



AOXIANG
ELECTRIC INTELLIGENT ACTUATOR
ELECTRIC VALVES



AOX
ELECTRIC ACTUATOR

Aox electric actuator

Patented products,
counterfeiting not allowed

Summary

"AOX" series electric actuator is used for controlling $0^{\circ} \sim 270^{\circ}$ rotation of the valves and other similar products, such as butterfly valve, ball valve, damper, flapper valve, cock valve etc. It widely applies to petroleum, chemical, water treatment, shipping, paper making, power plant, heating, light industry and other industries. Driven by 380V/220V/110V AC power or 24V/110V DC power, inputs 4-20mA current signal or 0-10V DC voltage signal as control signal, moves the valve to the right position, and achieves to automatic control, maximum output torque is 6000N·M

Performance Feature

1. Shell--The shell is made of horniness aluminium alloy, with anodic oxidation treatment and polyester powder coating. It is strong corrosion-resistant and enclosure IP67, NEMA 4 and 6, IP68 is optional.
2. Electric Machinery--Fully enclosed Squirrel-cage machinery, machinery, small, large torque, and small inertia force, F-class insulation rating, place hot protection switch internal to avoid damaging the electric machinery.
3. Manual Structure--The design of handle is safe, reliable, labor-saving, small. If without power, it can be operated by handle. If don't operate by handle, put the spanner in the spanner folder, convenient to use.
4. Indicator--Installs indicator in the center axis and adopts convex mirror design, no cumulate water, more convenient to observe.
5. Space heater--It is used for controlling temperature, avoiding internal moisture of electric actuator condensed because of the changing of temperature and weather, keep inner electric device dry.
6. Sealing--Well sealing performance and enclosure IP67, IP68 is optional.
7. Limit switch--Mechanical, electronic double limit. Mechanical limit screw is adjustable, safe and reliable; electronic limit switch is controlled by the cam. Set position accurately and conveniently by simple adjustment, and it is not affected by excessive handle.
8. Self-locking--Accurate worm and worm gear transfer large torque efficiently, high efficiency, low noise (max. 50 dB), long life, with self-locking function, prevent inversion, as stable and reliable transmission parts, no need to refuel.
9. Anti-off bolt--The bolt will attach to the shell and not be off when remove the shell.
10. Installation--The installation size of the bottom meets international standard ISO5211 / DIN3337. There are double squares between the bottom and the hole connect to the stem which are convenient to install square stem valve straightly or in 45° rotation angle.
11. Circuit--Controlling circuit meet the single-phase or three-phase power supply standard, circuit layout is reasonable and compact, terminals meet various of additional functional requirements effectively.

