Product Catalogue

AOITEC INTERNATIONAL PTE. LTD.

Ultra-Compact Patented Actuators Engineered for the World

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AOITEC

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Company Overview

Company Overview

Core Business & Mission

AOITEC designs and manufactures electric valve actuators and intelligent automation solutions for fluid control systems. We are committed to delivering precise, reliable, and customizable products that enhance operational performance across industrial applications.

Experience & History

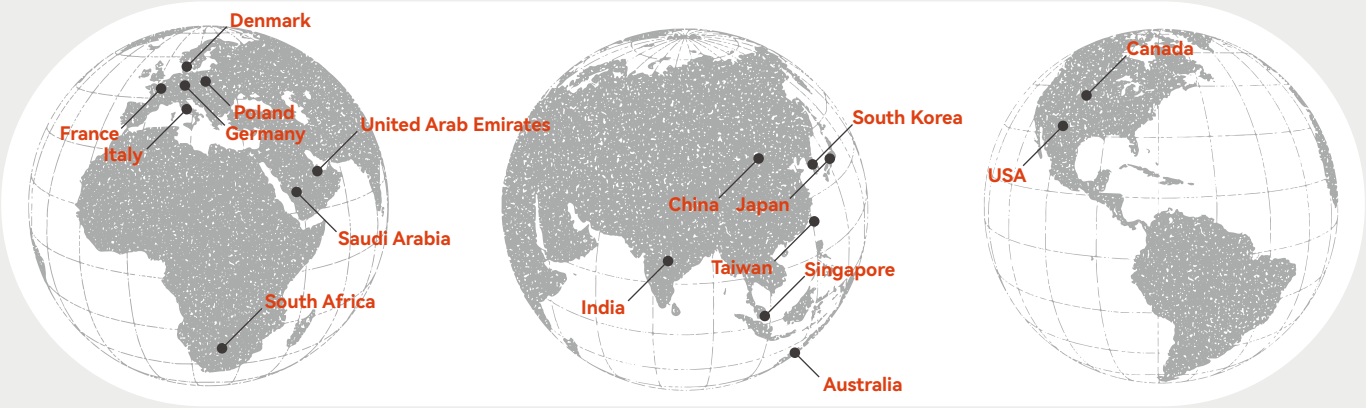
With over 30 years of engineering expertise, AOITEC has become a trusted provider of high-performance actuator technology. As part of AOITEC (GD) Co., Ltd., our team supports a wide range of industries with advanced motion control and automation products. Our in-house R&D team is dedicated to continuous actuator innovation and customization, enabling us to meet evolving application needs with precision and flexibility.

Manufacturing Capabilities

AOITEC operates manufacturing facilities in China and Taiwan with high-volume capacity and strict quality control. Our production setup supports reliable lead times and the flexibility to meet both standard and custom actuator requirements. With dual-site operations, we also provide supply chain resilience and help customers reduce exposure to US-imposed tariffs.

Geographic Presence

AOITEC operates offices in both China and Singapore, with manufacturing facilities in China and Taiwan. We serve clients in over 25 countries including the United States, Japan, Europe, South Korea, and Southeast Asia. Our global footprint ensures local responsiveness and strong distributor partnerships.



Certifications & Standards

All products are manufactured in accordance with ISO9001 and JB/T8219-1999 standards, and certified to CE requirements. Quality and compliance are embedded in every stage of production.

Industries Served

Serving a broad spectrum of sectors including oil and gas, marine, food and beverage, chemical processing, HVAC, power control systems, water treatment, energy, manufacturing, infrastructure, and more.

Innovation & R&D Focus

AOITEC maintains in-house R&D capabilities focused on continuous product innovation. From brushless DC actuators to intelligent modules and supercapacitor fail-safe systems, our engineering team develops solutions that are efficient, durable, and forward-compatible.

Customer Commitment

AOITEC is committed to delivering dependable service, responsive technical support, and solutions tailored to specific application needs. We collaborate closely with integrators, OEMs, consultants, and end users to ensure each actuator system is optimized for its operating environment.

Business Scope

Electric Rotary Actuators

-Available in On/Off and Modulating control, with Rotary or Linear motion configurations.
-Available in a wide torque range with various customisation options and functionalities.

Basic Model

Ulli Series

General duty on-off actuators with torque range from 20Nm to 6000Nm

Digicon Series

General duty modulating actuators with torque range from 20Nm to 6000Nm

Advanced Model

Highspd® Series

5-20x faster than traditional actuators

Explosion-Proof Series

EXD-certified, designed and tested for harsh environments

Brushless DC Actuator

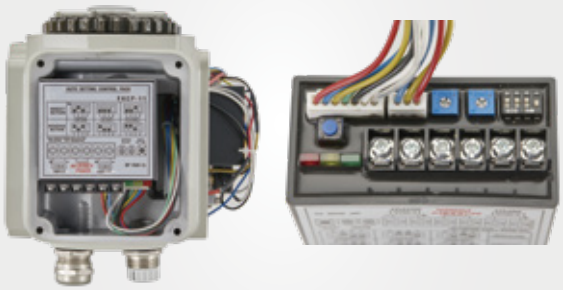
Energy-saving of 20%-60% with 100% duty cycle

SuperCap Failsafe Actuators

Supercapacitor-powered for dependable emergency shutdown

Control Packs and Modules

Auto Setting Control Pack (FACP-11)



Electric Valves

Butterfly Valve

Ball Valve

Why Choose AOITEC

Four Key Product Differentiators

Truly Bracket-Free Ultra-Compact Design

01

Unlike most "direct-mount" actuators, AOITEC fully eliminates internal brackets. ISO 5211 mounting allows direct valve installation, saving space and weight. Lowest height and weight in its class (only 35% of other products), making it ideal for tight or high-maintenance spaces.

Advanced Brushless DC Technology

02

Advanced brushless DC motors enable energy savings of 20%– 60% , significantly reducing operating costs. With no brushes to wear out, it offers longer service life, faster response, and minimal maintenance, making them ideal for frequent start-stop operations.

100% Duty Cycle No Downtime Even Under Heavy Use

03

Our actuators, including AC-supplied models with DC motors, support 100% duty cycle for uninterrupted, high-frequency use, avoiding overheating issues common in 25% duty cycle models.

Competitive Global Pricing

04

Offers premium features and performance at a more accessible price point by optimizing product design, making us significantly more cost-effective than traditional brands like Rotork and Auma.

Our Value Proposition

TRUSTED QUALITY
Proven performance across industries, backed by real-world reliability.

SHORT AND STABLE LEAD TIME
Fast production and delivery to keep your projects on schedule.

TAILORED SOLUTIONS
Custom configurations to fit your exact application needs.

INNOVATIVE DESIGN
We create advanced actuator solutions that evolve with your needs.

DIRECT FACTORY PRICING
No middlemen, offering competitive pricing without added costs.

TECHNICAL SUPPORT
Two-year warranty and fast technical assistance when you need it.

Achievements and Certifications

Business License

CE (Conformité Européenne)

Patents

ECM (Ente Certificazione...

Software Copyright

Trademark Registration Certificate

ISO 9001

Explosion Proof Certificate

IPX8 Test Report

02

Electric Actuators

Introduction

Refined through years of dedicated development and optimization, our electric rotary actuators offer exceptional reliability and durability, making them a trusted choice for a wide range of applications. Our electric rotary actuators are manufactured in accordance with JB/T8219-1999 and certified to CE and ISO 9001 standards, ensuring consistent quality and regulatory compliance. We also hold a portfolio of patents, underscoring our commitment to innovation and excellence. A key advancement is our exclusive bracket-free models, developed to provide a compact, lightweight, stable, and precise design. We proudly offer three specialized series designed to meet diverse operational requirements for modern industrial needs:

Basic Model

- **Ulli Series**
  On/off rotary actuators for general duty designed for robustness and reliability.

- **Digicon Series**
  Modulating rotary actuators for general duty tailored for precise adjustments and control.

Advanced Model

- **Highspeed Series**
  Extreme-speed actuators delivering performance up to 20 times faster than standard models.

- **Brushless DC Series**
  BLDC motor combining high efficiency, 100% duty cycle, extended life and low energy consumption.

- **Explosion Proof Series**
  EXD-certified, designed for harsh envrionments.

- **SuperCap Series**
  Fail-safe actuators powered by supercapacitor technology, ensuring automatic return to a safe position during power loss.

Features and Functionalities for ULLI & DIGICON Series

ulli®

The ulli® series represents the company's on/off actuators

- **Prefix Meaning:**

  "U" stands for "unique," highlighting patented designs.

  "L" for "light" (lightweight) and "long life" (durability).

  "I" for "intelligentize," emphasizing smart features.

- **20NM-6000NM**

digicon®

The digicon® series represents the company's modulating actuators

- **Prefix Meaning:**

  "Digi" stands for "digital" , "Con" for "control.

  "Digicon" symbolizes control technology centered around digital technology.

- **20NM-6000NM**

Features and Functionalities

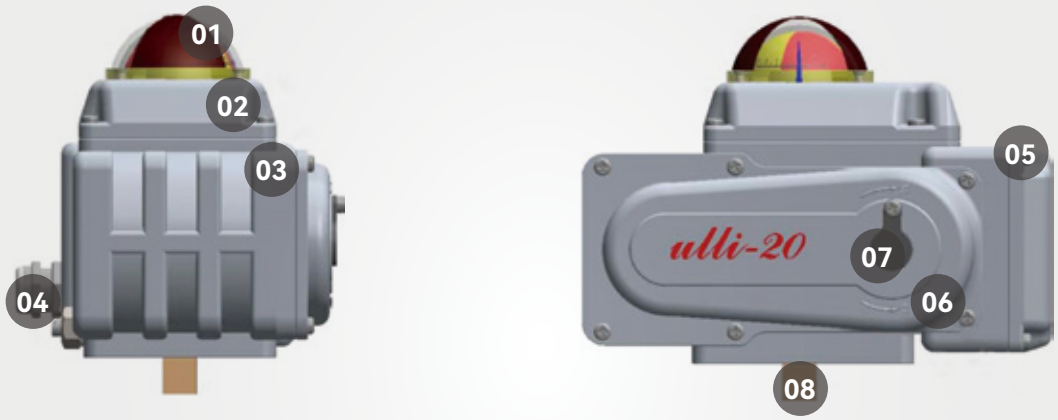
Functionality Performance & Integration

- **Ultra Compact and Lightweight**
  Truly bracket-free - only 35% of the size and weight of products in the same class with ISO 5211 direct mount.
- **Smart Control**
  Built-in smart control module, eliminating the need for external positioners.
- **Customization Options**
  Shaft types, male/female, BLDC motor, overload protection, explosion-proof, emergency shut-off, etc.
- **Versatile Power Option**
  AC220V, AC110V, DC24V, AC24V, AC380V
- **High-Speed Option**
  Full travel time adjustable to 5s, 10s, 15s, 30s, or 60s. Proprietary patented design enables significantly increased speed and minimal heat generation.

