VAC or 24V/110VDC power, inputs 4-20mA or 0-10VDC control signal, moves valve to the right position, and achieves to automatic control, the maximum output torque is 5000Nm. AOX-R series electrically operated quarter turn actuator meets international standards and is designed with the aim of high reliability and long service life - trying to minimize maintenance requirements. AOX implementers guarantee safe and reliable services under various extreme environmental conditions.

Torque range: 30~5000N.m

Working time : S1 long time standard for both On-off and modulating type.

S2 standard, 30 min.

Ambient temperature: -20°C ~ +70°C

Type of On-off Signal: Contact signal. Pulse signal

Type of Modulating Signal: 0-10V, 2-10V, 4-20mA, etc.

1. Compact design: Small, light and compact design, high torque and various control option will meet your specific requirement.
2. External modulating module for AOX-R series electrically operated quarter turn actuator: Increase the space of the module, it will make the module more stable and have a longer service life.

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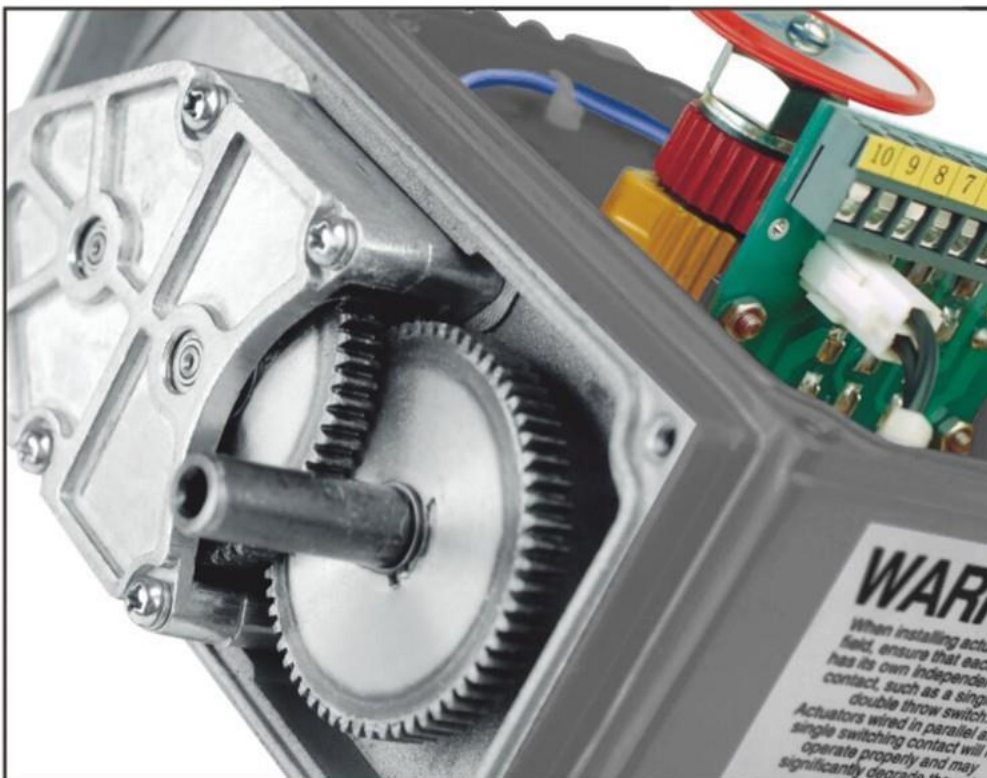
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3. Reliable gears: Gears of AOX-R series electrically operated quarter turn actuator are machined from special materials and are more solid and reliable.



## Performance Parameter

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Model	Max output torque	Operating Time 90°	Drive shaft(mm)		Power	Rated current (A)	Weight
	N M	( 90°)	Square	Deep	(W)	220VAC/1ph	(kg)
AOX-R-003	30	20	11×11	15.5	8	0.25	2.1
AOX-R-005	50	30	14×14	18	10	0.24	3.6
AOX-R-008	80	30	14×14	18	10	0.26	3.6
AOX-R-010	100	30	17×17	22.5	15	0.40	4.6
AOX-R-015	150	40	17×17	22.5	15	0.42	4.6
AOX-R-020	200	30	22×22	26	60	0.28	13
AOX-R-030	300	30	22×22	26	60	0.32	13.4
AOX-R-040	400	30	22×22	26	60	0.34	13.8
AOX-R-060	600	40	27×27	32.5	60	0.35	14
AOX-R-080	800	40	27×27	32.5	90	0.56	14.3
AOX-R-100	1000	40	27×27	32.5	90	0.59	14.5
AOX-R-160	1600	60	Max Φ40	65	90	0.60	68
AOX-R-200	2000	60	Max Φ40	65	90	0.62	68
AOX-R-300	3000	120	Max Φ40	65	90	0.64	68
AOX-R-400	4000	200	Max Φ40	65	90	0.66	68
AOX-R-500	5000	200	Max Φ40	65	90	0.67	68

