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## **Automation Electric Linear Actuator With Fieldbus Control**

“AOX-Q-L” Series of automation electric linear actuator with fieldbus control is a product developed by AOX. A variety of different fieldbus systems have been widely used. In a local level or a specific field application, the accuracy of parameter setting is constantly improving. AOX series of electric actuators are widely used in various process automation control fields around the world, and their applications in all fieldbus industries have been established Bit.

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### **Summary**

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### **Product Introduction of the automation electric linear actuator with Fieldbus control**

When the "AOX-Q-L" series automatic electric linear actuator with fieldbus control is operated manually, the power must be cut off first; While turning the hand wheel for one turn, pull the clutch handle to the left to make the clutch engaged, and then continue to rotate the hand wheel to increase the scale (which can be observed through the scale meter). The clutch handle

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switched to the manual state can be kept in the manual state permanently. Do not forcibly pull it. After power on, the clutch automatically resets and switches to the electric state.



## **Product Parameter ( Specification )of the automation electric linear actuator with Fieldbus control**

Force range:	2000 - 40000 N
Max stroke:	100 mm
Running speeds:	0.33 mm/s - 1 mm/s
Ambient temperature:	-25 °C +70 °C
Corrosion level:	Epoxy powder coating. NEMA 4X corrosion protection
Anti-vibration level:	JB/T 8219

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Noise level:	Less than 75 dB within 1 m
Ingress Protection::	2* NPT 3/4
Electrical interface:	IP67, Optional:IP68
Explosion proof mark:	EX d II CT5
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 Modulating Type: S4 - 50 %, up to 600 triggers per hour
Motor:	Asynchronous motor
Limit switch:	2×Open/ Close, SPDT,250VAC 10A
Auxiliary limit switch:	2×Open/ Close, SPDT,250VAC 10A
Torque switch:	Close/Open, each 1, SPDT,250VAC 10A Except AOX-QL-20/30/50/80
Fail safe/ Operating temperature:	Internal-placed thermal protection, Open 115 °C ±5 °C/Close 97 °C ± 5 °C
Indicator:	Continuous position indicator
External coating:	Dry powder, Epoxy polyester,high anti-corrosion

Model	Thrust N	Speed mm/S	Max travel mm	power W	Rated current(A) 50HZ				Weight Kg
					Single-phase		Three-phase		
	110V	220V	380V	440V					
AOX-Q-L20	2000	0.66	60	20	1.10/0.95	0.55/0.54	0.30/0.30	N/A	18
AOX-Q-L30	3000	0.66	60	20	1.10/0.95	0.55/0.54	0.30/0.30	N/A	18
AOX-Q-L50	5000	0.66	60	20	1.10/0.95	0.55/0.54	0.30/0.30	N/A	18
AOX-Q-L80	8000	0.33	60	20	1.10/0.95	0.55/0.54	0.30/0.30	N/A	18
AOX-Q-L100	10000	0.50	60	40	1.65/1.67	0.88/0.84	0.31/0.31	0.30/0.31	30
AOX-Q-L160	16000	0.50	100	40	1.67/1.67	0.89/0.85	0.31/0.31	0.30/0.31	32
AOX-Q-L200	20000	0.44	100	90	1.85/1.86	0.92/0.92	0.35/0.35	0.34/0.34	33
AOX-Q-L250	25000	0.44	100	90	3.60/3.62	1.55/1.58	0.59/0.59	0.58/0.58	34
AOX-Q-L300	30000	0.44	100	90	3.65/3.62	1.60/2.20	0.60/0.59	0.59/0.59	35

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## Application field of the automation electric linear actuator with Fieldbus control



Oil & Gas



Water treatment



Chemical industry



Paper making





Metallurgy



Electric industry

## Difference between "AOX-Q-L" series and "AOX-L" series

Function	AOX-Q-L Series	AOX-L Series
Appearance (AC220V ordinary switch type)		
Power supply ( DC24V 、 DC220V 、 AC110V/AC220V 、 AC380V/AC440V )	√	Expect DC24V、 DC220V
Exd II is designed according to GB / 3836, IEC and cu-rt	Exd II BT5/CT5 (Optional)	×

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standards. ATEX and CCC certification, meeting all potential explosive environments.		
Overload protection: automatically cut off the power supply of the motor when the valve is jammed or there is foreign matter, which can more effectively protect the valve and electric actuator from damage.	√	×

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