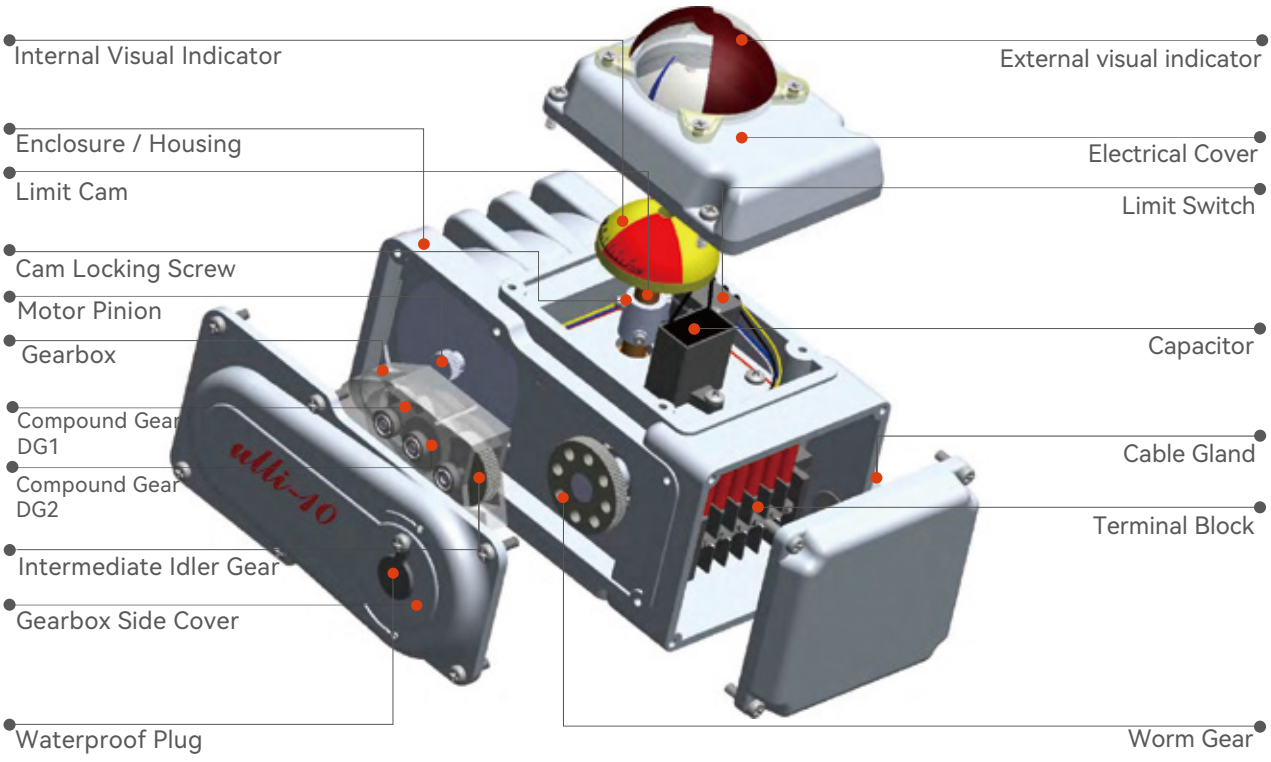
Reliability & Durability

- **Certified Safe**
  Tested with 1500V withstand voltage, F-class insulation, CE compliant.
- **Robust Build**
  Die-cast aluminum housing with a refined, smooth finish to reduce electromagnetic interference. Integrated worm gear output shaft made of specially forged copper alloy, offering high strength and excellent wear resistance.
- **Wide Environmental Compatibility**
  No lubrication or inspection needed. IP68 waterproof, rustproof, and supports angle-free installation.
- **Position Feedback**
  Clear visual indicator for quick status check.

Structure Diagram for ULLI & DIGICON Series



1	Spherical Viewing Window	5	Wiring Cover
2	Electrical Cover	6	Gear Reduction Cover
3	Housing/Body	7	Handle or Handwheel Opening Plug
4	Cable Fixing Head	8	Output Shaft or Output Hole



Structure Diagram for ULLI & DIGICON Series

Front View

Spherical viewing window
Allows for horizontal observation of the open/closed state from distance

Electrical cover
Various electrical components built in

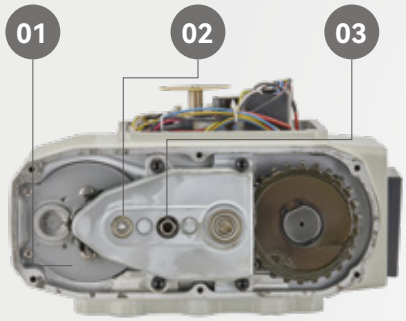
Wiring Cover
Users open this cover to connect wires

Gear reduction cover
contains a gearbox inside

Manual Override Port with Anti-Drop Feature
For attaching a handle or installing a handwheel

Stainless steel anti-drop screws
A handle or handwheel can be installed here

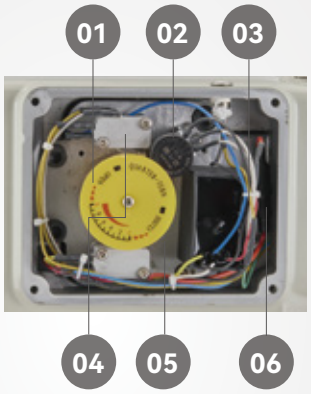
Detailed diagrams



01 Motor Cover
contains an F-class high-temperature-resistant motor

02 Fully Rolling Bearings
Designed for Permanent Durability

03 Manual Operation Port
Standardized dimensions for compatibility



02 Japanese Potentiometer
High precision and wear resistance

01 Indicator Dial
(Opening Plate): Ball/flat

03 Internal Wiring
High-temperature resistant and anti-aging wiring for durability

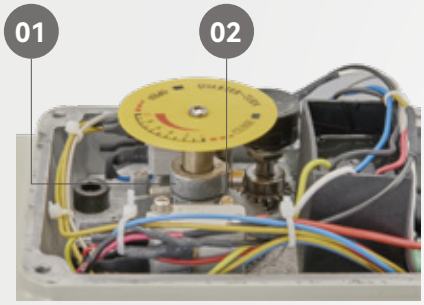
05 Electrical Limit Cam
Located below the indicator dial adjustable for open/close angles or signal output points.

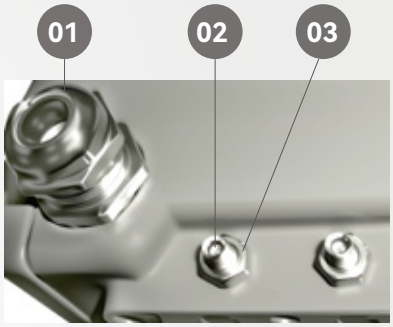
06 Capacitor
Long lifespan with high-temperature resistance

04 OMRON Micro Switch
Electrical limit position switch for precision control

Structure Diagram for ULLI & DIGICON Series

Detailed diagrams





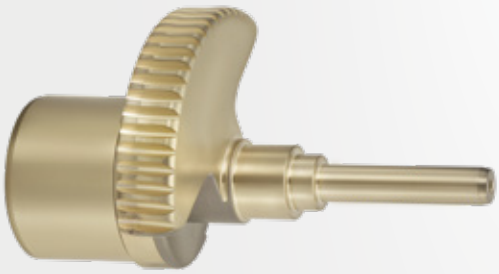
01 **Electrical Limit Cam**
Located below the indicator dial and adjustable for open/close angles or signal output points

02 **Electrical Limit Cam Fixing Screw**
Loosen to adjust cam angles for fine-tuning

01 **Brass Cable Gland**
High strength, fully sealed and non-aging

02 **Limit Screw**
Mechanical limit adjustment screw

03 **Locknut**
Locks in place after mechanical limit adjustment

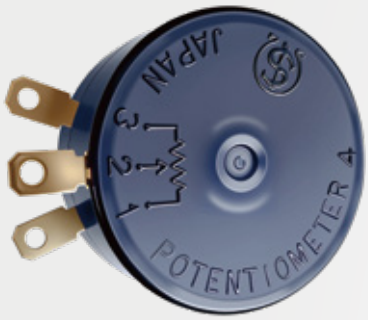


Specially Designed Integrated Output Shaft
Integrates five positions into one, providing greater reliability and reducing gaps

Dome Position Indicator with Color Coding
Displays open/close status from a distance without needing to climb up and complies with IP68 protection standards

Structure Diagram for ULLI & DIGICON Series

Detailed diagrams



Potentiometer

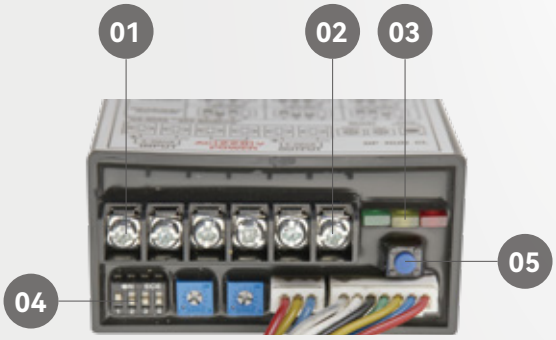
Japanese brand, precision-made, and highly durable

Patented Terminal Block Design

Patented with highstrength, one-piece casting and terminal numbering, ensuring correct wiring indication.

