



AUX-III Electric Actuator Series

OPTION SPECIFICATION

No.	Option scheme	Remark
1	Explosion-proof actuator (Exd CT4)	AOX-M Series
2	Water-proof actuator (IP68,10M,250HR)	AOX-M Series
3	Potentiometer unit (1K-10K)	AOX-M Series
4	Proportion control unit (control signal 4-20mA)	AOX-M Series
5	Local control units (local control open/stop/close optional switch, local/remote switch)	AOX-M Series
6	High temperature resistance actuator (-10℃ ~ +100℃)	AOX-M Series
7	Low temperature resistance actuator (-60°C ~ +30°C)	AOX-M Series
8	Special output drive	AOX-M Series
9	Bus Control Unit	AOX-M Series























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AOX has been dedicated to the research, design and manufacturing of actuators for more than 20 years. Adhere to strict and reliable principle, rely on rich field application experience, we provide the optimum auto-control products and solution in fluid-control application area such as pressure, flow rate and liquid level.

We have a group of passional, continuously innovative, high-quality R & D staff to forge ahead. From initial design to the selection of material, the determination of craft, exquisite manufacturing process and rigorous test procedure ensure each product from AOX meets the most severe hazard working condition.

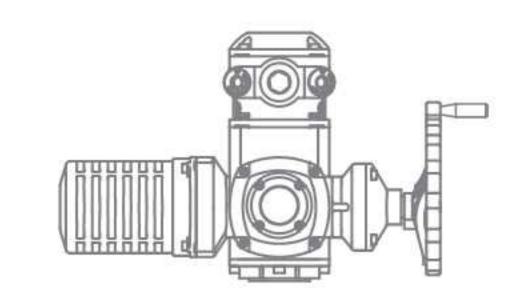
Of course, it is an endless challenge to create more and better industrial process control products.

AOX is brave and strong enough to face this challenge.

We are sure to achieve this aim. OK! AOX

AOX-M Electric Actuator

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Production Strength

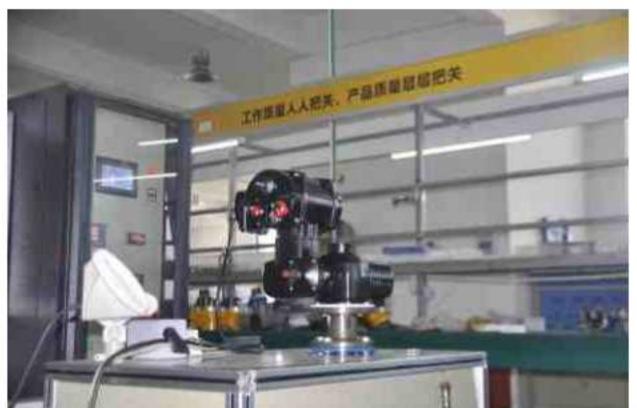
The basis of market competition is inseparable from the production strength, solid financial strength and advanced, perfect hardware. Knowing the importance of hardware, AOX firstly introduced the advanced equipment from abroad in the same industry. We invested tens of millions to renew the hardware, manufacture international standard superior electric actuators and electric valves with international product facilities.















AOX Electric Actuator 2022

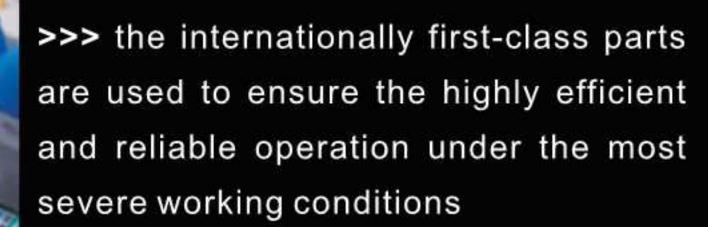
















AOXIANG
ELECTRIC INTELLIGENT ACTUATOR
ELECTRIC VALVES







2022





















Terminal box

Terminal box, which is double sealing and separate enclosure protection, assure the sealing integrity of the electronic component if open the box cover to make the on-site wiring.



- Precise torque measurement
- Reliable electronic system
- Over torque protection
- Motor overheat protection



Manual operation

- -In the commissioning or in an emergency the actuator can be operated by handwheel.
- -By operating the red button to disconnected the actuator and motor and start manual operation. Because the self-locking worm gear between the motor and the operating shaft are separated, it's very easy to turn to manual operation even if the actuator is running at maximum torque.
- -After starting the motor, automatically breaks away from manual operation, when the motor is operating the hand wheel does not work.



