



Explosion Proof Automation Part Turn Electric Actuator



Summary

"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.

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**

| 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. | 0.88/0.8 | 0.31/0. | 0.30/0. | 11 | 17.3 |

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|-----------|------|---------|-----|-----|-----------|-----------|-----------|-----------|------|------|
| | | | | | 67 | 4 | 31 | 31 | | |
| 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 |

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

Other electric actuators

AOX-Q series

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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.

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.

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