Handwheel with Clutch (Optional)

Unique design with a standardized size, compatible with our entire actuator series



01 **Intelligent Control Module (Optional)**
High reliability, supports large currents, and offers high precision

05 **Automatic Calibration Button**
Simplifies configuration and system calibration

02 **Reinforced Stainless Steel Terminals**
Durable and corrosion-resistant terminal connectors

04 **Mode Selection Switch**
Allows easy switching between operation modes

03 **Status or Fault Indicator**
Clear status feedback for system monitoring

Data Sheet for ULLI Series

Ulli Series (On-Off Rotary)

Model	Power Supply	Torque (NM)	Stroke Time for 50Hz (Sec)	Motor Power (In/Out)	220VAC Start Current	220VAC Rated Current	Weight (kg)	IP CLASS
ulli-2	AC24V AC220V AC110V	20	30	15W/5W	0.12A	0.12A	1.8	IP68
ulli-5	AC380V AC/DC24V AC220V AC110V	50	30	30W/10W	0.25A	0.25A	2.6	IP68
ulli-10	AC380V AC/DC24V AC220V AC110V	100	30	80W/23W	0.58A	0.5A	3.7	IP68
ulli-16	AC380V AC/DC24V AC220V AC110V	160	30	100W/30W	0.72A	0.6A	3.7	IP68
ulli-20	AC380V AC/DC24V AC220V AC110V	200	30	100W/30W	0.72A	0.68A	3.7	IP68
ulli-25	AC380V AC/DC24V AC220V AC110V	250	30	150W/90W	0.69A	0.6A	7.5	IP68
ulli-50	AC380V AC/DC24V AC220V AC110V	500	30	300W/90W	1.38A	1.2A	8	IP68
ulli-60	AC380V AC/DC24V AC220V AC110V	600	30	300W/90W	1.38A	1.2A	8	IP68
ulli-100	AC380V AC/DC24V AC220V AC110V	1000	50	300W/90W	1.38A	1.2A	13	IP68
ulli-200	AC380V AC/DC24V AC220V AC110V	2000	100	300W/90W	1.38A	1.2A	13	IP68
ulli-400	AC380V AC/DC24V AC220V AC110V	4000	150	500W/150W	2.3A	2.0A	31	IP68
ulli-600	AC380V AC/DC24V AC220V AC110V	6000	150	500W/150W	2.3A	2.0A	31	IP68

Data Sheet for ULLI Series

Model Variations

- **ulli-xxs**
  Four-position switch signal feedback (dry contact or LED)

- **ulli-xxR**
  Potentiometer (resistive) position feedback

ulli-xxEX
Explosion-proof design

- **ulli-xxw**
  Wireless remote control with RS-485 Bus Control

ulli-xxt
Electronic bidirectional overload protection

- **ulli-xxCB**
  Super capacitator failsafe function

ulli-Lxx
Linear actuator with position indicator light

Other specifications (applicable for all models)

Materials

Mounting/Shaft: Copper Alloy

Cover: Diecast aluminum alloy

Base: Diecast aluminum alloy

Cover & Base Finish: Powder coated epoxy

ISO 5211 Direct Mount Connections

Flange: F05 / F07 / F10 / F12 / F14 / F16 / F25

Drive shaft: Female or Male drive shaft

Temperature Range

-40°C (space heater required) to 55°C

-40°F (space heater required) to 131°F

Enclosure Rating

IP68

Electrical Connection

PF1/2″ conduit

Duty Cycle

xxx-05, xxx-10: 80%

xxx-25: ~60%

xxx-50 to xxx-200: ~50%

(Above ratings apply to AC motors)

All DC motor models: 100% continuous duty

Lubrication

Molybdenum-based grease, permanent and effective

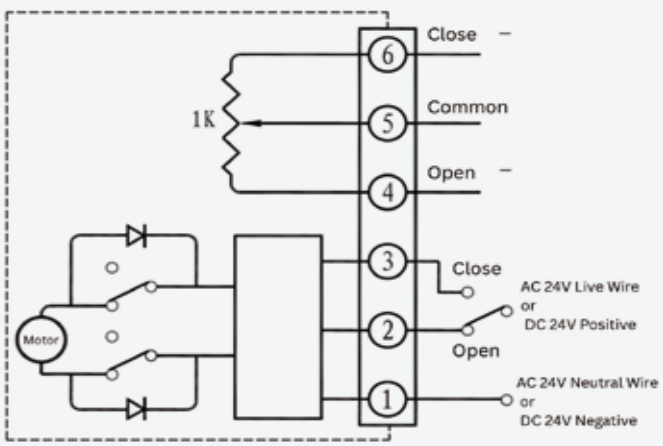
AC24V / DC24V Dual Voltage Actuator

The AC24V/DC24V universal actuator utilizes our proprietary "function block" design (as shown in the diagram) to achieve dual-voltage compatibility. When using AC24V, the wiring method is exactly the same as for our standard AC models. If using DC24V, connect the negative terminal to terminal 1 and switch the positive polarity between terminals 2 and 3 to control rotation direction.

Model Specification Table (AC/DC 24V Universal Models)

Model	Power Supply	Torque (NM)	Stroke Time for 50Hz (Sec)	Motor Power (In/Out)	Locked-Rotor Current (A)	Working Current (A)	Weight (kg)	IP CLASS
ulli-5	AC/DC 24V	50	6	15W / 5W	0.6	0.3	2.6	IP68
ulli-10	AC/DC 24V	100	12	15W / 5W	1.0	0.6	3.7	IP68
ulli-25	AC/DC 24V	250	11	90W / 30W	3.0	1.5	7.5	IP68
ulli-50	AC/DC 24V	500	22	90W / 30W	3.0	1.5	8	IP68
ulli-100	AC/DC 24V	1000	45	90W / 30W	6.0	2.5	12	IP68
ulli-200	AC/DC 24V	2000	100	300W / 90W	6.0	2.5	12	IP68
ulli-400	AC/DC 24V	4000	100	500W / 150W	10.0	5.0	31	IP68
ulli-600	AC/DC 24V	6000	150	500W / 150W	10.0	5.0	31	IP68

AC/DC 24V Power Supply Universal Circuit Diagram



Data Sheet for DIGICON Series

The Digicon Series offers general-duty electric rotary actuators with reliable modulating control and torque output from 50Nm to 6000Nm.

Digicon Series (Modulating Rotary)

Model	Power Supply	Torque (NM)	Stroke Time for 50Hz (Sec)	Motor Power (In/Out)	Input Signal	Output Signal	Weight (kg)	IP CLASS
dogicon-5	DC24V AC24V AC220V AC110V	50	30	30W/10W	4-20mA 0-10V	4-20mA 0-10V	3	IP68
digicon-10	DC24V AC24V AC220V AC110V	100	30	80W/23W	4-20mA 0-10V	4-20mA 0-10V	4.5	IP68
digicon-25	DC24V AC24V AC220V AC110V	250	30	150W/45W	4-20mA 0-10V	4-20mA 0-10V	7.5	IP68
digicon-50	DC24V AC24V AC220V AC110V	500	30	300W/90W	4-20mA 0-10V	4-20mA 0-10V	8.7	IP68
digicon-100	DC24V AC24V AC220V AC110V	1000	50	300W/90W	4-20mA 0-10V	4-20mA 0-10V	12.8	IP68
digicon-200	AC220V AC110V	2000	100	300W/90W	4-20mA 0-10V	4-20mA 0-10V	12.8	IP68
digicon-400	AC220V AC110V	4000	150	500W/150W	4-20mA 0-10V	4-20mA 0-10V	32	IP68
digicon-600	AC220V AC110V	6000	150	500W/150W	4-20mA 0-10V	4-20mA 0-10V	32	IP68

Note

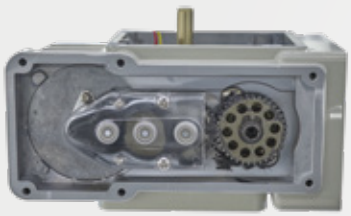
- All parameters are not limited to the datasheet. Parameters such as torque, stroke time, inner bore dimensions, and other key metrics can be customized to meet specific application requirements.

- Digicon-Lxx: Linear option with position indicator light.

Explosion-Proof Series

Explosion-proof Certification: EX d II BT4

- Certified as explosion-proof with a conformity certificate accredited by CNAS
- Withstood extensive testing experience in harsh environments
- Internationally certified electronic control module



Standard model

Explosion-proof

Reinforced for Safety

Standard Actuator vs Explosion-Proof

Explosion-proof actuator features a much thicker housing for superior durability and protection in hazardous environments.

SPECIFICATIONS

Explosion Proof Actuator

Model	Power Supply	Torque (NM)	Stroke Time for 50Hz (Sec)	Motor F Class In/Out	220VAC Start Current	220VAC Rated Current	Weight (kg)	IP CLASS
ulli-10EX	AC380V AC/DC 24V AC/DC 220V AC110V	100	30	80W/23W	0.58A	0.5A	10	IP68
ulli-16EX	AC380V AC/DC 24V AC/DC 220V AC110V	160	30	110W/30W	0.72A	0.68A	10	IP68
ulli-25EX	AC380V AC/DC 24V AC/DC 220V AC110V	250	30	150W/45W	0.86A	0.8A	10	IP68
ulli-50EX	AC380V AC/DC 24V AC/DC 220V AC110V	500	30	300W/90W	1.38A	1.2A	10	IP68
ulli-60EX	AC380V AC/DC 24V AC/DC 220V AC110V	600	30	300W/90W	1.38A	1.2A	10	IP68
digicon-10EX	AC380V AC/DC 24V AC 220V AC110V	100	30	80W/23W	Input signal 4-20mA 0-10V	Output signal 4-20mA	11	IP68
digicon-16EX	AC380V AC/DC 24V AC 220V AC110V	160	30	80W/23W	Input signal 4-20mA 0-10V	Output signal 4-20mA	11	IP68
digicon-25EX	AC380V AC/DC 24V AC 220V AC110V	250	30	150W/45W	Input signal 4-20mA 0-10V	Output signal 4-20mA	11	IP68
digicon-50EX	AC380V AC/DC 24V AC 220V AC110V	500	30	300W/90W	Input signal 4-20mA 0-10V	Output signal 4-20mA	11	IP68
digicon-60EX	AC380V AC/DC 24V AC 220V AC110V	600	30	300W/90W	Input signal 4-20mA 0-10V	Output signal 4-20mA	11	IP68

High Speed Series

Patented Technology

High-speed

Soft-start

Stall Protection

Travel time ranges from 2 to 5 seconds, achieving speeds 5 to 20 times faster than traditional actuators, earning it the title of an ultra-fast actuator

Suitable for scenarios where solenoid valves are used but offers greater reliability, a wider range of applications, and compatibility with larger calibres.

Surpasses pneumatic actuators in speed while eliminating the need for an air supply, providing a solution that is more convenient, lightweight, and cost-effective.

