



Quarter turn actuator with torque switch

Quarter turn actuator with torque switch, AOX-Q series quarter turn electric actuator with torque switch is suitable for quarter-turn applications - designed for valves, dampers and automation of rotary machines and produce torque range of 50Nm to 6000Nm. The AOX-Q series quarter turn electric actuator with torque switch are suitable for a wide range of harsh industrial applications, with high positioning accuracy and compact construction. AOX attaches great importance to corporate social responsibility. We continue to seek opportunities for progress, sharing and development with our partners and customers. In addition, all our services are handled through customer-centric management, giving the greatest priority to customer satisfaction.

Quarter turn actuator with torque switch

Torque range: 50~6000N.m

Control method: On and off / modulating type/ Intelligent type

Protection: IP67, (IP68 optional) Exd II CT5

Manual Override: Yes

Torque switch: Close/Open, each 1

Mounting Flange (ISO 5211) : F05/F07/F10/F12/F14/F16

Output signal(On-off type): Fully open & fully close passive contact(2A 250VAC).

1. Various output torque from 50Nm to 6000Nm.
2. Self locking: AOX-Q series quarter turn electric actuator with torque switch provided by double worm gearing to keep position of valve unchanged against reverse torque from valve.
3. Sealing: By O-ring in all interfaces IP67(standard), and double o-ring for IP68 (option).
4. Torque switches (except for AOX-Q-005/008/010)
 - Protect actuator from damage caused by overload from the driven valve over the whole travel.

Add: No.2608 Development Zone Road, Economic Development Zone, Ruian Zhejiang China 325200

Tel: [+86-577-59890750](tel:+86-577-59890750)

E-mail: zjax@zjax.com

Mob: [+86-18967766527](tel:+86-18967766527)



- Once the torque switching acts, the AOX-Q series quarter turn electric actuator with torque switch will be stopped immediately.



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-015	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

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	

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

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.

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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 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,

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equipment are purchased from well-known domestic companies, high production efficiency, high processing accuracy.



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.



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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.



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, packing 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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