



## 1/4 turn electric actuator with torque switch



1/4 turn electric actuator with torque switch is specially designed for valves, dampers and automation of rotary machines and produce torque range of 50Nm to 6000Nm. AOX has its own factory. AOX's innovative product design concepts and products in practical applications have received much attention and recognition. 1/4 turn electric actuator with torque

switch are reliable, safe and convenient, with the advantages of compatibility and practicability.





## 1/4 turn electric actuator with torque switch Introduction

1/4 turn electric actuator with torque switch is specially designed for quarter turn operating applications such as ball, butterfly, plug valves and similar usages. AOX, founded in 1997, is a leading manufacturer of electric actuators in China. We provide the best quality products with high technology, high performance and satisfactory service. We have durable, dependable, and powerful 1/4 turn electric actuator with torque switch with several standard features and special options. We hope to cooperate with your company in the near future.

Zhejiang Aoxiang Auto-Control Technology CO.,Ltd

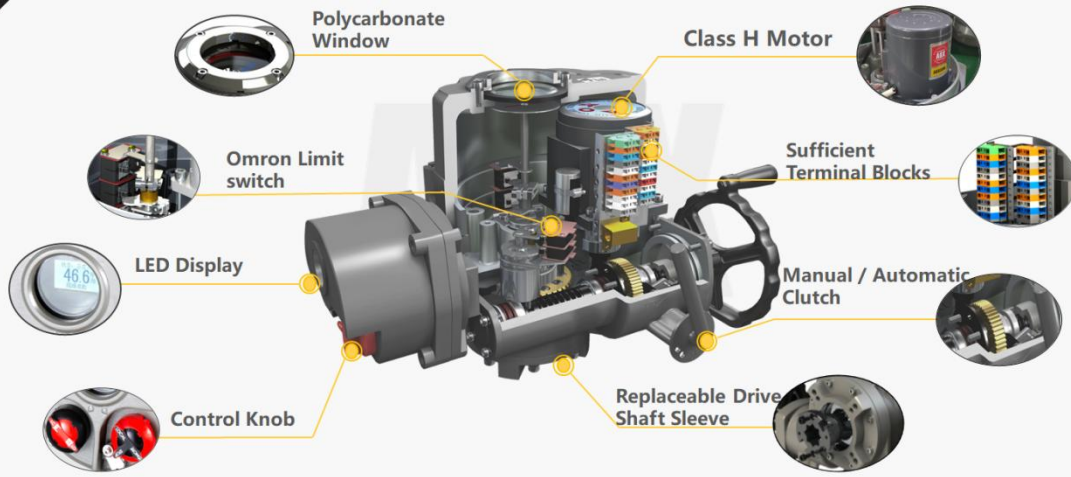
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## Structural Features



## Product Images





## 1/4 turn electric actuator with torque switch Parameter (Specification)

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Model	Max Output Torque N·M	60/50Hz Operating Time 90°	Max Drive Shaft Size mm	Power W	Rated Current (A)				Hand wheel Revolution N	Weight Kg
					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	1.65/1.67	0.88/0.84	0.31/0.31	0.30/0.31	11	17.3
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

## 1/4 turn electric actuator with torque switch Feature And Application

Torque range: 30~5000N.m

Protection: IP67, (IP68 optional)

Voltage: AC110~265V , AC / DC 24V Multi voltage input

Single phase: AC220V / AC110V / AC24V / DC24V

Manual Override: N/A

Mounting Flange (ISO 5211): F04/F05/F07/F10/F12/F14/F16

Local Control Unit: Local control knob of open/close/stop, switch knob of close control remote control/Bus control(non-intrusive)

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## Comparison With Other Products (Eight Major Improvements)

Other manufacturers	Description	Other manufacturers	Description
	The gasket is easily deformed by temperature and other reasons, resulting in reduced sealing performance, which is not very aesthetically pleasing.		The combination of upper and lower cover adopts concave and convex structure, inner gasket O-ring, strong sealing performance, beautiful appearance, high protection level, more convenient for debugging and wiring, only need to open the upper cover
	The use of chemical adhesives may lead to ageing and water ingress due to high temperatures and pressures on site, and the plastic and glazing are easily damaged.		Convex mirror surface, no water accumulation; and continuous valve opening indication, more convenient observation, external metal, not easy to damage
	Ordinary terminal blocks, in the field of temperature difference or vibration, will cause the fastening screws to loosen, resulting in poor contact phenomenon.		The use of self-actuating pop-up terminals guarantees absolute reliability and is a symbol of high-end products.
	The gearboxes are made of plastic, and individual manufacturers use powder alloys for the gears, which are prone to wear.		The gearbox is made of 40Cr, refined by three heat treatments, more solid and reliable

Patent No.: ZL 2013 3 0145624.9  
ZL 2013 3 0145691.0  
ZL 2013 3 0112341.4  
ZL 2013 3 0112302.4



## Comparison With Other Products (Eight Major Improvements)

	Spanner not fixed to the case, easily lost		The spanner is placed on the box, so it is not easily lost on site and is easy to use
	Regulated modules have built-in, electronic components that are affected by the temperature generated during operation.		The adjustment module is mounted externally and the bare board dissipates heat better, solving the contradiction that the maximum temperature of the actuator is 120° C while the temperature of the electronic components of the module is only 85° C. The weak control power supply is used and the quality of the module will not be affected by the unstable voltage on site.
	The screws of other manufacturers' housings are not equipped with an anti-dislodgement function, which can easily lead to the dislodgement of the screws during maintenance when removing the housing at height.		The top cover bolts are specially designed not to come off during maintenance and installation. All external bolts are made of stainless steel and will not rust
	Other manufacturers use M3 screws for unrealistic positioning, inaccurate, slippery threads, M3 spanners are not easy to find on site and other drawbacks.		AOX has improved the electrical cam structure by integrating the four cams into two and isolating them with a butterfly shaped bullet, topped with an anti-loosening nut, and using imported Omron travel switches.

Patent No.: ZL 2013 3 0111005.8  
ZL 2013 3 0111120.5  
ZL 2013 3 0111352.0



## 1/4 turn electric actuator with torque switch Details

1. Wide range of voltage available for 1/4 turn electric actuator with torque switch.
2. Shell: Hard anodized Aluminum casting and external epoxy powder coated against severe industrial environment.

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3. Captive cover bolts for 1/4 turn electric actuator with torque switch

- Designed to prevent losing it during maintenance or installation.
- All external bolts are stainless steel for rust prevention.

4. Multi control mode

End user can send open, close, stop, or proportional control signals through distributed control system (DCS) or programmable logic controller (PLC) from a distance so as to open or close the valve to control flow. The operator can also open or close the valve through local control panel or infrared remote control which is convenient to the debugging and maintenance of the 1/4 turn electric actuator with torque switch.