## Standard Specification

Shell	Aluminum alloy Shell, Enclosure:IP67,IP68 is optional
Power	Standard:220VAC/1ph Optional:110VAC/1ph, 380V/440V/3ph,50/60Hz, ±10% 24VDC/110VDC/220VDC
Controlling power	110/220VAC/1ph, 50/60 Hz, ±10%
Motor	Squirrel-cage asynchronous motor
Limit switch	2×Open/ Close, SPDT,250VAC 10A

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Auxiliary limit switch	2×Open/ Close, SPDT,250VAC 10A	
Travel	90 °~270 °±10 °(Please specify in advance if over 90 °)	0 °~270 °
Fail safe/ Operating temperature	Internal-placed thermal protection, Open 120°C ±5°C/Close 97°C ±5°C	
Indicator	Continuous situation indication	
Manual operation	Mechanical handle (Handwheel is optional)	
Self-locking device	Self-locking by worm and worm gear	
Mechanical limit	2 x external adjustable stopper	
Space heater	30W (110/220VAC) Anti-condensation	
Conduit entries	2 Pieces M18*1.5 (AOX-R-003 except)	
Ambient temperature	-25°C~+70°C (-30°C、-40°C、-60°C optional)	
Lubrication	Grease moly (EP type)	
Material	Steel, Aluminum alloy, Aluminum bronze, Polycarbonate	
Ambient humidity	Max 90%RH	Non-Condensing
Anti-vibration	X Y Z 10g,0.2~34 Hz,30 minutes	
External coating	Dry powder, Epoxy polyester	

## Option Specification

No.	Option scheme	Remark
1	Heater	AOX-R Series
2	Water-proof actuator(IP68,10M,250HR)	AOX-R Series
3	Potionmeter unit(1k-10k)	Except AOX-R-003
4	Proportion control unit(Control signal 4-20mA DC/1-5V/10V)	AOX-R Series
5	Local control units (Local control open/stop/close optional switch, local/remote switch)	Except AOX-R-003
6	Travel 120 °, 180 °,270 °	AOX-R Series
7	Direct current motor(24VDC)	AOX-R Series

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8	Electric current position sensor (Output 4-20mA DC)	Except AOX-R-003
9	Self-reset when power failure	AOX-R Series
10	Quick opening(2.8s,5s,10s,15s)	AOX-R Series

## Manufacturing process



Our company has been engaged in the manufacture of electric actuators for more than 20 years. It has mature manufacturing technology and perfect production equipment, with an annual production capacity of 60,000 AOX-R series electrically operated quarter turn actuator. The main processing equipment includes machining center, CNC lathe, CNC milling machine, CNC drilling machine, CNC drilling machine, More than 300 sets of equipment, equipment are purchased from well-known domestic companies, high production efficiency, high processing accuracy.

## Our Patents

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We have more than 100 invention patents, utility model patents and design patents.



We value domestically developed products, respect intellectual property, AOX team totally received 98 utility patents, and we will keep on innovating and carry out supreme quality standard for our AOX-R series electrically operated quarter turn actuator.

## Transportation

Package : Plywood case or carton packaging

Shipping: 15 days after payment



## FAQ

Q: I want to buy about 100 pieces AOX-R series electrically operated quarter turn actuator, but first I want to try one. What do you think of my request?

A: Welcome sample order. No need to worry about the small quantity.

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Q: Do you give any discount for AOX-R series electrically operated quarter turn actuator?

A:I'll surely try my best to help you get those by the best price and good service at the same time.

Q: what effort do you make to ensure that the goods are delivered to the right person?

A:Sure I will ship it to the right person on condition you let us know your exact address. The DHL shipper will call the receiver when it arrives at your city.

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