



Customizable Electric Motor Multi Turn Actuator



Summary

AOX is committed to R & D, design and manufacturing actuators for more than 20 years. Adhering to the principle of preciseness and reliability, with years of rich field application experience, AOX provides the best automatic control products and solutions for fluid control applications such as pressure, flow and liquid level, and has achieved many results. "AOX-M" series customized electric motor multi turn actuator is a valve actuator independently developed and manufactured by AOX.

Product Introduction of the customizable electric motor multi turn actuator

The closing mode of "AOX-M" series customizable electric motor multi turn actuator valve: Based on the design requirements of the valve, it can be a limit stop (subject to the stroke completed by the valve) at the terminal position, mainly through the position feedback of the absolute encoder collected by the actuator position, or a torque stop (subject to the set torque). Therefore, the actuator is equipped with two independent measurement systems, namely, electronic position detection and torque switch. Because the valve closing method must consider the setting of the actuator and the control of the actuator at the same time. Therefore, the signal processing methods for the two types of valve closing modes are different.

Zhejiang Aoxiang Auto-Control Technology CO.,Ltd

Tel: [+86-577-59890750](tel:+86-577-59890750)

Phone: [+86-18967766527](tel:+86-18967766527)

Fax: [+86-0577-65921296](tel:+86-0577-65921296)

E-mail: zjaox@zjaox.com



Product Parameter (Specification)of the customizable electric motor multi turn 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
Motor Specifications:	Class F, with thermal protector up to +135 °C (+275 °F)

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Modulating Type:	S4 50 %, up to 600 triggers per hour						
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						
Loss Signal Mode Setting:	N/A						
Operating temperature:	Internal-placed thermal protection, Open 120°C ±5°C /Close 97°C ±5°C						
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× (PT3/4"、PT1"、PT1-1/2"optional)						
Ambient temperature:	-25°C~+70°C (-30°C、-40°C、-60°C optional)						
Lubrication:	Special oil for 00 actuators						
Ambient humidity:	Max 90% RH			Non-Condensing			
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						
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

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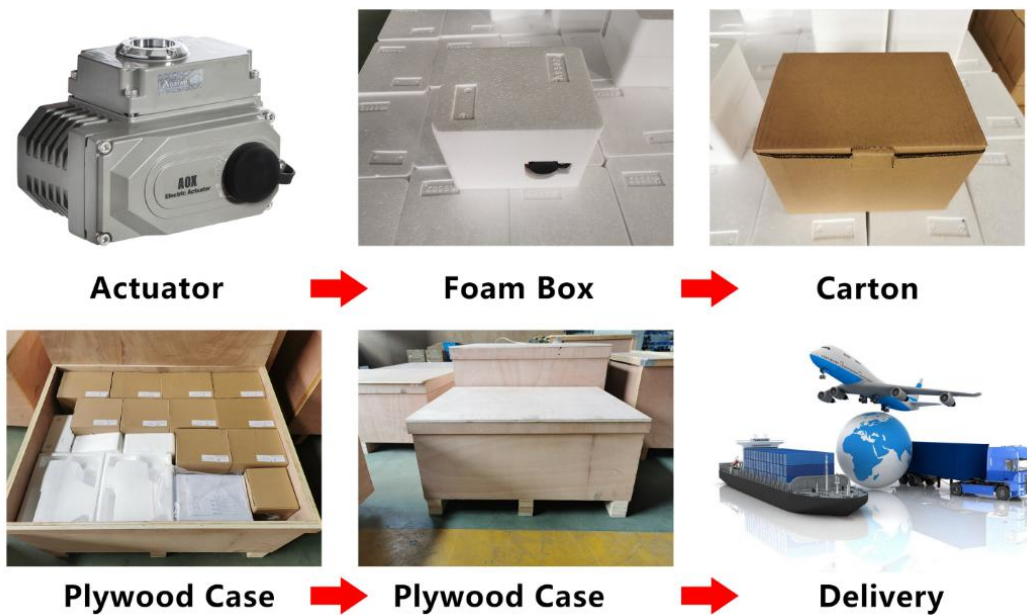
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Packaging the customizable electric motor multi turn actuator



While ensuring the product quality, we also pay attention to the details of control, especially the product packaging. Fine packaging can effectively ensure the appearance of “AOX-M” series non-invasive multi turn electric actuators and bring good experience to customers.

Production details of the customizable electric motor multi turn actuator

Valve control: the traditional potentiometer test valve position is eliminated in favour of a magnetic induction absolute encoder, which improves position accuracy and allows accurate and reliable recording of the valve position without the need for batteries when the actuator is powered down.

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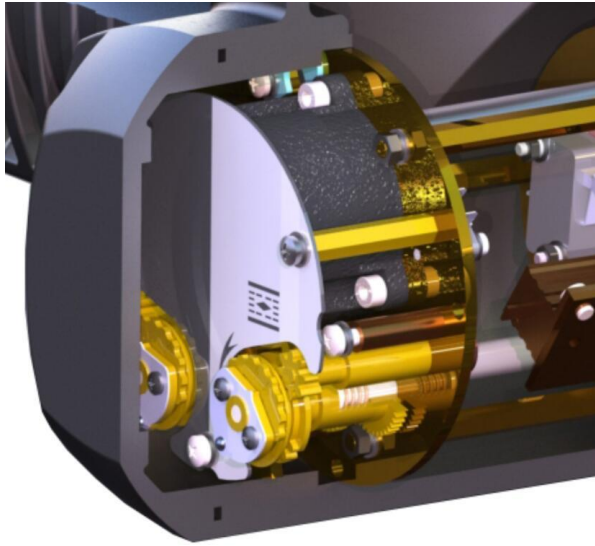
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www.aox-privod.com



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E-mail: zjax@zjax.com