



## Explosion proof quarter turn electric actuator

AOX-Q series explosion proof quarter turn electric actuator is specially designed for quarter turn operating applications such as ball, butterfly, plug valves and similar usages. 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 of AOX-Q series explosion proof quarter turn electric actuator is 6000Nm. Based on technical theory and rich experience, AOX company's unique technical know-how is the basic driving force for all product development and scientific production. AOX company is growing into a leading company in valve automation industry with advanced technology.

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Torque range: 50~6000N.m

Ambient temperature: -20°C~+70°C (-40°C -60°C is optional)

Protection: IP67, (IP68 optional) Exd II CT5

Single phase: AC220V / AC110V / AC24V / DC24V

Material of Actuator Body: Aluminium Alloy

Manual Override: Yes

1. Various output torque from 50Nm to 6000Nm.
  2. Shell: Hard anodized Aluminum casting and external epoxy powder coated against severe industrial environment.
  3. Worm gear: Precisely machined double worm gear, low noise, high output torque.
  4. Removable drive bushing for AOX-Q series explosion proof quarter turn electric actuator
- Easy mounting base standard to ISO5211.

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- Bushings can be processed according to different requirements, four hanging ears made a close fit with shaft and sleeve.



### Performance Parameter

Model	Max Output Torque	60/50Hz Operating Time	Max Drive Shaft Size	Power	Rated Current (A)				Hand wheel Revolution	Weight
					single phase		three phases			
					110V	220V	380V	440V		
AOX-Q-005	50	18/22	Φ20	20	1.10/0.95	0.55/0.54	0.3/0.3	N/A	10	7.5
AOX-Q-008	80	18/22	Φ20	20	1.10/0.95	0.55/0.54	0.3/0.3	N/A	10	7.5
AOX-Q-010	100	18/22	Φ20	20	1.10/0.95	0.55/0.54	0.3/0.3	N/A	10	7.5
AOX-Q-011	150	21/25	Φ20	40	1.65/1.6	0.88/0.8	0.31/0.3	0.30/0.3	11	17.3

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AOX-Q-020	200	21/25	Φ20	40	1.67/1.67	0.89/0.85	0.31/0.31	0.30/0.31	11	17.3
AOX-Q-030	300	26/31	Φ32	90	1.85/1.86	0.92/0.92	0.35/0.35	0.34/0.34	13.5	22
AOX-Q-050	500	26/31	Φ32	120	3.60/3.62	1.55/1.58	0.59/0.59	0.58/0.58	13.5	23
AOX-Q-060	600	26/31	Φ32	120	3.65/3.62	1.60/2.20	0.60/0.59	0.59/0.58	13.5	23
AOX-Q-080	800	31/37	Φ40	180	4.10/4.10	2.15/2.20	0.85/0.85	0.79/0.79	16.5	29
AOX-Q-120	1200	31/37	Φ40	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	16.5	29
AOX-Q-150	1500	78/93	Φ40	120	3.65/3.62	1.60/2.20	0.60/0.59	0.59/0.58	40.5	77
AOX-Q-200	2000	93/112	Φ40	180	4.10/4.10	2.15/2.20	0.85/0.85	0.79/0.79	49.5	83
AOX-Q-300	3000	93/112	Φ40	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	49.5	83
AOX-Q-400	4000	155/185	Φ40	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	82.5	83
AOX-Q-500	5000	155/185	Φ40	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	82.5	83
AOX-Q-600	6000	155/185	Φ40	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	82.5	83

