



1/4 turn electric actuator with thermal protector



1/4 turn electric actuator with thermal protector are suitable for on-off small ball/plug valves and damper automation. The innovative product design concepts of 1/4 turn electric actuator with thermal protector in practical applications have gotten multiparty attention and recognition. AOX has its own factory. Choosing AOX is a professional choice. We will be happy to

provide you with quality products and efficient service.



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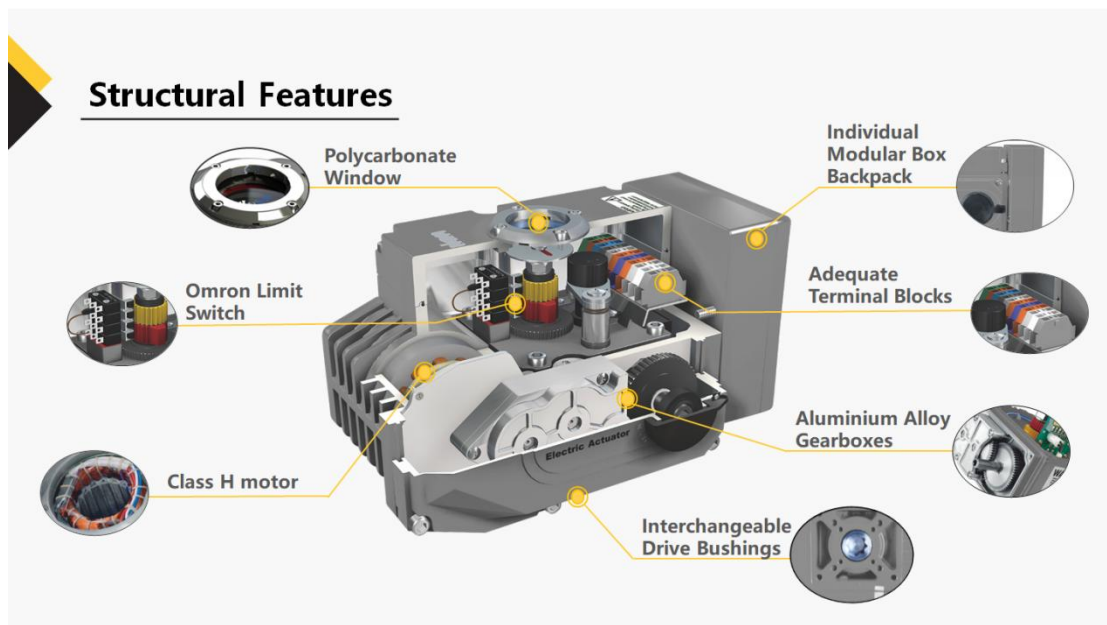
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1/4 turn electric actuator with thermal protector Introduction

1/4 turn electric actuator with thermal protector is newly designed to operate small size ball valve, butterfly valve, plug/damper valves and automation of rotary machines. The compact design of the small quarter turn electric actuator and the rugged, firm corrosion-resistant housing will be your best choice. AOX is a **supplier** to many large enterprises. AOX has 23 years of accumulation in the field of fluid control industry. We expect to cooperate with you in the near future.