The wiring method is identical to that of a single-phase AC actuator, ensuring full compatibility and easy replacement.

This technology significantly reduces the travel time of high-torque actuators. For instance, the Highspd-200 model accelerates from 100 seconds to just 15 seconds, greatly enhancing operational efficiency.

Data Sheet for High Speed Series

Delivers high speed and stability with exceptional precision and efficiency, supported by a 100% duty cycle for continuous operation.

Model	Power Supply	Torque (Nm)	Stroke Time (sec)	Motor (In/Out)	Weight (kg)	Compatible Valve (DN Reference)
highspd-5	AC220V / AC110V	50	2.5	100W / 50W	2.5	25–100
highspd-10	AC220V / AC110V	100	5	100W / 50W	3.5	80–150
highspd-25	AC220V / AC110V	250	5	200W / 100W	7.3	150–200
highspd-50	AC220V / AC110V	500	9	200W / 100W	7.3	200–300
highspd-100	AC220V / AC110V	1000	20	200W / 100W	11.5	300–400
highspd-200	AC220V / AC110V	2000	30	300W / 150W	11.8	400–500
highspd-400	AC220V / AC110V	4000	50	380W / 190W	30	600–700
highspd-600	AC220V / AC110V	6000	50	380W / 190W	30	800–1000
hidigico-5	AC220V / AC110V	50	10	100W / 50W	2.5	25–100
hidigico-10	AC220V / AC110V	100	10	100W / 50W	3.5	80–150
hidigico-25	AC220V / AC110V	250	10	200W / 100W	7.3	150–200
hidigico-50	AC220V / AC110V	500	15	200W / 100W	7.3	200–300
hidigico-100	AC220V / AC110V	1000	35	200W / 100W	11.5	300–400
hidigico-200	AC220V / AC110V	2000	50	300W / 150W	11.5	400–500
hidigico-400	AC220V / AC110V	4000	50	380W /190W	30	600–700
hidigico-600	AC220V / AC110V	6000	50	380W / 190W	30	800–1000

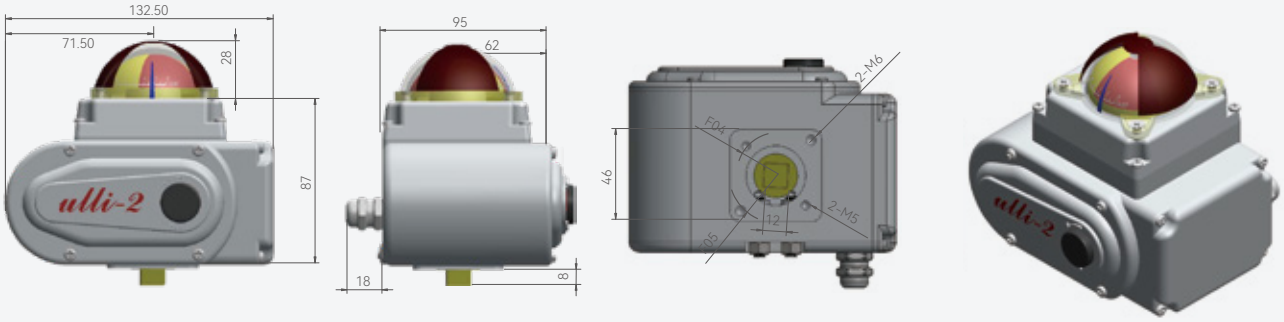
Data Sheet for Linear Option

Our Ulli-L and Digicon-L Series offers high-performance electric linear actuators from 50kgf to 2000kgf.

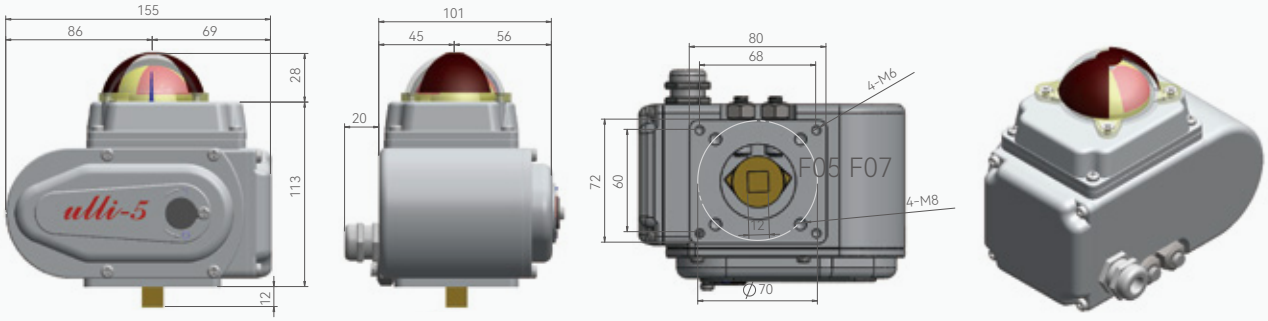
Model	Power Supply	Thrust (kgf)	Stroke	Stroke time for 50Hz (sec)	IP grade	Motor (in/out)	220V start current	220V rated current	Weight (kg)	Control Signal
ulli-L5	AC24V	50	20	60	IP65	20W/6W	0.8A,24V	0.7A,24V	1.2	
ulli-L10	AC24V	100	20	60	IP65	20W/6W	0.8A,24V	0.7A,24V	1.2	
ulli-L25	AC24V AC220V 110V	250	40	25/50	IP65	80W/23W	0.58A,220V 3.5A,24V	0.62A,220V 3.8A,24V	3.5	
ulli-L35	AC24V AC220V 110V	350	40	25/50	IP65	80W/23W	0.58A,220V 3.5A,24V	0.62A,220V 3.8A,24V	3.5	
ulli-L50	AC24V AC220V 110V	500	40	50	IP65	80W/23W	0.58A,220V 3.5A,24V	0.62A,220V 3.8A,24V	3.5	
ulli-L70	AC24V AC220V 110V	700	40	50	IP65	80W/23W	0.58A,220V 3.5A,24V	0.62A,220V 3.8A,24V	3.5	
ulli-L120	AC24V AC220V 110V	1200	80	50	IP65	200W//60W	0.9A,220V 5.3A,24V	0.95A,220V 5.8A,24V	7.8	
ulli-L200	AC24V AC220V 110V	2000	80	50	IP65	300W /90W	1.2A,220V	1.3A,220V	7.8	
digicon-L5	AC24V	50	20	60	IP65	20W/6W	0.8A,24V	0.7A,24V	1.3	0-10V 4-20mA
digicon-L10	AC24V	100	20	60	IP65	20W/6W	0.8A,24V	0.7A,24V	1.3	0-10V 4-20mA
digicon-L25	AC24V AC220V 110V	250	40	25	IP65	80W/23W	0.58A,220V 3.5A,24V	0.62A,220V 3.8A,24V	4	0-10V 4-20mA
digicon-L50	AC24V AC220V 110V	500	40	50	IP65	80W/23W	0.58A,220V 3.5A,24V	0.62A,220V 3.8A,24V	4	0-10V 4-20mA
digicon-L120	AC24V AC220V 110V	1200	60	60	IP65	200W /60W	0.9A,220V 5.3A,24V	0.95A,220V 5.8A,24V	7.8	0-10V 4-20mA
digicon-L200	AC24V AC220V 110V	2000	60	120	IP65	300W/90W	1.2A,220V	1.3A,220V	7.8	0-10V 4-20mA