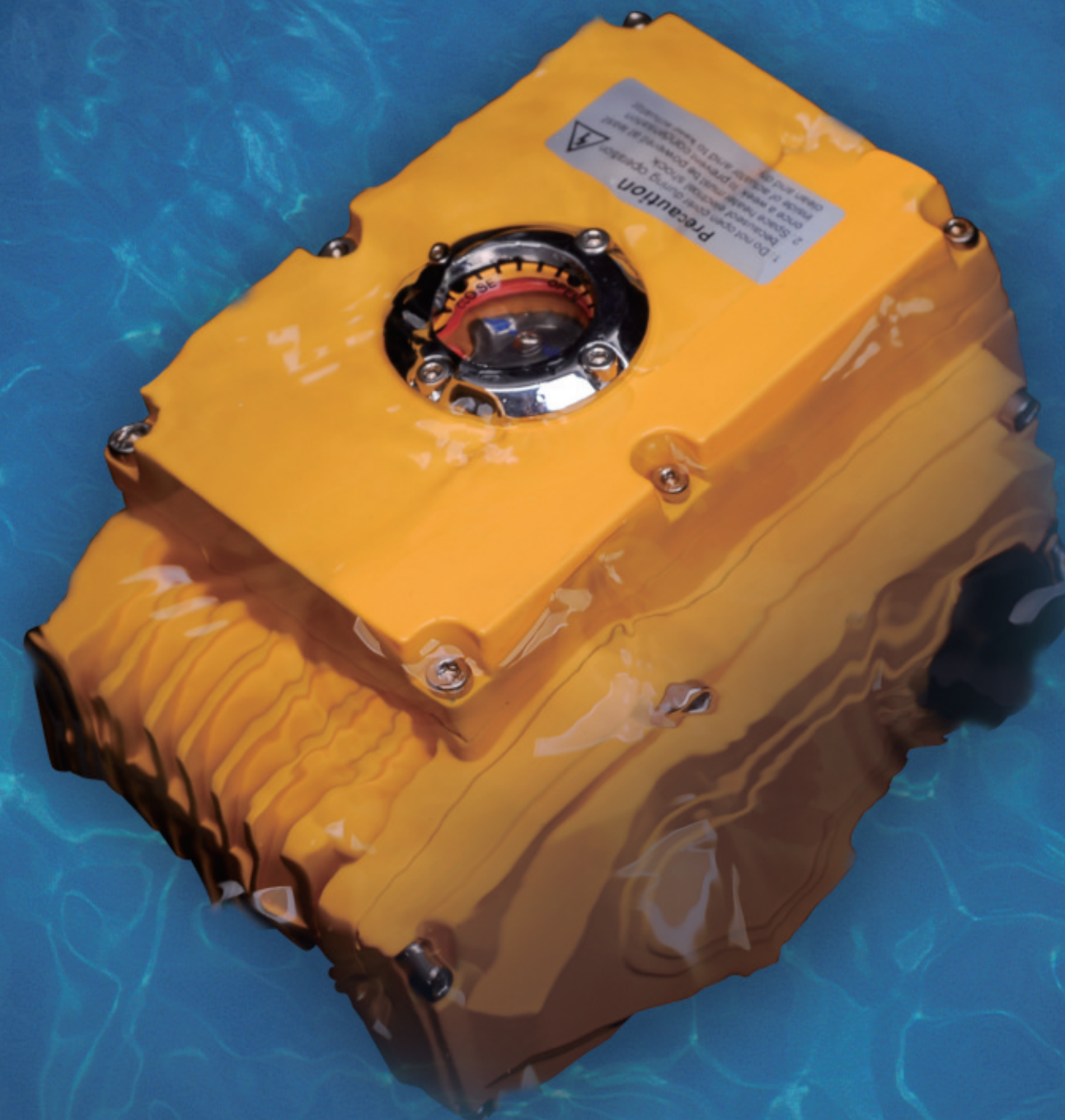
AOX
Electric Actuator

Performance Parameter

Model	Max output torque N·M	Operating Time 90°(S)	Output axis(mm)				Motor (W)	Single-phase rated current 220V(A)50HZ	Weight (kg)
			Square	Deep	Round	Deep			
AOX-003	30	10	9×9 11×11	13.5 15.5	Φ12.6	26	8	0.15	2.1
AOX-005	50	30	11×11 14×14	15.5 18	Φ12.6	26	10	0.25	3.6
AOX-008	80	30	11×11 14×14	15.5 18	Φ15.78	26	10	0.25	3.6
AOX-010	100	30	14×14 17×17	18 22.5	Φ15.78 Φ18.95	28	15	0.35	4.6
AOX-015	150	30	14×14 17×17	18 22.5	Φ18.95	28	15	0.37	4.6
AOX-020	200	30	22×22	26	Φ22.13	45	45	0.3	13
AOX-030	300	30	22×22	26	Φ28.48	45	45	0.31	13.4
AOX-040	400	30	22×22	26	Φ28.48	45	60	0.33	13.8
AOX-060	600	30	27×27	32.5	Φ31.65	45	90	0.33	14
AOX-080	800	40	27×27	32.5	Φ31.65	45	180	0.47	14.3
AOX-100	1000	40	27×27	32.5	Φ31.65	45	180	0.47	14.5
AOX-160	1600	120	Max Φ45		Deep 65		180	0.85	68
AOX-200	2000	120	MaxΦ45		Deep 65		180	0.85	68
AOX-300	3000	120	MaxΦ45		Deep 65		180	0.85	68
AOX-400	4000	200	MaxΦ45		Deep 65		180	0.85	68
AOX-500	5000	200	Max Φ45		Deep 65		180	0.85	68
AOX-600	6000	200	MaxΦ45		Deep 65		180	0.85	68