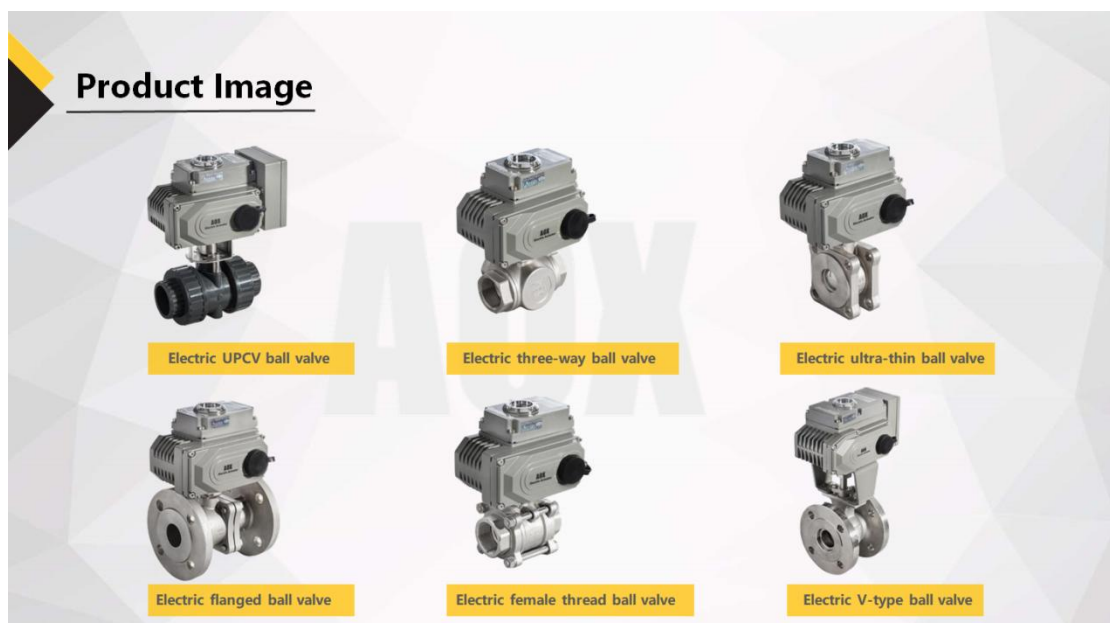
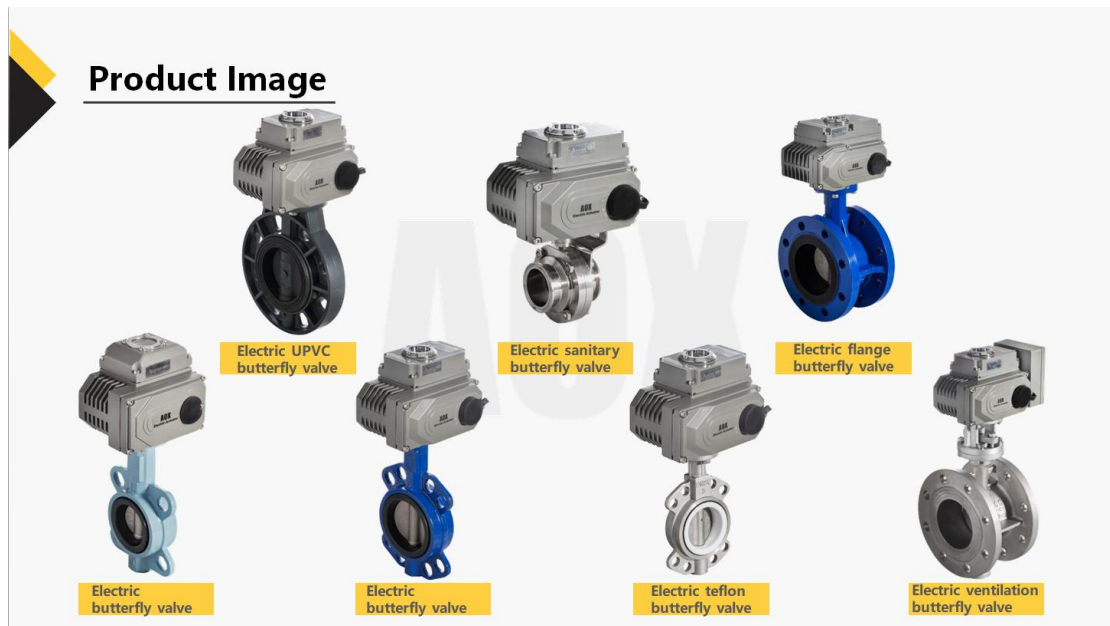
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1/4 turn electric actuator with thermal protector Parameter (Specification)

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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

1/4 turn electric actuator with thermal protector Feature And Application

Torque range: 30~5000N.m

Switching time: 20~200 S

Ambient temperature: -20°C~+70°C

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

Weight: 2.1 KGS~68 KGS

Protection: IP67, (IP68 optional)

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

Single phase: AC220V / AC110V / AC24V / DC24V

Applicable valve : Ball Valve (DN15-DN200); Butterfly Valve (DN25-DN400)

Material of Actuator Body: Aluminium Alloy

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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 55° 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 thermal protector Details

1. Compact design: Small, light and compact design, high torque and various control option will meet your specific requirement.
2. Firm corrosion-resistant housing: The shell is made of aluminum alloy, with anodic oxidation treatment and polyester powder coating. It is strong corrosion-resistant and enclosure Zhejiang Aoxiang Auto-Control Technology CO.,Ltd

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IP67,NEMA 4 and 6, IP68 is optional.

3. Wide torque range:The torque of AOX-R small quarter turn electric actuator is form 30Nm-5000Nm.

4. Circuit:Controlling circuit meets the single-phase or three-phase power supply standard, circuit layout is reasonable and compact, terminals meet various of additional functional requirements effectively.

Our advantage

Other



AOX



The shell of our actuator is hardened by high temperature, which makes the matrix more stable. After machining, the surface is oxidized and sprayed, and the surface has strong corrosion resistance. The AOX-R small quarter turn electric actuator is the upgraded appearance of our company, the appearance is more exquisite and practical.

Other



AOX



Our modulating module adopts external installation, and the bare board heats up better. AOX-R small quarter turn electric actuator solves the contradiction that the maximum temperature of the actuator is 120 °C and the electronic element temperature of the module is only 70 °C.

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