



Industrial Electric Multi Turn Valve

Actuator



Summary

AOX has been in the electric actuator industry for more than 20 years. "AOX-M" series electric actuator is an industrial electric multi turn valve actuator. It uses 380V, 220V and 110V AC power as the driving power supply and 4-20mA current signal or 0-10V DC voltage signal as the control signal to move the valve to the required position. So as to realize its automatic control.

Product Introduction of the industrial electric multi turn valve actuator

The valve actuators of "AOX-M" series industrial electric multi turn work in two ways. The first is the short-time switching type: the standard of AOX-M switching multi rotation actuator is the 15 minute short-time type. The special series can also make s2-30min standard or higher, but the torque value will be lost. Specific instructions are required according to customer requirements. The second is intermittent regulation type operation: in regulation application, the variable is subject to multiple factors. The change of command input signal, pressure fluctuation in the pipeline, and temperature change can all affect the process. Therefore, it is required to adjust the electric valve frequently. The sensitive adjustment is started every few seconds, so there are high requirements for the adjustable multi rotation actuator. Mechanical components and motors must be reasonably involved and can withstand a large number of frequent operations without loss of adjustment accuracy.

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Product Parameter (Specification)of the industrial electric multi turn valve actuator

Electrical interface:	2* NPT 3/4 , 1* NPT1 1/2
Ingress Protection:	IP67 , Optional:IP68
Connection size:	ISO5210(Thrust torque type)and JB2920(Three claw type)
Motor Specifications:	Class F, with thermal protector up to +135 °C (+275 °F)
Working System:	On-off Type: S2 15 min, no more than 600 times per hour start.
Other Function:	Torque protection;Motor overheat protection;Moisture-resistant heaters (anti-moisture device)
Shell:	Enclosure:IP67 (IP68 optional) ,NEMA4 and 6

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Motor:	Asynchronous motor						
Auxiliary limit switch:	1×Open/ Close, SPDT,250V AC 10A (on/off model)						
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)						
Ambient temperature:	-25℃~+70℃ (-30℃、-40℃、-60℃ optional)						
External coating:	Dry powder, epoxy polyester,high anti-corrosion						
Overload protection:	Torque peak overload protection						
Display screen:	LED display (smart regulation type)						
Electrically:	Integrated control unit with a non-invasive rotary switch						
Model	Output torque	Speed	Max shaft diameter	Power	Rated current (A) 50HZ	Flange	Weight
	N·m	RPM	mm	W	three phases 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



Standard specification the industrial electric multi turn valve actuator

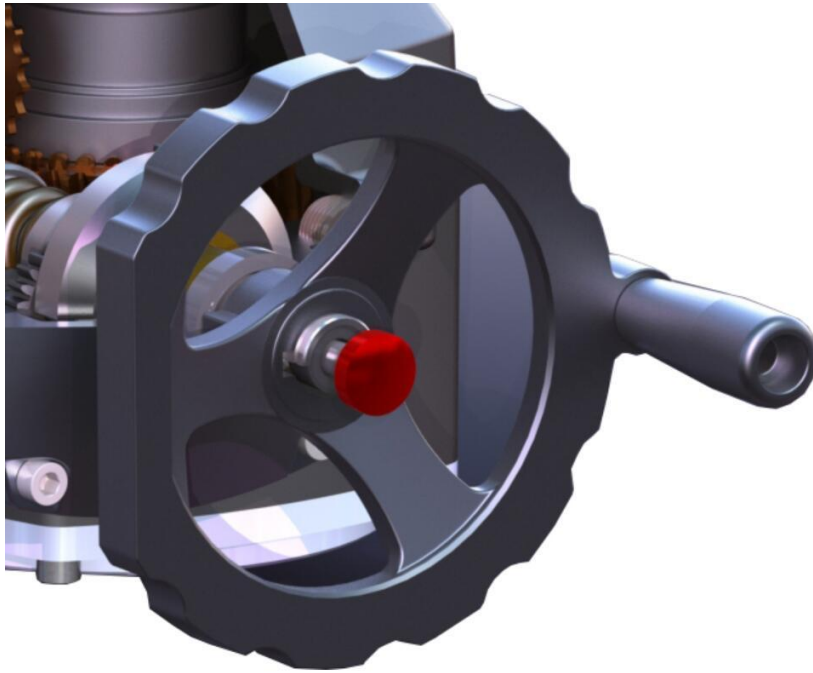
Conduit entry	Double seal 3× (PT3/4"、PT1"、PT1-1/2"optional)	
Ambient temperature	-25℃~+70℃ (-30℃、-40℃、-60℃ optional)	
Lubrication	Special oil for 00 actuators	
Material	Ductile iron, high-strength aluminum alloys, steel, aluminum bronze, polycarbonate	
Ambient humidity	Max 90% RH	Non-Condensing
Anti-vibration	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	
Display screen	LED display (smart regulation type)	
Setting mode	Non-intrusive setting (without opening the cover set type)	
Electrically	Integrated control unit with a non-invasive rotary switch	

Production details of the industrial electric multi turn valve actuator

Flange connection:The "AOX-M" series intelligent multi-turn electric actuators have mounting flanges in accordance with EN ISO 5210 or DIN 3210. Various types of output drive types are available for different types of valves.



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