Dimensioned Drawings for ULLI & DIGICON Series - Male Type

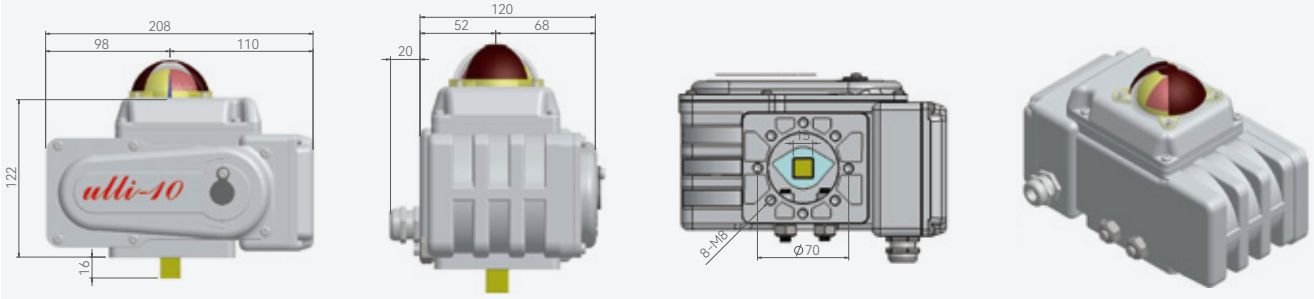
ulli-2



ulli-5 & digicon-5

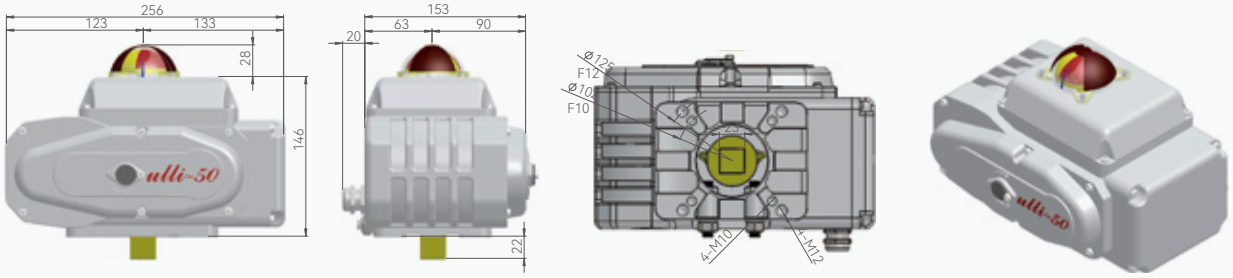


ulli-10 & digicon-10



Dimensioned Drawings for ULLI & DIGICON Series - Male Type

ulli-25/50 & digicon-25/50



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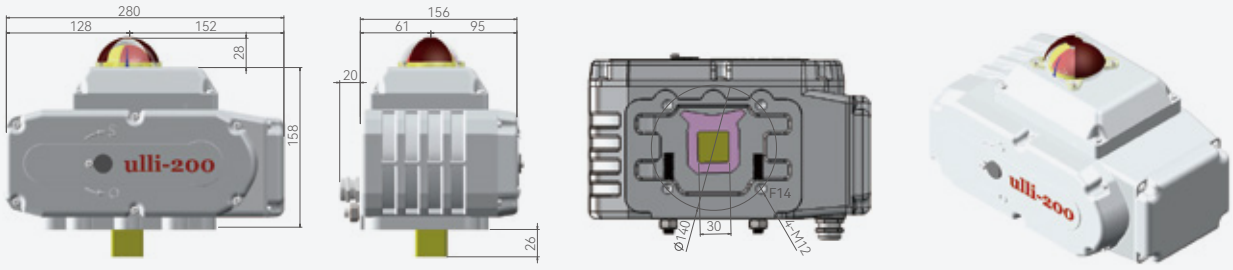
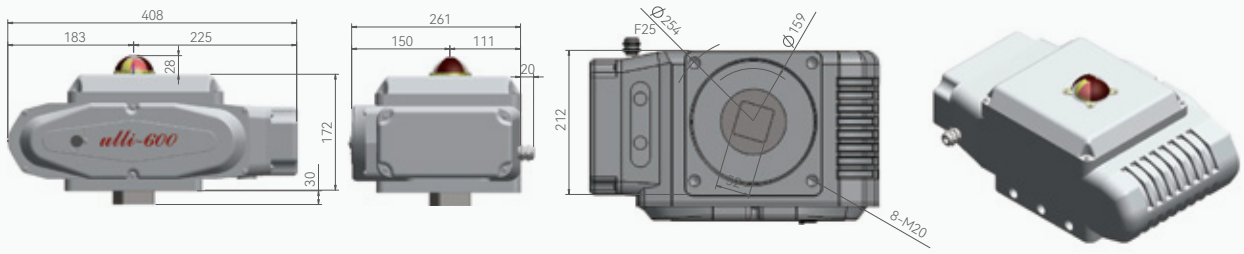
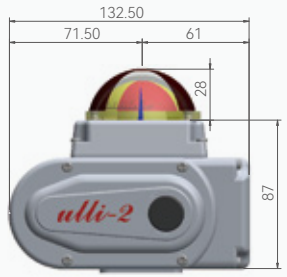


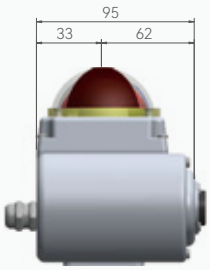
ulli-400/600 & digicon-400/600

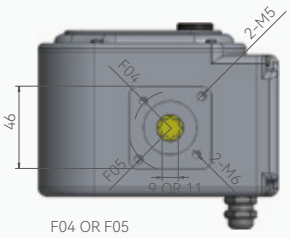


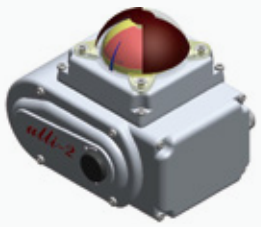
Dimensioned Drawings for ULLI & DIGICON Series - Female Type

ulli-2

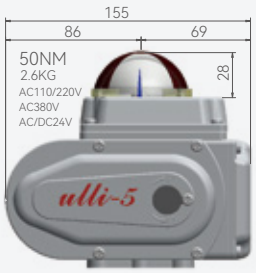


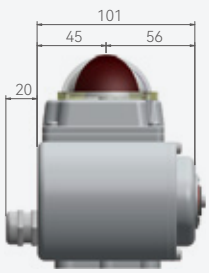


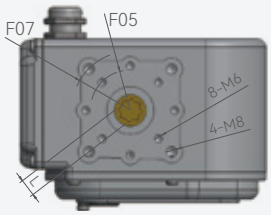


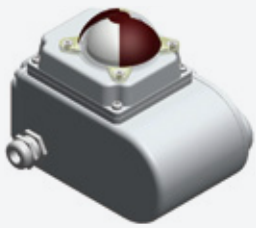


ulli-5

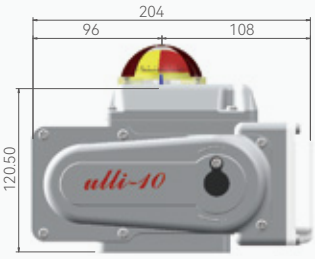


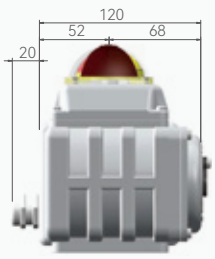


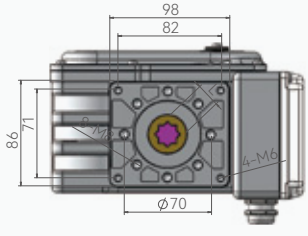




ulli-10 & digicon-10

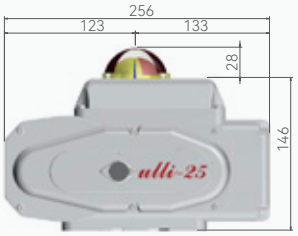


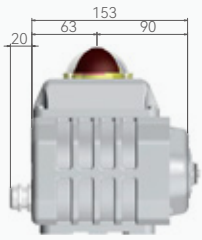


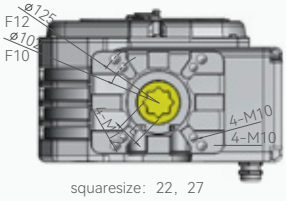


Dimensioned Drawings for ULLI & DIGICON Series - Female Type

ulli-25/50 & digicon-25/50







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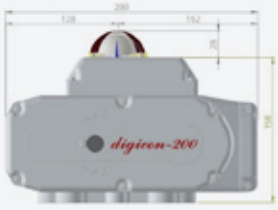
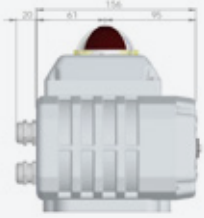
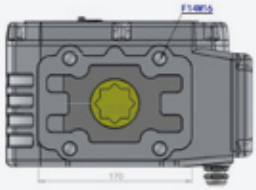
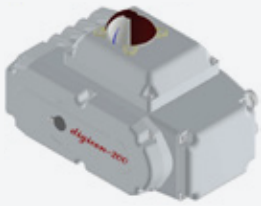
ulli-100/200 & digicon-100/200

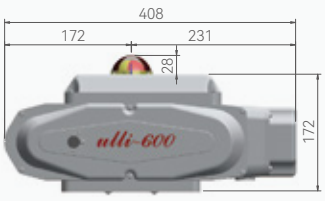


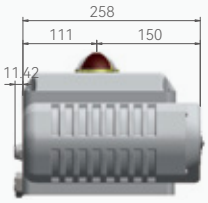


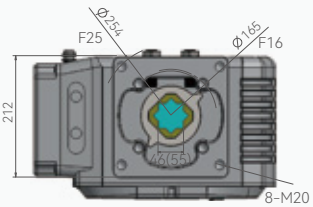




ulli-400/600 digicon-400/600

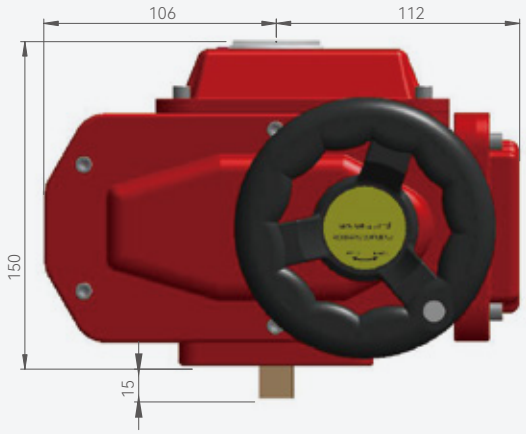


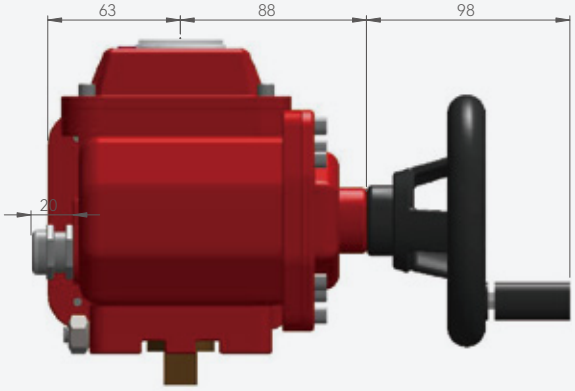


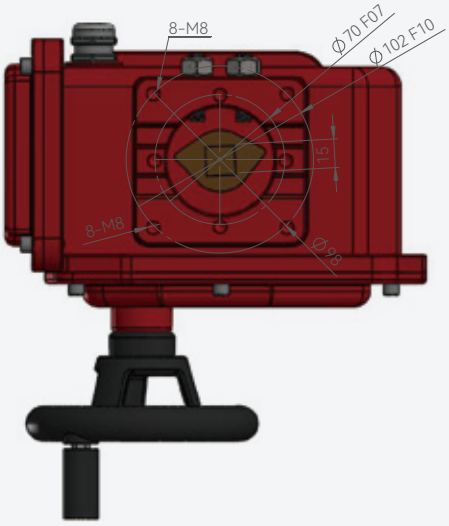


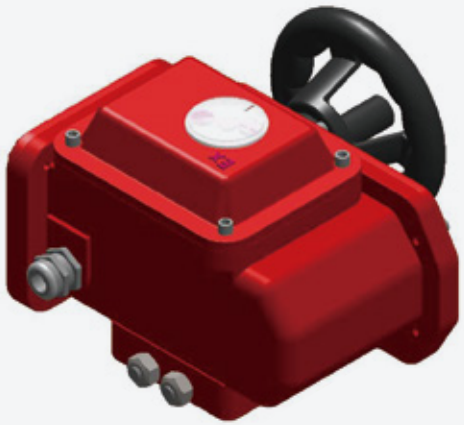
Dimensioned Drawings for Explosion-Proof Series

