



## High Performance Automation

### Electric Multi Turn Valve Actuator



#### Summary

"AOX-M" series high performance automation electronic multi turn valve actuator is a multi turn actuator independently developed and manufactured by AOX. The "AOX-M" series has different torque selection ranges, with torque values ranging from 15-3000nm and speeds ranging from 10-110RPM. Different "AOX-M" valve actuator can also be configured to greatly expand the torque range or multi rotation actuators can be changed into partial rotation, crank arm and linear actuators. Suitable series types can be found for various requirements.

## Product Introduction of the high performance automation electric multi turn valve actuator

Comparison of short-time and intermittent working modes of "AOX-M" series high performance automation electronic multi turn valve actuator. The first is short-time operation: the operation time of S2 fixed load is short, so the thermal balance is not damaged. The machine can be cooled down to the ambient temperature at a sufficiently long interval, and the working time is limited to 15 minutes, 10 minutes and 30 minutes. Second, the intermittent operation S4 is a similar cycle including start-up time, running time and intermittent time under a constant load. The machine can cool down during the stop time, so the thermal balance is not damaged. The relative charging time of s4-25% or s4-50% is limited to 25% and 50% respectively.

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## Product Parameter ( Specification )of the high performance automation electric multi turn valve actuator

Torque Range:	40 - 1000 Nm Direct Output
Speed:	34 35 45 67 70 90 (rpm)
Ambient Temperature:	-30°C --+70°C Optional: -40°C- 60°C
Anti-vibration Level:	JB/T8219
Noise Level:	Less than 75 dB within 1 m
Corrosion level:	Epoxy powder coating NEMA 4X corrosion protection is optional.
Explosion-proof level:	Exd IIC T5 design
Input :	AC 110/220 Input
Signal Feedback:	Integrated fault contacts,Close the valve contact,Open the valve contact

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Modulating type signal:	Input signal: 4 - 20 mA; 0 - 10 V; 2 - 10 V; Output signal: 4 - 20 mA; 0 - 10 V; 2 - 10 V						
Motor:	Asynchronous motor						
Limit switch:	1×Open/ Close, SPDT,250V AC 10A (on/off model)						
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)						
External coating:	Dry powder, epoxy polyester,high anti-corrosion						
Model	Output torque	Speed	Max shaft diameter	Power	Rated current (A) 50HZ three phases	Flange	Weight
	N·m	RPM	mm	W	380V		
AOX-M-007	70	45	Φ28	400	2.42	F10	32
	70	90		400	2.95		
AOX-M-010	120	35	Φ28	600	2.25	F10	38
	120	70		600	3.18		
	120	105		800	5.15		
AOX-M-020	300	34	Φ40	1100	4.50	F14	68
	300	67		1100	6.85		
AOX-M-050	450	34	Φ40	1100	9.58	F14	70
	450	67		1500	14.80		
AOX-M-060	600	34	Φ55	3000	10.89	F16	103
	600	67		4000	16.50		
AOX-M-080	800	34	Φ55	3000	12.43	F16	103
	800	67		4000	23.50		
AOX-M-100	1000	34	Φ55	4000	30.20	F16	103

### Option specification the high performance automation electric multi turn valve actuator

NO.	Option cheme	Optional
1	Explosion-proof actuator (Exd II CT4)	AOX-M series
2	Water-proof actuator (IP68,10M,250HR)	AOX-M series

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3	High temperature resistance actuator (-10°C~+100°C)	AOX-M series
4	Low temperature resistance actuator (-60°C~+30°C)	AOX-M series
5	Special output drive	AOX-M series

## **Production details of the high performance automation electric multi turn valve actuator**

Motor: the specially designed high starting torque motor can frequently open the valve from the fully closed position. The motor developed by aox-m meets this basic requirement. In addition to the commonly used 3-phase AC motor, single-phase AC motor and DC motor can be applied to aox-m series actuators respectively. If special voltage is used, please communicate with the technical service personnel of the company in advance.



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