Motor

Specially designed high starting torque motor, can frequent open the valve from fully closed position. In addition to the three-phase AC motors, single-phase AC and DC motors are also suitable for AOX-M series actuators.



Installation flange is according to EN ISO5210 or DIN 3210 standard. Various types of output drive types to choose, suitable for different types of valves.





Structural characteristics of electric actuator

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Electric Actuator

















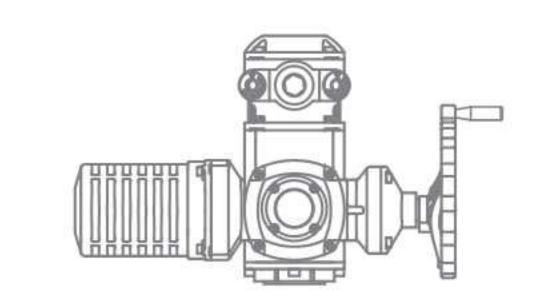
SUMMARY

"AOX-M"series intelligent multi-turn actuator is applied in controlling various valves and other similar products, include butterfly valve, ball valve, gate valve, control valve and etc. It is widely applied in petroleum, chemical, water treatment, shipping, paper making, power plants, heating, building automation and other industries. AOX-M series mutil-turn actuator combine the characteristic of intelligent and reliable, and expand richer application based on basic modular product, it can meet various kinds of working condition. There are different "AOX-M" valve gear boxes can be configured which greatly expanded the torque range or turn the multiturn actuator into quarter-turn actuator, linear actuator to meet the different requirements. (AOX-M series products have got CE certificate)

PERFORMANCE FEATURES

- 1.Shell-The main shell is made of cast iron, the output is more stable, and the rest is aluminum alloy, lighter weight. The surface coating of epoxy resin, and go through the 12 step of coating protective treatment, with high corrosion resistance, the protection grade is IP67, NEMA4 and 6, IP68 and explosion-proof is optional.
- 2.Motor-Fully enclosed squirrel-cage motor, small size, large torque, and small inertia force, insulation class H, built-in thermal protection switch to avoid damaging the motor.
- 3. Lubrication-Using oil-immersed type, it can provide excellent lubrication and cooling in case of high strength, large temperature difference and high torque, the oil is more stable.
- 4. Terminal box-Terminal box, which is double sealing and separate enclosure protection, assure the sealing integrity of the electronic component if open the box cover to make the on-site wiring. The motor and the controls are connected by 29 contacts.
- 5. Manual structure-The handle is designed to ensures safe, reliable, labor-saving and small. When the power outage, press the red button in the middle of handwheel to make motor and actuator disconnected, and start manual operation. Because of the automatic clutch between the motor and the operating shaft, it is easy to turn to manual operation even if the actuator at the maximum torque. After starting the motor, automatically breaks away from manual operation. When performing motor operation handwheel does not work .(Note: In the situation of no electricity, the electric actuator will remain permanently manual mode).
- 6.Space heater-It is used to control temperature and remain the internal electrical components dry, it can avoid the moisture condensation inside the actuator because of the change of the temperature and weather.
- 7. Torque switch-Providing overload protection, it can shut down the power automatically when jamming to avoid damaging valves and actuators, torque is adjustable within a certain range.
- 8.Self-locking-Precision worm mechanism can efficiently transfer large torque, high efficiency, low noise (max 50 dB), long life, and have self-locking function to prevent the inversion, transmission part is stable and reliable.
- 9.Anti-off bolt-The bolts will attached to the case and not fall off when removing the shell, external screws are made of 304 stainless steel.
- 10.Installation-The bottom mounting dimensions conform to international standard ISO5210, the drive sleeve can be removed for processing as needed. It can be installed vertically and horizontally.
- 11. Circuit-The control circuit in line with single-phase or three-phase power supply standard, circuit layout is compact and reasonable, (It can be designed according to customer requirements).

Electric Actuator



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AUX-M Electric Actuator Series

PERFORMANCE PARAMETER

Model	Output torque	Speed	Max shaft diameter	Power	Rated current (A) 50HZ	Flange	Weight
	Ν·М	RPM	MM	W	AC380V	ISO5210	Kg
AOX-M-007	70 70	45 90	Ф28	400 400	2.23 2.66	F10	32
AOX-M-010	120 120 120	35 70 105	Ф28	600 600 800	2.33 3.56 3.76	F10	38
AOX-M-020	300 300	34 67	Ф40	1100 1100	4.22 6.95	F14	68
AOX-M-050	450 450	34 67	Ф40	1100 1500	9.58 12.23	F14	70
AOX-M-060	600 600	34 67	Ф55	3000 4000	13.86 16.26	F16	103
AOX-M-080	800 800	34 67	Ф55	3000 4000	17.87 24.31	F16	103
AOX-M-100	1000	34	Ф55	4000	18.68	F16	103