ulli-06/16EX digicon-06/16EX



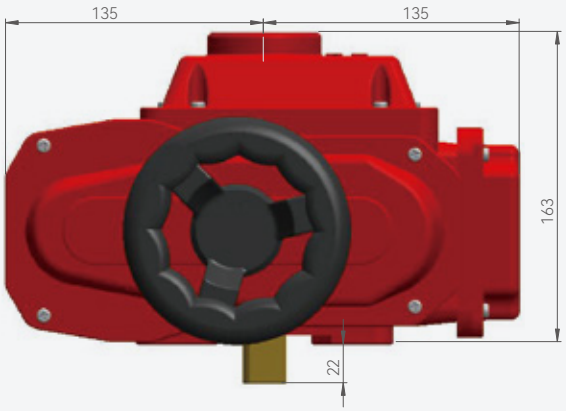


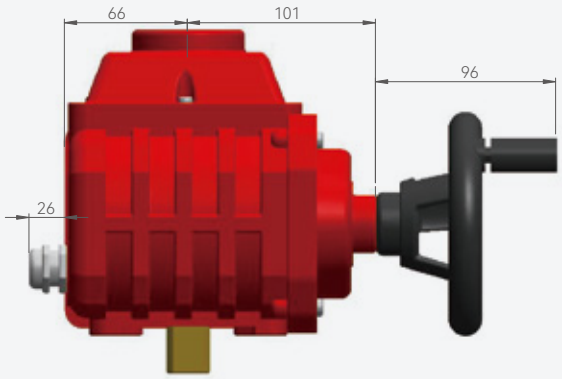


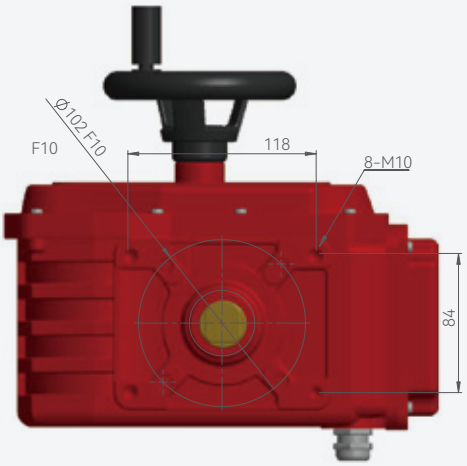


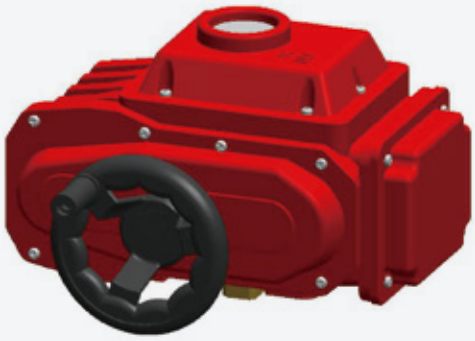
Dimensioned Drawings for Explosion-Proof Series

ulli-25/50EX digicon-25/50EX



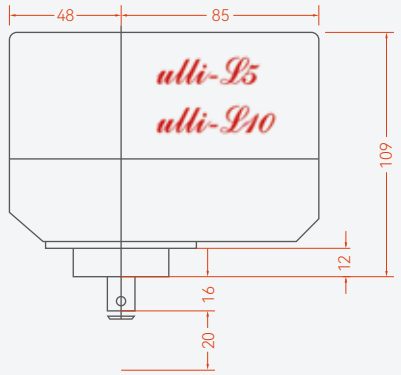


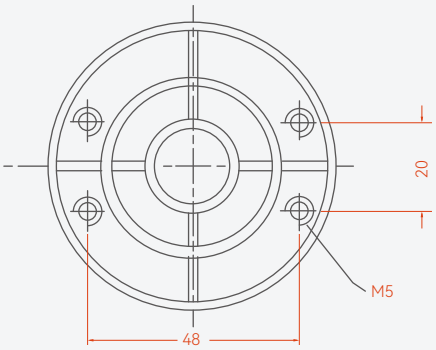




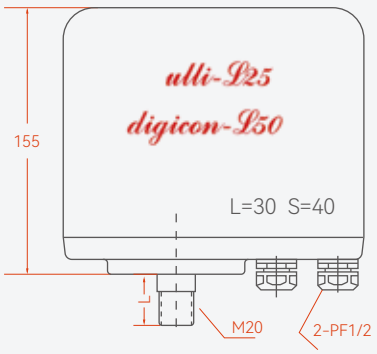
Dimension Drawing for Linear Option

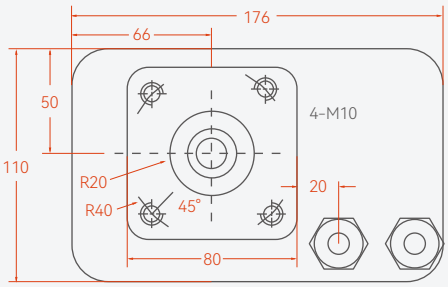
ulli-L5/L10 digicon-L5/L10



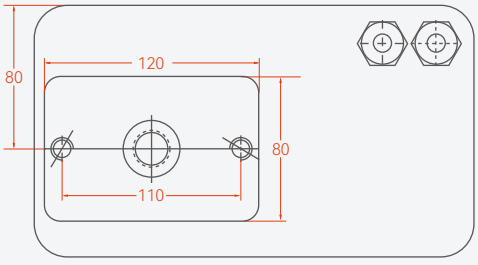


ulli-L25/L50 digicon-L25/L50

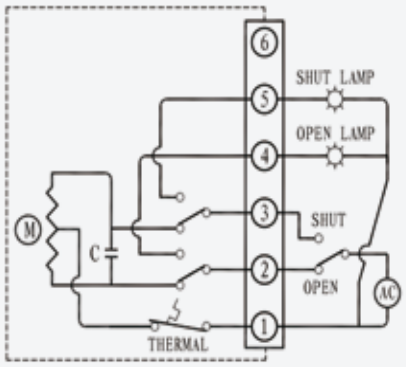




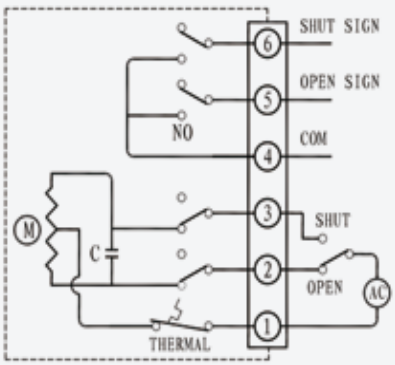
ulli-L100/L200 digicon-L100/L200



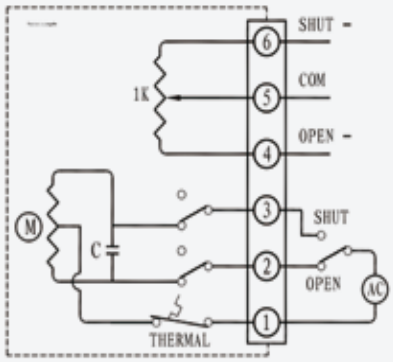
Wiring diagrams



ulli-xx connection(std)



ulli-xxS connection



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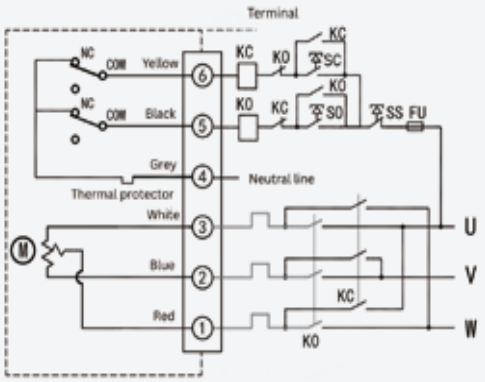

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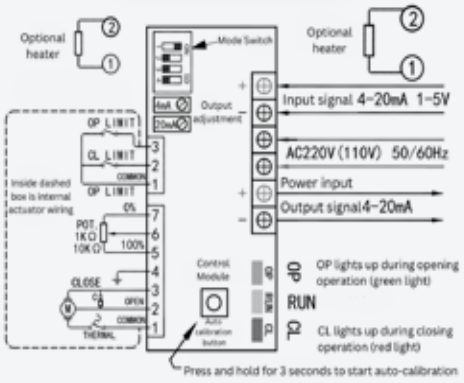
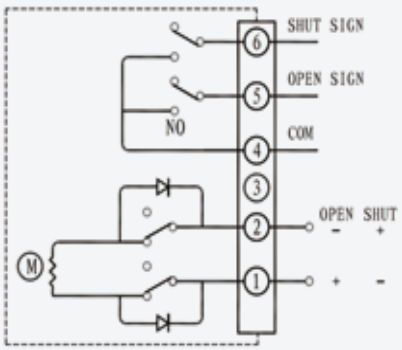


Digicon Connection



DC power connection

Note

-Do not connect the power supply lines of multiple electric actuators in parallel. In other words, a single control contact point must not be used to operate multiple actuators simultaneously. Doing so may result in loss of control and motor overheating, which may cause control failure or motor overheating.

-The wiring shown within the dashed box represents the internal circuitry of the electric actuator. Wiring outside the dashed area is for user reference only when planning external connections.

BLDC Actuator

Key Advantages of AOITEC BLDC Actuators

- **High Energy Efficiency Ratio**
  Achieves energy savings of 20%–60%, offering significant cost reductions over long-term operation.

- **100% Duty Cycle with Minimal Heat**
  Designed to generate less heat, enabling uninterrupted operation without the need for overheating protection mechanisms.

- **Overload Protection**
  Equipped with advanced overload protection to ensure the safety and longevity of both the actuator and the valve.

- **Multi-Power Source Compatibility**
  Supports a wide range of input voltages: DC12V, DC24V, AC24V, AC110V, and AC220V, providing flexibility for diverse applications.

- **Extended Lifespan**
  Brushless motor technology, combined with low heat output, results in superior durability and reliability.

- **Low Current Models**
  Capable of producing low-current, low-speed models that reduce line losses and decrease the electrical burden, enhancing overall system reliability.

- **Compact and Lightweight Design**
  Smaller size and reduced weight make transportation more cost-effective and installation easier.

- **Improved Safety**
  Unlike traditional DC motors, BLDC actuators eliminate sparks, and compared to AC motors, they generate less heat, ensuring safer operation.

- **Ease of Maintenance**
  DC motors are easier to replace and maintain compared to AC motors, reducing downtime and maintenance costs.

