



## Exd Part Turn Electric Valve Actuator

"AOX-Q" series valve actuator is a newly designed Exd part turn electric valve actuator \ manufactured by AOX, a Chinese manufacturer. The "AOX-Q" series has been awarded the CCC, CCS, DNVGL and EU CE. The shell of "AOX-Q" series electric actuator is made of hard aluminum alloy, which is anodized and coated with polyester powder. It

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### Summary

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## Product Introduction of the Exd part turn electric valve actuator

"AOX-Q" series **Exd part turn electric valve actuators** are suitable for petroleum, chemical and other industries. The main operation requirements of AOX motor actuators are: before electric operation, first use manual operation method to check whether the opening meter and valve angle (fully open and fully closed) are consistent; secondly, check whether the wiring is correct; at the same time, use

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external switch to confirm the opening and closing action; finally, start electric operation after confirming the above status. As a special molybdenum based grease with long service life and good pressure resistance, no oil is required. Regular operation: when the action of the valve is very rare, the machine can be driven regularly to check whether there is any abnormality.



### Product Parameter ( Specification ) of the Exd part turn electric valve actuator

Torque range:	50~6000N.m
Switching time:	22~185 S
Working time:	S1 long time standard for both On-off and

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	modulating type; S2 standard, 30 min.
Indicator:	Continuous position indicator
Manual operate:	Declutching mechanism, operate by handwheel
Mechanical limit:	2 × external adjustable stopper
Space heater:	30W(110V/220VAC)
Conduit entry:	2 × PT 3/4"
Ambient temperature:	-25°C ~ +70°C (-30°C、-40°C、-60°C optional)
Material:	Steel, Aluminum alloy, Aluminum bronze, Polycarbonate
Anti-vibration:	X Y Z 10g, 0.2 ~ 34 Hz, 30 minutes
External coating:	Dry powder, Epoxy polyester, high anti-corrosion
Type of Modulating Signal:	0-10V, 2-10V, 4-20mA, etc.
Type of Field-bus Signal:	Modbus-RTU, Profibus-DP, etc.
Local Controller:	AOX remote control (Optional)

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

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	ut	Operati	Driv					Revoluti		
	Torq ue	ng Time	e Sha ft Size					on		
	N·M	90°	mm	W	110V	220V	380V	440V	N	Kg
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

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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

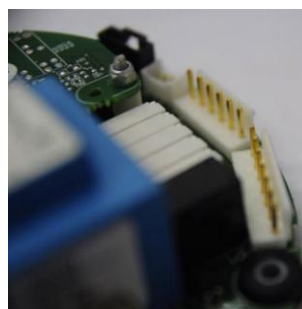


## Product Feature And Application of the Exd part turn electric valve actuator

Other electric actuators



AOX-R series



The stability, corrosion resistance and oxidation resistance of electric actuators from other factories are much worse than ours. AOX's "AOX-Q" series **Exd part turn electric valve actuator** can ensure the high stability, high conductivity, excellent corrosion resistance and oxidation resistance of the plug-in. It does not meet the explosion-proof standard of Exd II CT5, and has very strong use value as an explosion-proof actuator.

## Production details of the Exd part turn electric valve actuator

The electric actuator is mainly composed of the following parts:

1. Shell: including shell and base;
2. Driving part: the high-performance fully enclosed squirrel cage motor is used as the power source;
3. Transmission mechanism: double worm gear and clutch;
4. Proportional control part: it is separated from the mechanical part to facilitate debugging;

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5. Torque switch and limit switch;
6. Opening detection and feedback part.

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