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Regulating type electric part turn motor actuator



Regulating type electric part turn motor actuator is suitable for quarter-turn applications - designed for valves, dampers and automation of rotary machines and produce torque range of 50Nm to 6000Nm. The regulating type electric part turn motor actuators are suitable for a wide range of harsh industrial applications, with high positioning accuracy and

compact construction. AOX is an electric actuator **manufacturer** from China. 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.



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Regulating type electric part turn motor actuator Introduction

Regulating type electric part turn motor 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 regulating type electric part turn motor actuator is 6000Nm. Based on technical theory and rich experience, AOX Zhejiang Aoxiang Auto-Control Technology CO.,Ltd

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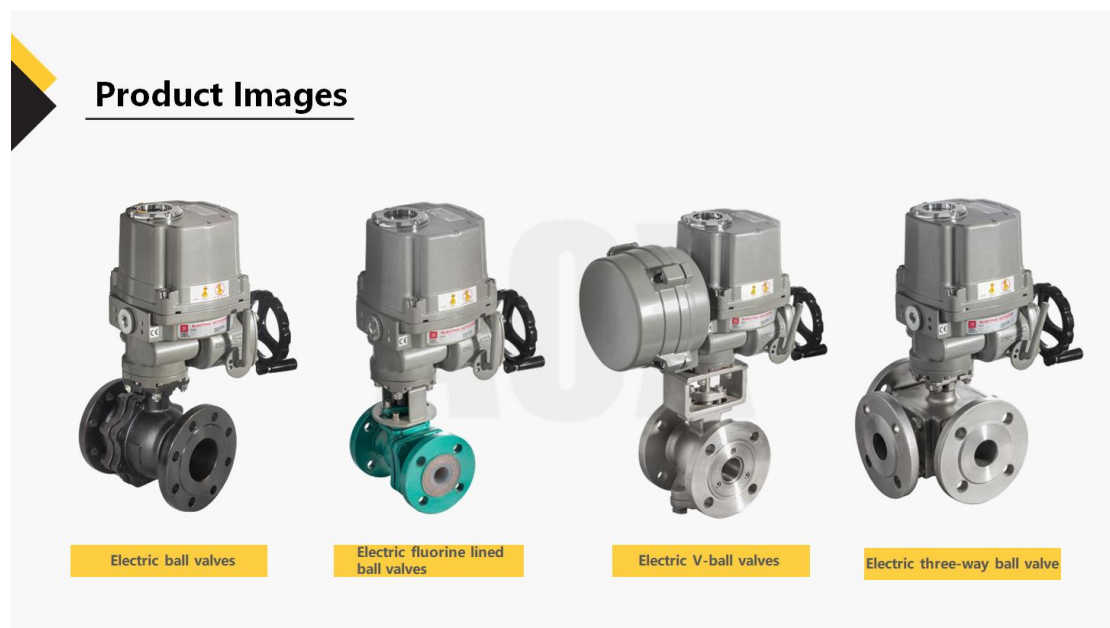
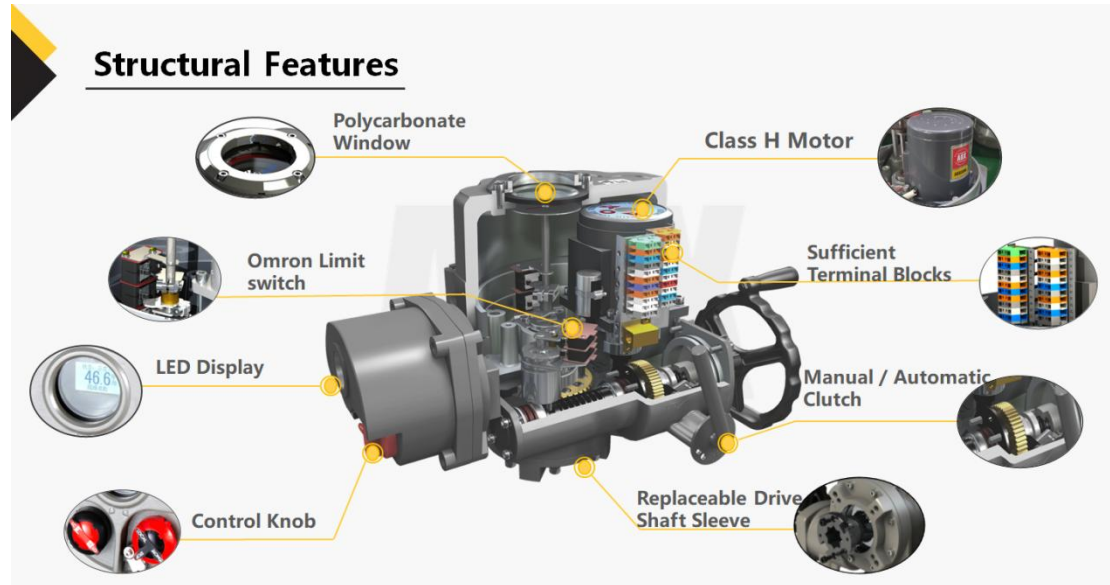
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company's unique technical know-how is the basic driving force for all product development and scientific production. AOX is a **supplier** to many large enterprises. AOX company is growing into a leading company in valve automation industry with advanced technology.



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Regulating type electric part turn motor actuator 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

Regulating type electric part turn motor actuator Feature And Application

Torque range: 50~6000N.m

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

Protection: IP67, (IP68 optional) Exd II CT5

Single phase: AC220V / AC110V / AC24V / DC24V

Material of Actuator Body: Aluminium Alloy

Manual Override: Yes

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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



Regulating type electric part turn motor actuator Details

1. Various output torque from 50Nm to 6000Nm.
2. Shell: Hard anodized Aluminum casting and external epoxy powder coated against severe industrial environment.

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



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