TECHNICAL PARAMETER

Shell	Enclosure :IP67,IP68 is optional,NEMA4, NEM A6					
Power	Standard:380V AC/3ph Optional:110/220V AC/1ph 440V AC/2ph 50/60Hz +10%					
Matar	Optional:110/220V AC/1ph,440V AC/3ph, 50/60Hz, ±10%					
Motor	Asynchronous motor					
Limit switch	1×Open/ Close, SPDT,250V AC 10A (on/off model)					
Auxiliary limit switch	1×Open/ Close, SPDT,250V AC 10A (on/off model)					
Torque switch	1×Open/ Close, SPDT,250V AC 10A					
Operating temperature	Internal-placed thermal protection, Open 120℃ ±5℃ /Close 97℃ ±5℃					
Manual operation	Declutching mechanism, with handwheel operation					
Self-locking device	Self-locking by worm and worm gear					
Space heater	30W (110/220V AC) Condensation preventing (according to conditions, can be adjusted)					
Conduit entry	Double seal 3× (NPT3/4"、NPT1-1/2"、NPT1" optional)					
Ambient temperature	-25℃~+70℃ (-30℃、-40℃、-60℃ optional)					
Lubrication	Special oil for 00 actuators					
Material	Ductile iron, high-strength aluminum alloys, steel, 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					
Overload protection	Torque peak overload protection					

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Application

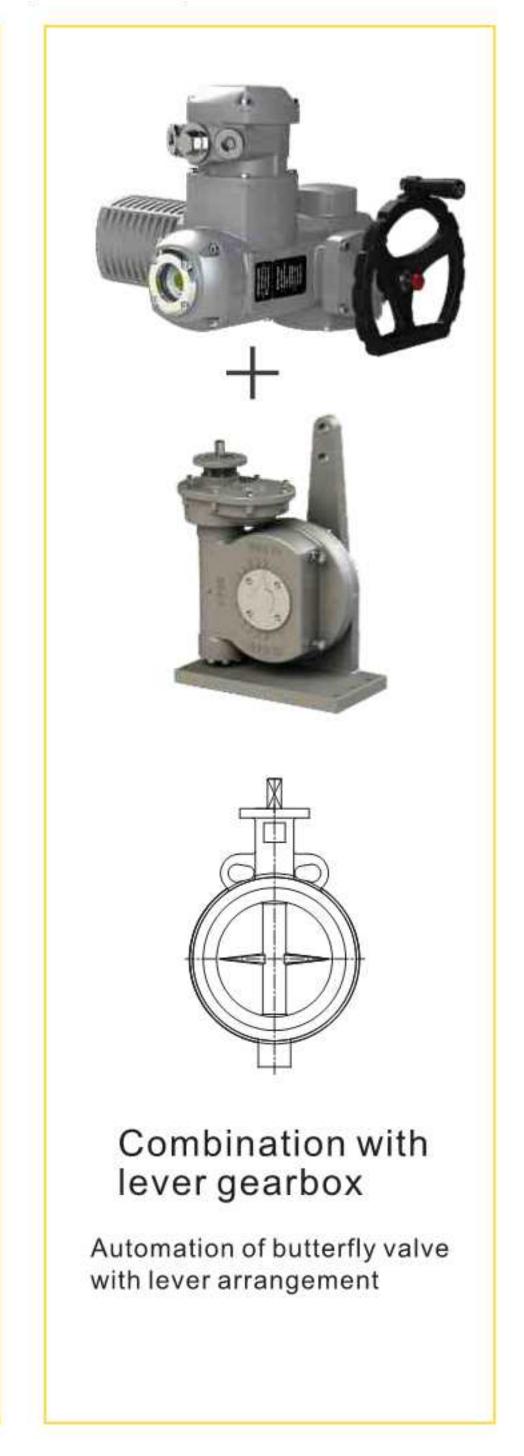
AOX-M series multi-turn actuators are suitable for valve automation of various size and pressure levels within any plant. The application is guaranteed by the following factors:

- 1.Large torque range.
- -The value of torque can be 15 12000NM, the speed can be 40 140 RPM.
- 2.Combination with different AOX-M gear box.
- 3.Many kinds of type selection: ON/OFF model、 Modulating model、 Explosion-proof model.









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