



Smart Part Turn Electric Motor Operated Valve Actuator

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Summary

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Product Introduction of the smart part turn electric motor operated valve actuator

"AOX-R" series is a **smart part turn electric motor operated valve actuator** developed by AOX company, and has obtained many certifications such as DNV, CCS and EU CE. The "AOX-R" series electric actuator mainly consists of the following parts:

1. shell part: including the shell and base part;
2. drive part: high performance fully enclosed squirrel cage motor as the power source;

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



- 3. transmission mechanism: worm wheel and gear transmission part;
- 4. proportional control part: separated from the mechanical part, easy to debug;
- 5. Limit switch part;
- 6. opening degree detection and feedback part.

The **smart part turn electric motor operated valve actuator** is suitable for fire protection, petroleum, chemical industry, water treatment, environmental protection, military, new energy, ships, power stations and other industries.



Product Parameter (Specification)of the smart part turn electric motor operated valve actuator

Switching time:	20 ~ 200S;
Control mode:	on-off / regulating / intelligent;

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Weight:	2.1 KGS ~ 68KGS
Single phase:	AC220V / AC110V / AC24V / DC24V;
Limit switch:	2 * open / close, SPDT, 250V AC 10A;
Position indicator:	the valve position dial can display continuous position change even in case of power failure;
Self locking device:	turbine and worm mechanism provide self-locking;
Lubrication:	aluminum base grease (EP type);
Manual operation:	mechanical handle (optional handwheel);
Output signal:	(On-off type) Fully open & fully close passive contact(2A 250VAC).
Display Mode:	LCD, indication of opening(0-100%) and open/close fault.
Type of On-off Signal:	Contact signal. Pulse signal
Local Controller:	AOX remote control(Optional)

Model	Maximum output torque	Actuation time	Output shaft (mm)	Electrical machinery	Single-phase rated current (A)	Weight
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	N·M	(90°)	Square	Dee p	(W)	220V(A)50H Z (kg)	(kg)
AOX-R-00 3	30	20	11×11	15.5	8	0.24	2.1
AOX-R-00 5	50	30	14×14	18	10	0.23	3.6
AOX-R-00 8	80	30	14×14	18	10	0.24	3.6
AOX-R-01 0	100	30	17×17	22.5	15	0.41	4.6
AOX-R-01 5	150	40	17×17	22.5	15	0.41	4.6
AOX-R-02 0	200	30	22×22	26	60	0.44	13
AOX-R-03 0	300	30	22×22	26	60	0.48	13.4
AOX-R-04 0	400	30	22×22	26	60	0.54	13.8
AOX-R-06 0	600	40	27×27	32.5	60	0.57	14

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AOX-R-08 0	800	40	27×27	32.5	90	0.91	14.3
AOX-R-10 0	1000	40	27×27	32.5	90	1.18	14.5
AOX-R-16 0	1600	60	MaxΦ6 0	133	90	1.08	68
AOX-R-20 0	2000	60	MaxΦ6 0	133	90	1.30	68
AOX-R-30 0	3000	120	MaxΦ6 0	133	90	1	68
AOX-R-40 0	4000	200	MaxΦ6 0	133	90	0.93	68
AOX-R-50 0	5000	200	MaxΦ6 0	133	90	1	68

Product Feature And Application of the smart part turn electric motor operated valve actuator

Other electric actuators

AOX-R series

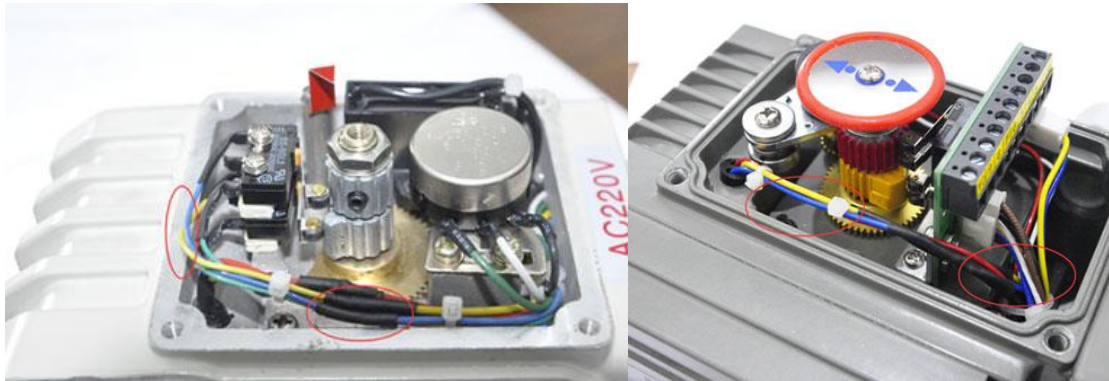
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Other factories make electric actuators with irregular wiring at the beginning of the design, with excessively long cable wires, which may be pressed into the cable wires during installation, leading to phenomena such as wear and tear of the cable wires and leakage short circuits, affecting the normal use of the actuator." AOX-R" series valve actuator control line conforms to the standard of single-phase or three-phase power supply, the line arrangement is compact and reasonable, and the cable line will not be pressed during installation, which invariably improves the service life of the actuator.

Production details of the smart part turn electric motor operated valve actuator

1.AOX uses aluminium alloy for all gearboxes, which eliminates the problem of cracked gearboxes and makes the transmission part of the actuator more rational and reliable; the gears of all AOX products are made of 40 chrome steel refined by secondary heat treatment, which is very robust and reliable and increases the service life of the actuator.

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2. AOX makes the motor temperature rise lower by increasing the size of the motor. The principle is that the capacitor capacity is reduced for the same power, lowering the starting current and reducing the degree of heat generation.



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www.aox-privod.com

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