



## Local control quarter turn electric actuator



AOX-Q series local control quarter turn electric actuator can be applied to the application required proportional control, and produce torque with range of 50N.m~6000N.m.AOX has 23 years of accumulation in the field of fluid control industry. According to the different inquiry of the market, we have developed a series of local control quarter turn electric actuator. And our good reputation is gained by the reliability and stability performance in the field of valve fluid control.Welcome to cooperate with you in the near future.

Torque range: 50~6000N.m

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

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

Related humidity: <90%(25℃).

Manual Override: Yes

Local Control Unit: Local control knob of open/close/stop, switch knob of close control remote control/prohibit control(non-intrusive)

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.

1. Various output torque from 50Nm to 6000Nm.
  2. Terminal for AOX-Q series local control quarter turn electric actuator
- Spring loaded push type terminal for tight wiring connection under severe vibration.
  - The number of terminals are 22 for users.
  - Terminal length: 8-9mm

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-Terminal size: 10×22×32



3. Space heater for AOX-Q series local control quarter turn electric actuator

-Metal casing, fast heat, long life, with the built-in temperature switch to prevent overheating.

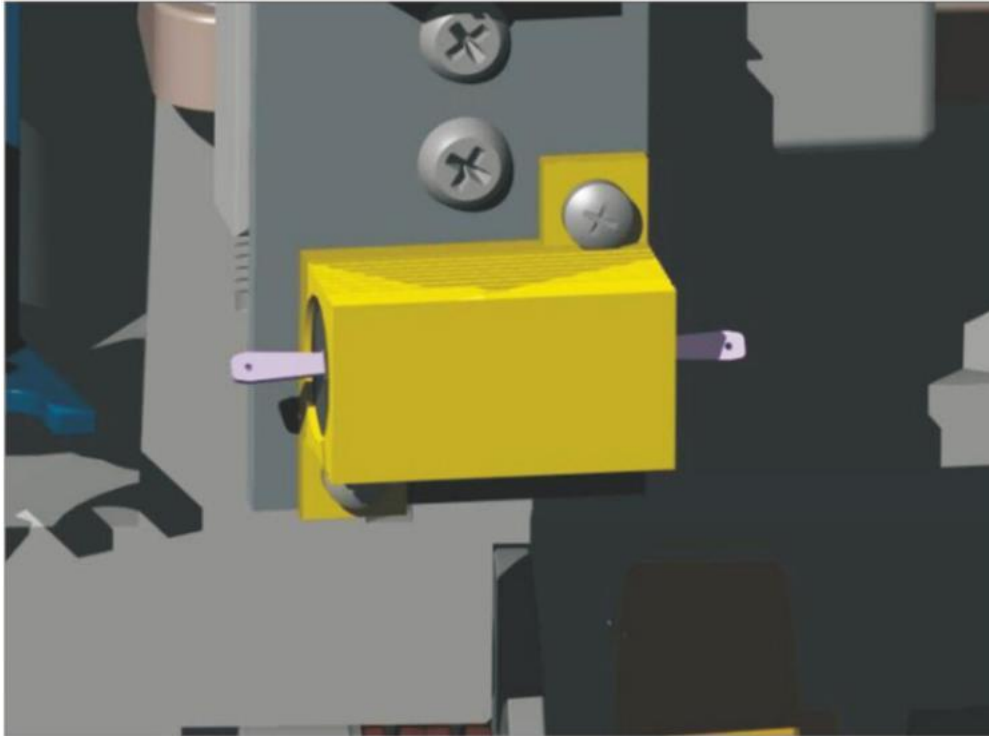
-Core ceramic sealing member, there is no risk of leakage.

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## Performance Parameter

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-011	150	21/25	Φ20	40	1.65/1.6	0.88/0.8	0.31/0.3	0.30/0.3	11	17.3

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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	0.34/0.35	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

## Standard Specification

Shell	Enclosure :IP67,NEMA4, Exd II CT5
Power	Standard:220VAC/1ph

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	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	
Manual operate	Declutching mechanism, operate by handwheel	
Self-locking device	Self-locking by worm and worm gear	
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)	
Lubrication	Grease moly (EP type)	
Material	Steel, Aluminum alloy, Aluminum bronze,Polycarbonate	
Ambient humidity	Max 90%RH	Non-Condensing
Anti-vibration	X Y Z 10g,0.2~34 Hz,30 minutes	
External coating	Dry powder, Epoxy polyester,high anti-corrosion	

## Option Specification

No.	Option scheme	Remark
1	Explosion-proof actuator (Exd II CT5)	AOX-Q series
2	Potentiometer unit (1K-10K)	AOX-Q series
3	Proportion control unit (control signal 4-20mA DC/1-5V/1-10V)	AOX-Q series
4	Local control units (local control open/stop/close optional switch,	AOX-Q series

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	local/remote switch)	
5	Travel 120°, 180°, 270°	AOX-Q series
6	Direct current motor(24VDC)	AOX-Q series
7	Water-proof actuator (IP68,10M,250HR)	AOX-Q series
8	Reverse electromagnetic control and transmission integrated motor starter	AOX-Q series
9	Torque switch (SPDT×2 250VAC 10A)	Except AOX-Q-005/008/010
10	Electric current position sensor (output 4-20mA DC)	AOX-Q series
11	High temperature resistance actuator (-10°C ~+100°C)	AOX-Q series
12	Low temperature resistance actuator (-60°C ~+30°C)	AOX-Q series
13	Low speed actuator	AOX-Q series
14	Bus-control unit	AOX-Q series

## Manufacturing process



We insist that stability and reliability are the first requirement of industrial products, and exquisite technology as well as advanced equipment ensures excellent quality of products.

AOX sustained investment in high-level equipment enables the strict control on

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manufacturing process, which assures good quality of AOX-Q series local control quarter turn electric actuator.

## R&D Capability



With the value placed on domestically developed products and respect for intellectual property, R&D team of AOX has totally obtained 96 national patents. To maintain our status as leader of this industry, we will continue to focus on innovation and implement highest quality standards and lead the high quality AOX-Q series local control quarter turn electric actuator.

## Our Patents



## Transportation

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Package : Plywood case or carton packaging

Shipping: 15 days after payment



## FAQ

Q: What payment methods your company accept?

A: We accept most of the payment methods, but mainly accept T/T, L/C, Western Union.

Q: What does AOX offer?

A: We offer: Electric actuator (AOX-R, AOX-Q series local control quarter turn electric actuator, AOX-L, AOX-QL, AOX-M).

Pneumatic actuator (AOX-P). Limit switch box (APL-210N, ASK-510N).

Q: What will AOX price term?

A: We can offer FOB, CIF, EX-WORK at a reasonable price.

Q: Do you have stock of AOX-Q series local control quarter turn electric actuator?

A: Most of products are under regular production we can make delivery immediately if we have the specific one in stock.

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