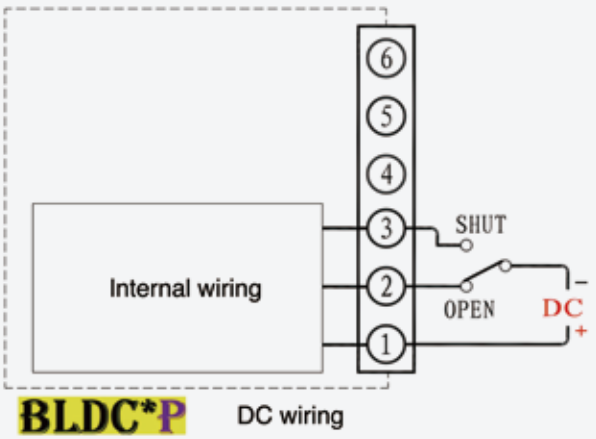
- **Enhanced Waterproofing**
  The motor is suspended in the hollow section of the actuator, preventing water ingress even in the presence of minor internal condensation, effectively improving the waterproof performance.

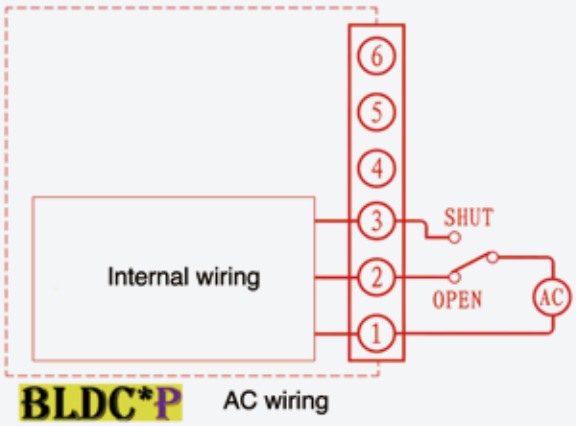
Diagram

BLDC Motor
Equipped with overcurrent protection, blockage protection, and overheating protection.

BLDC Module
Provides a wide voltage power supply and is recognized internationally for stable and reliable operation.

Wiring





Data Sheet for BLDC Actuator

Model	Power Supply	Torque (Nm)	Stroke Time (sec)	BLDC Motor Power (W)	Rated Current(A)/ Control Input	Stall Current(A)/ Feedback Ouput	Weight (kg)	IP Level
BLDC*P-2	DC24V only	20	5	3.6	0.15	0.8	1.5	IP68
BLDC*P-5	DC24V, AC24V AC80-260V	50	10	5	0.25	0.8	2.3	IP68
BLDC*P-10	DC24V, AC24V AC80-260V	100	30	11	0.5	1.5	3.3	IP68
BLDC*P-20	DC24V, AC24V AC80-260V	200	30	20	0.8	2	3.5	IP68
BLDC*P-40	DC24V, AC24V AC80-260V	400	30	30	1.2	2	7.2	IP68
BLDC*P-60	DC24V, AC24V AC80-260V	600	60	30	1.2	2	7.2	IP68
BLDC*P-100	DC24V, AC24V AC80-260V	1000	50	48	2	5	12	IP68
BLDC*P-200	DC24V, AC24V AC80-260V	2000	100	48	2	5	12	IP68
BLDC*P-400	DC24V, AC24V AC80-260V	4000	100	100	4	8	30	IP68
BLDC*P-600	DC24V, AC24V AC80-260V	6000	150	100	4	8	30	IP68
BLDC*M-5	DC24V only	50	20	5	4-20mA	4-20mA	2.6	IP68
BLDC*M-10	DC24V, AC24V AC80-260V	100	56	9.6	4-20mA	4-20mA	3.6	IP68
BLDC*M-20	DC24V, AC24V AC80-260V	200	50	20	4-20mA	4-20mA	3.7	IP68
BLDC*M-40	DC24V, AC24V AC80-260V	400	50	20	4-20mA	4-20mA	7.6	IP68
BLDC*M-60	DC24V, AC24V AC80-260V	600	150	20	4-20mA	4-20mA	7.6	IP68
BLDC*M-100	DC24V, AC24V AC80-260V	1000	50	48	4-20mA	4-20mA	12.5	IP68
BLDC*M-200	DC24V, AC24V AC80-260V	2000	100	48	4-20mA	4-20mA	12.5	IP68
BLDC*M-400	DC24V, AC24V AC80-260V	4000	100	100	4-20mA	4-20mA	30.5	IP68
BLDC*M-600	DC24V, AC24V AC80-260V	6000	150	100	4-20mA	4-20mA	30.5	IP68

Note

- BLDC*P refers to a 2-position actuator, designed for on-off operation.

- BLDC*M refers to a modulating actuator, designed for precise regulation.

SuperCap Return Actuators

Key Features of AOITEC Supercapacitor Return Actuator

Supercapacitor Energy Storage
Stores energy using supercapacitors for reliable operation without overcharge or over-discharge risks, delivering extended lifespan and high cycle durability

Automatic Reset on Power Loss
In case of sudden power outage, the actuator auto-opens or closes the valve as preset, protecting personnel and property

Bistable Operation
Operates valves 2–5 times faster than conventional actuators for quick opening and closing

DC Brushless Motor
High-efficiency brushless motor offers long life, zero maintenance, and superior reliability

Wide Torque Range and Voltage Compatibility
Available in a variety of options, supporting AC18V to AC260V power input and torque ranges from 50NM to 6000NM

Stable Torque, Compact Design
Compared to spring-return types, offers steadier torque in a smaller size

Standby Power as Low as 3W
Consumes just 3W at rest. Energy-saving and eco-friendly, ideal for long-term operation.

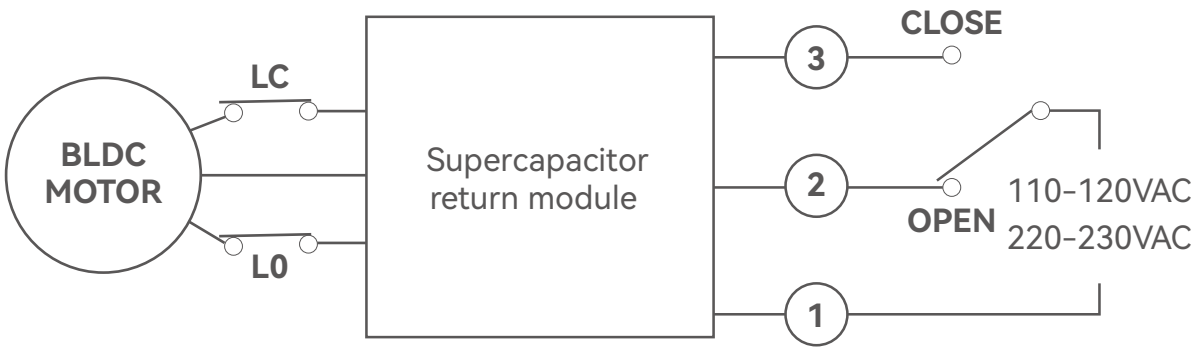
Data Sheet for SuperCap Return Actuator

Instructions and Reminders for Use

Wiring Setup:

The wiring method remains consistent with the configuration below, ensuring ease of installation.

Model	Torque (Nm)	Torque (in-lb)	Time (sec)	Weight (kg)	Compatible Ball Valve (mm)	Compatible Butterfly Valve (mm)
SCRET-05	50	442	6	5	15–40	50–80
SCRET-10	100	885	10	5	50–65	50–125
SCRET-25	250	2212	20	10	65–80	150–200
SCRET-50	500	4425	30	12	80–100	200–250
SCRET-100	1000	8850	50	12	125–150	300–400
SCRET-200	2000	17700	100	12	150–200	400–500



Special Notes

- On initial power-up after wiring, operation may take several seconds—this is normal, not a malfunction.
- Customers can choose between two power outage modes when placing an order.

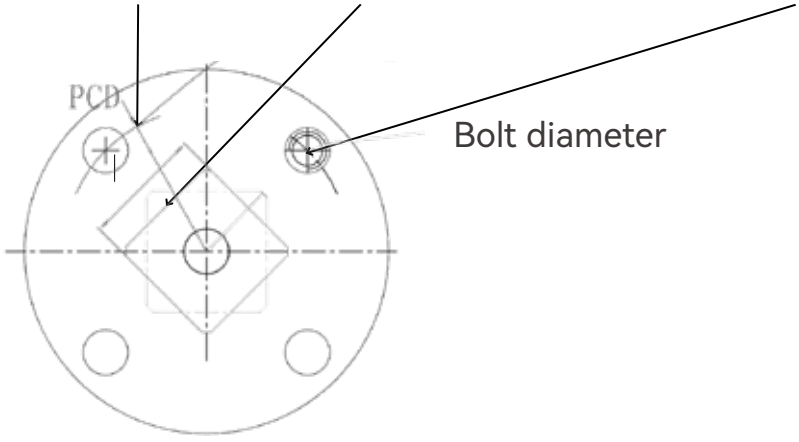
  Default Option: Valve closes during a power outage.

  Alternate Option: Valve opens during a power outage.

Direct Mounted Dimensions for Butterfly Valve

Recommended Butterfly Valve Mounting Dimensions for Direct (bracket-free) Installation

Electric Actuator Model	Compatible Butterfly Valves (For Reference Only)	Referenced Flange Standard	Flange Hole Pattern Diameter PCD (Any One)	Recommended Valve Stem Square Dimensions and Extension Length	Recommended Chamfered Circular Diameter	Screw Thread Diameter
ulli-2	25-50	F05/F03	D50/D36	9*9 Height:10-15	No restrictions	M6/M5
ulli-5	50-80	F07/F05	D70	11*11Height:10-20	No restrictions	M8/M6
ulli-10	100	F07	D70	14*14 Height: 15-25	No restrictions	M8
ulli-16	125-150	F07	D70	17*17 Height:15-25	≤ Φ22	M8
ulli-25	200	F12/F10	D125/D102	22*22 Height:20-30	≤ Φ30	M12/M10
ulli-50	250	F12/F10	D125/D102	27*27 Height:25-40	≤ Φ36	M12/M10
ulli-100	300-400	F14	D140	27*27 Height:25-40	≤ Φ37.6	M12
ulli-200	400-500	F14	D140	36*36 Height:30-40	≤ Φ48	M12
ulli-400	600-700	F25	D254	38*38 Height:35-50	≤ Φ75	M20
ulli-600	800	F25	D254	46*46 Height:35-50	≤ Φ75	M20
ulli-600	900-1000	F25	D254	55*55 Height:35-50	≤ Φ75	M20



Options and Add-Ons

1	Viewing Window Type	 Flat Viewing Window  Spherical Viewing Window	Free
2	Female OR Male Type	• Female(recessed connection) – more compact, smaller diameter, high precision • Male (protruding connection) – Taller height, larger diameter, more flexible installation	Free
3	Outer Cover Colour	 Black  Blue  Gray	Free
4	Output Shaft Types	• Four-Square Output Shaft • Round-Hole Output Shaft • Double-D Output Shaft • Keyed Output Shaft	Free
5	Voltage Options	• AC220V Single-Phase • AC380V Three-Phase • AC110V Single-Phase • AC24V Single-Phase • DC24V 220V etc.	Free
6	Handwheel	 Manual disengagement supported across multiple models	Chargeable
7	Power Outage Return	In case of power failure, follow preset instructions to open or close the valve to ensure safety and property protection	Chargeable
8	Electronic Overload Protection	• Protection against bidirectional overload • Overload output terminals • Multiple voltage options	Chargeable
9	Brushless DC Motor Drive	• High efficiency • Low heat output • High configuration and long lifespan	Chargeable
10	Current Position Feedback (Current Position Transducer)	• Protection against bidirectional overload • Overload output terminals • Multiple voltage options	Chargeable
11	Advanced H-Class Configuration	• Includes advanced protective labels with high standards  High-Precision, Wear-Resistant  Acid and Alkali Resistant, UV Resistant, Highly Weather-Resistant	Chargeable

Note

All features and functionalities listed above can be mixed and matched to suit your specific requirements. We are continuously upgrading and adding new options to our offerings. For tailored solutions and further customization needs, please contact us directly.