Standard Technical Parameter

Shell	Aluminium alloy Shell, Enclosure:IP68,NEMA4 and 6	
Power	Standard:220V AC single-phase Optional:110V AC single-phase,380V/440V 3phase ,50/60HZ, ±10% 24V DC/110V DC/220V DC	
Controlling power	110/220V AC 1Phase,50/60 Hz, ±10%	
Motor	Squirrel-cage Asynchronous Motor	
Limit switch	2×Open/ Close,SPDT,250V AC 10A	
Auxiliary Limit Switch	2×Open/ Close,SPDT,250V AC 10A	
Stroke	90° ~270°±10°(Please specify in advance if over 90°)	0°~270°
Stall protection/ Operating temperature	Internal-placed thermal protection, On 120℃ ± 5℃/Off 97℃ ± 5℃	
Indicator	Continuous situation indication	
Manul operation	Mechanical handle(Handwheel is optional)	
Self-locking device	Self-locking by worm and worm gear	
Mechanical Limit	2 external adjustable screws	
Space heater	7-10W (110/220V AC) Anti-condensation	
Conduit entries	2 Pieces M18	
Ambient temperature	-20℃ ~+70℃	
Lubrication	Grease moly(EP tyte)	
Material	Steel, Aluminium alloy, Aluminium 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	



Waterproof Type

With non-intrusive design, Enclosure Ip68 (submerge for 3m, 48h) waterproof shell

AOX
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modulating type

3. AOX-005~008 appearance and installation dimension
(The part of broken line is used for analog quantity control box, on/off model don't have this size.)

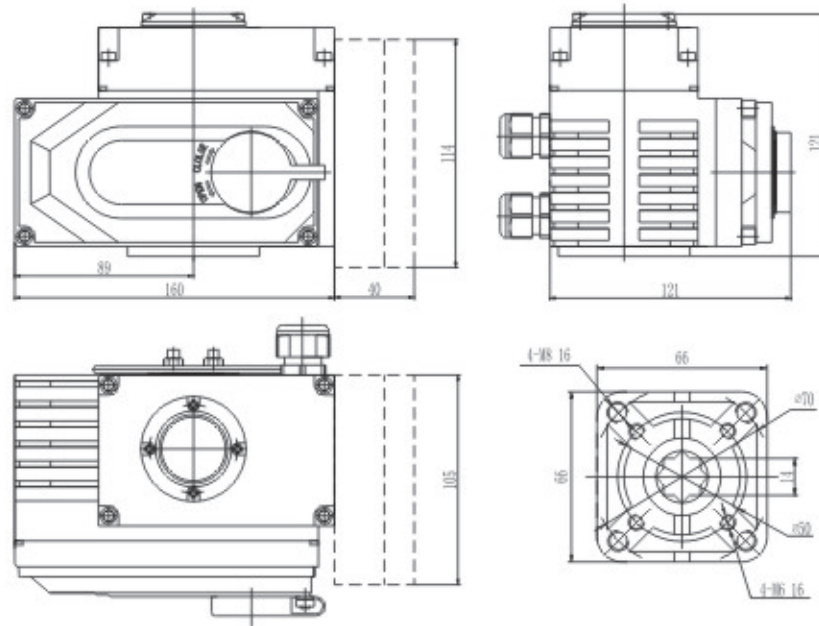


Figure 3

4. AOX-010~015 appearance and installation dimension
(The part of broken line is used for analog quantity control box, on/off model don't have this size.)

