



Electric multi turn actuator with Hart control



Electric multi turn actuator with Hart control is specially designed for all multi turn valve applications (linear motion valves) such as globe valve, gate valve, and etc. Our Electric multi turn actuator with Hart control can be customized according to the special requirements of customers. AOX is an electric actuator

manufacturer in China. Based on a wide range of products including high performance multi turn, part turn, and linear actuators, AOX offer automated solutions for all valve types, ranging from ball valves to gate valve.



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Electric multi turn actuator with Hart control Introduction

Electric multi turn actuator with Hart control is widely applied in petroleum, chemical, water treatment, shipping, paper making, power plants, heating, building automation and other industries. Double sealed structure of the wiring chamber. The internal electrical devices are guaranteed to be in a perfectly sealed protection when the actuator is performing on-site installation and debugging. Electric multi turn actuator with Hart control provide the most reliable solution to satisfy our valuable customers and exceed expectations. AOX has its own **factory** in **China**. AOX will continue to develop more advanced products integrating high technology and be ready the most reliable solution.

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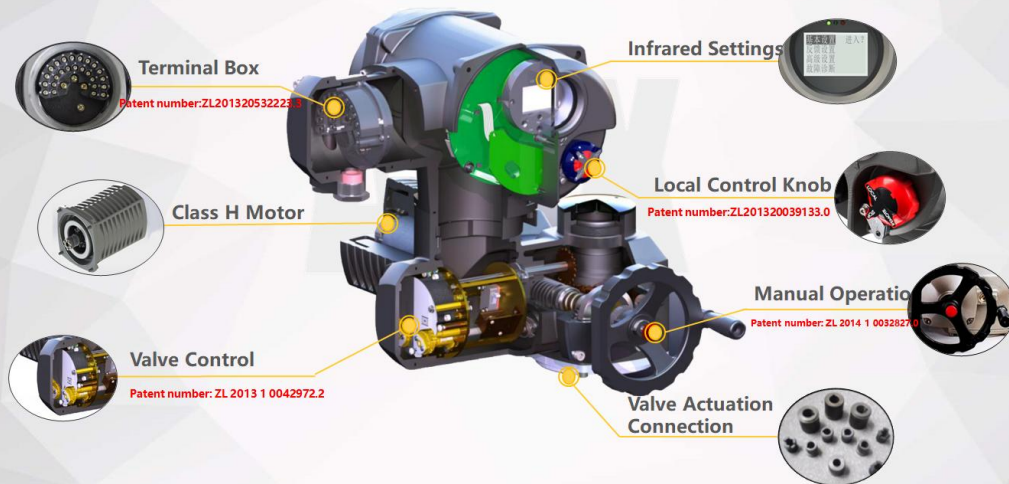
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Structural Features



Product Image



Electric multi turn actuator with Hart control Parameter (Specification)

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| Model | Output torque | Speed | Maxshaft diameter | Power | Rated current (A) 50HZ | Flange | Weight |
|-----------|---------------|-------|-------------------|-------|------------------------|---------|--------|
| | | | | | three phases | | |
| | N·m | RPM | mm | W | 380V | ISO5210 | Kg |
| 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 |

Electric multi turn actuator with Hart control Feature And Application

Torque Range: 40 - 1000 Nm Direct Output

Corrosion level: Epoxy powder coating NEMA 4X corrosion protection is optional.

Explosion-proof level: Exd IIC T5 design

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.

On/off type signal:

Input : AC 110/220 Input

Signal Feedback: Integrated fault contacts, Close the valve contact, Open the valve contact

Precisely machined gearing system & oil lubrication

Integrated local control unit

Mounting base according to ISO5210

Bushing for adapting valve stem

Remote control for setting device/tool

IP68 Enclosure

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Additional Mechanical Parts

Through the combination of AOX-M series multi-turn electric actuator and the following mechanical components, other types of valves can be controlled.

| | |
|---|---|
|  | Through the configuration of linear thrust unit, can constitute a direct stroke actuator, suitable for regulating valves. > Thrust: 10~160 KN > Stroke: 16~100mm (other stroke can be customized) Speed: 3.4~7.5mm/S (according to the stroke) |
|  | Through configuration part of the rotary gear box, can constitute a large part of the rotary actuator torque, suitable for butterfly valve, ball valve, plug valves, etc. Torque: 0.2 ~ 1000 KNm speed: 0.2 ~ 43 r/min |
|  | By configuring multi-turn gearbox, can constitute a large output torque rotary actuator, is applicable to gate valves, globe valves, etc. Torque: 0.1 ~ 100 KNm Speed: 2 ~ 600 s |
|  | By configuring the turn arm type gear box, can turn a arm type actuator, applicable to the throttle, damper valve, butterfly valve, etc. Torque: 0.2 ~ 1000 KNm Speed: 0.2 ~ 43 r/min |



Electric multi turn actuator with Hart control details

1.Double sealing structure terminal box

Terminal box,which is double sealing and separated enclosure protection,assure the sealing integrity of the electronic component if open the box cover to make the on-site wiring.

2.Precise valve position measurement

Electric multi turn actuator with Hart control using magnetic induction absolute encoder, eliminating the traditional potentiometer, improved location accuracy and does not require battery can be accurately recorded valve position when the actuator power outage.

3.Valve mounting standard

Installation flange of Electric multi turn actuator with Hart control is according to EN ISO5210 or DIN3210 standard. Various types of output drive types to choose, suitable for different types of valves.

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