### Standard Specification

Shell	Enclosure :IP67,NEMA4, Exd II CT5
Power	Standard:220VAC/1ph

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	Optional:110VAC/1ph, 380V/440V/3ph,50/60Hz, ±10%	
	24VDC/110VDC/220VDC	
Motor	Asynchronous motor	
Limit switch	2×Open/ Close, SPDT,250VAC 10A	
Auxiliary limit switch	2×Open/ Close, SPDT,250VAC 10A	
Torque switch	Close/Open, each 1, SPDT,250VAC 10A	Except AOX-Q-005/008/010
Travel	90 °±10 °	0 °~270 °
Fail safe/ Operating temperature	Internal-placed thermal protection, Open 120°C ±5°C/Close 97°C ±5°C	
Indicator	Continuous position indicator	
Manual operate	Declutching mechanism, operate by handwheel	
Self-locking device	Self-locking by worm and worm gear	
Mechanical limit	2 × external adjustable stopper	
Space heater	30W(110V/220VAC)	
Conduit entry	2 × PT 3/4"	
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, high anti-corrosion	

### Option Specification

No.	Option scheme
1	Explosion-proof actuator (Exd II CT5)
2	Potentiometer unit (1K-10K)
3	Proportion control unit (control signal 4-20mA DC/1-5V/1-10V)
4	Local control units (local control open/stop/close optional switch, local/remote switch)
5	Travel 120 °, 180 °, 270 °

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6	Direct current motor(24VDC)
7	Water-proof actuator (IP68,10M,250HR)
8	Reverse electromagnetic control and transmission integrated motor starter
9	Torque switch (SPDT×2 250VAC 10A)
10	Electric current position sensor (output 4-20mA DC)
11	High temperature resistance actuator (-10℃~+100℃)
12	Low temperature resistance actuator (-60℃~+30℃)
13	Low speed actuator
14	Bus-control unit

## About AOX

Zhejiang Aoxiang Automation Technology Co., Ltd. (formerly known as Rui'an Changhong Automation Instrument Co., Ltd.) was founded on April 7, 1997. Later, it was changed to Zhejiang Aoxiang Automation Technology Co., Ltd. due to the registered capital of the merger application. The company is located at No. 2608, Development road, Economic Development Zone, Ruian City. It covers an area of 12,300 square meters, with a construction area of 16,200 square meters. The production plant area is 12,600 square meters. It is only 20 kilometers away from Wenzhou Airport and Wenzhou Railway Station. The traffic is convenient. The company is a high-tech enterprise specializing in the production of electric actuators for nearly 20 years, integrating design, research and development, production, sales, after-sales service and training. The annual production capacity is more than 60,000 units. The products are widely used in petroleum and chemical industry, water treatment, shipbuilding, paper, power stations, light industry and other fields. If you are interested in our small quarter turn electric electric actuator, welcome to contact us by Email-zjaox09@zjaox.com.

## Our company

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## 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 electric actuators. The main processing equipment includes machining center, CNC lathe, CNC milling machine, CNC drilling machine, CNC drilling

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machine, plasma spray welding equipment, spray drying line and other equipment, milling, boring, drilling, throwing, grinding and other types of machine tools More than 300 sets of equipment, equipment are purchased from well-known domestic companies, high production efficiency, high processing accuracy.

## Our Patents



Our company invested a large amount of funds in technology development for technology research and development and new product development. There are 89 patents in total, including 3 invention patents, 27 utility model patents, 49 design patents, and 4 invention patents. 2 utility model patents.

## Our Certificate

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Our company has obtained various domestic and foreign certifications such as ISO9001, ISO14001, CE, ATEX, GOST, EAC, SIL3, IP68, CU-TR, explosion-proof, etc., which fully demonstrates that our products fully comply with international standards, and the quality of products is guaranteed.

## Transportation

Package : Plywood case or carton packaging

Shipping: 15 days after payment



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## FAQ

Q:How's the warranty period for your actuator?

A:We offer one year warranty for our small quarter turn electric actuator.

Q: About the sample what is the cost of transportation?

A :The freight depends on weight, packding size and your country or province region, etc.

Q:How long can I expect to get the sample?

A :If you want to order the sample of small quarter turn electric actuator,the samples will be ready for delivery in 3-5 days The samples will be sent va international express such as DHL ,UPS ,TNT, FEDEX and would be arrived within 3-5 days

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