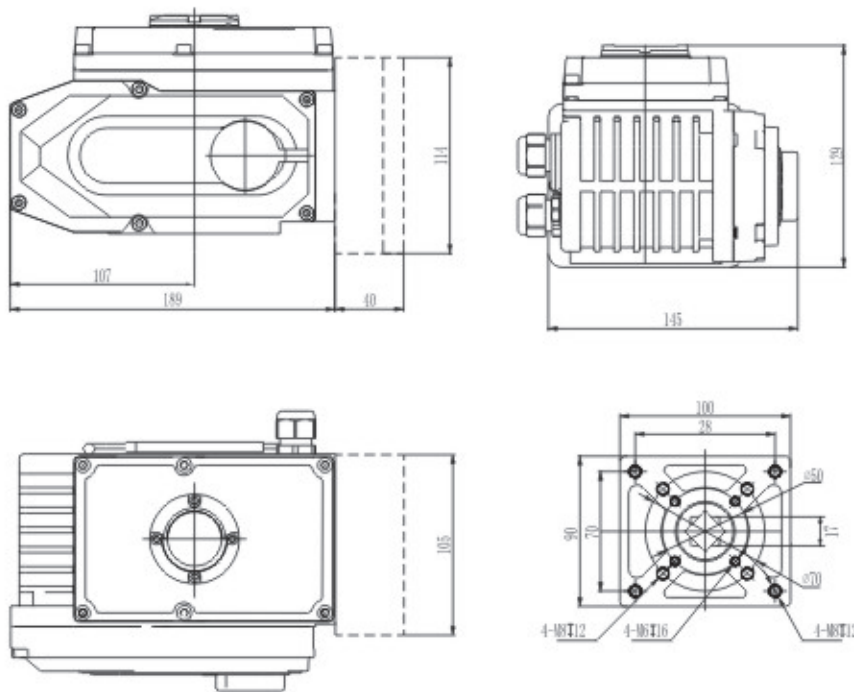


Figure 4

5. AOX-020~100 appearance and installation dimension
(The part of broken line is used for analog quantity control box, on/off model don't have this size.)

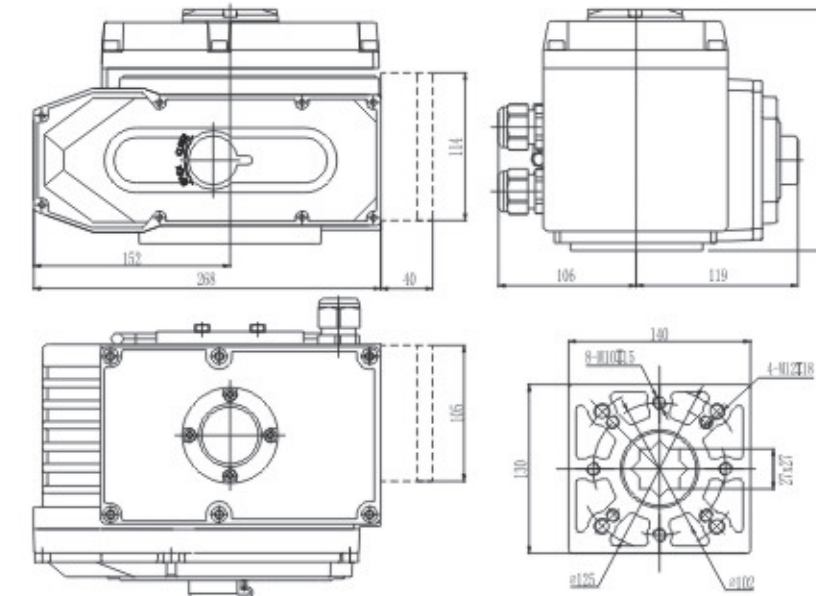


Figure 5

