



Long Service Life Part Turn Electric Motor Operated Valve Actuator

"AOX-Q" series ball valve actuator is a newly designed long service life part turn electric motor operated valve actuator manufactured by AOX from China. The "AOX-Q" series is compact in structure, providing manual automatic clutch, excellent weather resistance and shock resistance. When the power is cut

off, the self-locking transmission mechanism ensures that the valve position remains unchanged. It is equipped with electrical and mechanical limits to prevent overtravel.

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Summary

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Product Introduction of the **long service life part turn electric motor operated valve actuator**

"AOX-Q" series **long service life part turn electric motor operated valve actuators** are widely used in oil, power station, heating, building automation, water treatment, and other industries. The "AOX-Q" series electric actuator adopts fully enclosed squirrel cage motor, which has the characteristics of small volume, large torque and small inertia force. The insulation level of the motor is class H and the built-in overheat protection switch can prevent the motor from being damaged by overheat.

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Product Parameter (Specification)of the long service life part turn electric motor operated valve actuator

Torque range:	50~6000N.m
Switching time:	22~185 S
Working time:	S1 long time standard for both On-off and modulating type; S2 standard, 30 min.
Material of Actuator Body:	Aluminium Alloy
Display Mode:	LCD, indication of opening(0-100%) and open/close fault
Control Mode:	On-off signal control, Modulating (proportional regulation) control, Fieldbus Control etc.

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Type of Modulating Signal:	0-10V, 2-10V, 4-20mA, etc.	
Power:	Standard:220VAC/1ph 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	

Model	Max Output	60/50Hz	Max Torque	Power	Rated Current (A)		Hand wheel	Weight
					single phase	three phases		

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Model	Output Torque	Operating Time	Drive Shaft Size	Voltage				Revolutions	Weight	
	N·M	90°	mm	W	110V	220V	380V	440V		N
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	1.65/0.67	0.88/0.84	0.31/0.31	0.30/0.31	11	17.3
AOX-Q-020	200	21/25	Φ20	40	1.67/0.67	0.89/0.85	0.31/0.31	0.30/0.31	11	17.3
AOX-Q-030	300	26/31	Φ32	90	1.85/0.86	0.92/0.92	0.35/0.35	0.34/0.34	13.5	22
AOX-Q-050	500	26/31	Φ32	120	3.60/0.62	1.55/0.58	0.59/0.59	0.58/0.58	13.5	23

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AOX-Q-060	600	26/31	Φ3 2	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	Φ4 0	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	Φ4 0	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	Φ4 0	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	Φ4 0	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	Φ4 0	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	Φ4 0	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	Φ4 0	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	Φ4 0	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	82.5	83



Product Feature And Application of the long service life part turn electric motor operated valve actuator

Other electric actuators

AOX-Q series



The adjustable module is installed externally, and the bare board has better heat dissipation, which solves the contradiction that the maximum temperature of the actuator is 120°C and the use temperature of the electronic component of the module is only 70°C; The weak current control power supply will not affect the quality of the module due to the unstable field voltage. The module is fixed to ensure stable performance under any high-intensity vibration condition. The regulating module is built-in, and the electronic components will be affected by the temperature generated during operation. The module is easy to burn and has poor heat dissipation performance. The module is not fixed, and it is easy to produce the false welding image of the original electrical components under the vibration of the site working condition, resulting in unstable performance.

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Production details of the long service life part turn electric motor operated valve actuator

Precautions for indoor installation on the installation site

If it is installed in a place with explosive gas, it is necessary to order explosion-proof actuators;—Please explain in advance if it is installed under water and outdoors;

Please reserve space for wiring, manual operation and maintenance;

Precautions for outdoor installation

In order to avoid rain, direct sunlight and other problems, it is necessary to install a protective cover; Or IP67 or above;

Please reserve space for wiring, manual operation and other maintenance;

Ambient temperature

the ambient temperature is within the range of - 25°C~ + 70°C;

When the ambient temperature is below 0°C, a dehumidification heater shall be installed in the machine;

when the ambient temperature is higher than 70°C, please contact the technical department of our company in advance to propose specific solutions.