03

Control Packs and Modules

Auto Setting Control Pack (FACP-11)

FACP-11 Interface, Operation and Indicator Guide

Auto Setting Control Pack (FACP-11)

The FACP-11 Auto Setting Control Pack accepts 4–20mA (or 1–5V) signals for precise valve angle control, with positioning accuracy up to 1/250. It supports automatic linear control across the full stroke range and includes enhanced features for a more convenient and efficient user experience

Features

- Auto Calibration
- High Control Sensitivity up to 250:1 (adjustable)
- Easy Installation and Wiring
- Compact and Lightweight Design
- Encapsulated for dust and shock resistance
- Compatible with 1kΩ, 5kΩ, 10kΩ

Enhanced Functionalities

1. Fail mode (upon control signal loss)
   - Open - fail to open
   - Stop - fail to stop
   - Close -fail to close
2. Self-Diagnosis
   - Limit switches
   - Potentiometer
   - Motor

Electrical Specifications

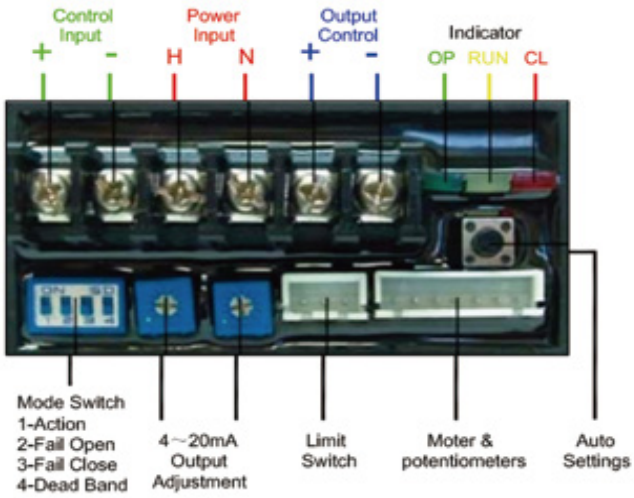
Power	110vac or 220vac 50/60Hz
Control Signal Input	4~ 20mA dc or 2~10vdc
Output Signal	4~20mA 1% DC (RL:250ohm)
Output Power	200W at 220V; 150W at 110V
Resolution	≥ 250:1

Power consumption

Max 150W @110vac or 200W @220vac

FACP-11 Interface, Operation and Indicator Guide

Module Terminal Layout

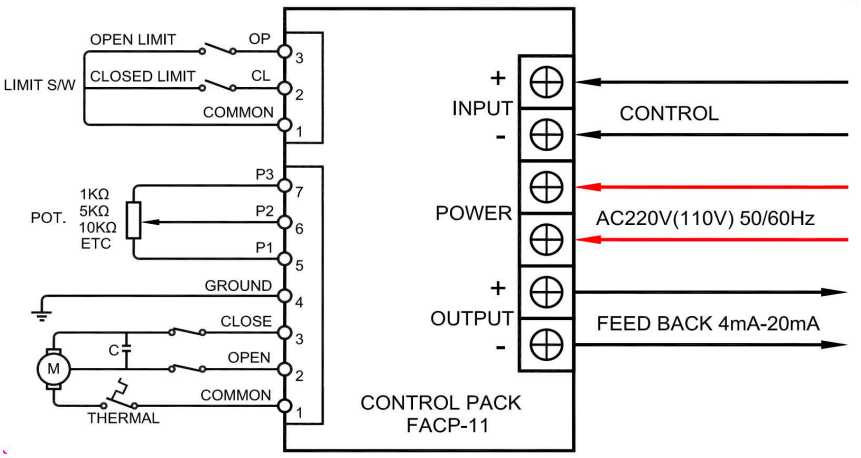


Indicator

Green Lamp On	Actuator is Opening
Yellow Lamp On	Actuator is Operating
Yellow Lamp Flashing Slowly	Fully open/ closed
Yellow Lamp Flashing Quickly	Fail, check limit switch, potentiometer, etc
Red Lamp On	Actuator is Closing

Press and hold the Auto Setting Switch for 3 seconds to start the actuator's auto-calibration, where it cycles twice to find and confirm its open and close limit positions for precise operation.

Wiring

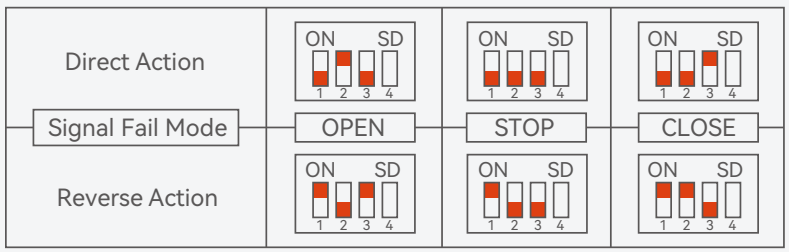


Blockage Protection

Our modulating module is equipped with a blockage protection feature. If the actuator encounters a blockage, the module will automatically shut off the motor approximately 7 seconds after detection. Simultaneously, the yellow indicator lamp will flash rapidly, signaling that the actuator has entered Blockage Protection Mode.

To exit this mode, a reverse input signal must be provided. Upon receiving this signal, the actuator will deactivate the Blockage Protection Mode and resume normal operation.

Mode Switch Operation & Setting



Feedback Output Adjustment (VR):
Sensitive adjustment of "feedback output"

Limit Switch: Input terminal for digital limit is active "A"

- Limit switch common
- Close limit switch
- Open limit switch

Motor & Potentiometer:

- Motor common
- Open motor
- Close motor
- Ground
- Potentiometer P1
- Potentiometer P2
- Potentiometer P2

04

Electric Valves

Electric Ball Valve (Threaded Connection)

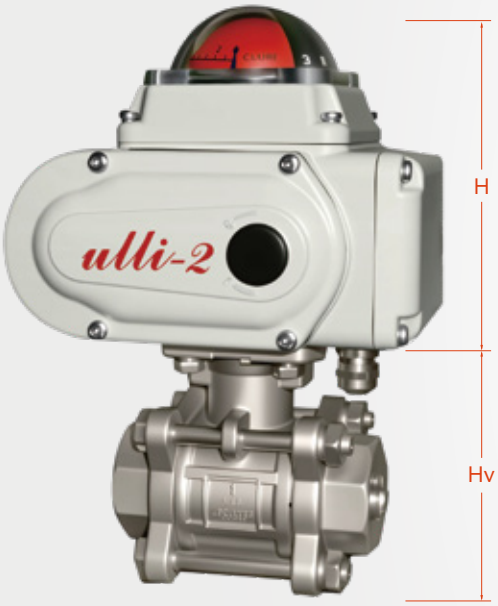
Electric Ball Valve (Flanged Design)

Electric High-Temperature V Control Ball Valve

Electric Butterfly Valve

Dynamic Balancing Electric Control Valve

Electric Ball Valve (Threaded Connection)



Key Advantages

Bracket-Free Design
Eliminates the need for external mounting brackets

Versatile Pressure Range
Available in normal and medium pressure types (1.6–4.0 MPa), suitable for various industrial applications

Exceptional Motor Characteristics
Designed for frequent operation without overheating, achieving a 100% duty cycle for continuous operation

Stainless Steel Valve Construction
Rapid operation with unmatched reliability and durability

Compact and Tight Structure
Strong connections with minimal deviation and space-saving design

Optimized Flow Control
Supports linear and equal-percentage flow profiles with multiple port sizes for diverse process control needs

Highly Reliable Design
Core components use imported brands, rated for over 100,000 cycles to ensure long-term stability

DN	Inch	Electric Actuator (For Reference)	Length L (mm)	Valve Height Hv (mm)	Head Height H (mm)	IS05211 Flange	Stem Square (mm)
15	1/2″	ulli-2	65	42	125	F05	9
20	3/4″	ulli-2	70	49	125	F05	9
25	1″	ulli-5	85	58	143	F05	11
32	1.25″	ulli-5	94	63	143	F05	11
40	1.5″	ulli-10	105	71	150	F07	14
50	2″	ulli-10	125	78	150	F07	14
65	2.5″	ulli-16	155	102	150	F07	17
80	3″	ulli-25	173	110	176	F10	22

Electric Ball Valve (Flanged Design)

Key Features & Bene its

Ultra-Fast Response for high speed version
Reliable and lightning-fast operation without compromise

Proprietary Electric Actuator
Equipped with a patented electric actuator system, featuring a self-contained power source for superior performance

Strong Shaft Transmission
Four-sided shaft ensures stable torque transfer, secure connection, and improved safety

Stainless Steel Valve Construction
The valve is crafted from stainless steel, offering durability, corrosion resistance, and an aesthetically pleasing design

Compact and Robust Structure
The design ensures tight connections, minimal backlash, and space efficiency, making it ideal for precise industrial applications

DN	Inch	Electric Actuator (For reference)	Valve Height Hv (Hv)	Head Height H (H)	IS05211 Flange	Stem Square (mm)
15	1/2″	ulli-2	46	135	F05	9
20	3/4″	ulli-2	51	135	F05	9
25	1″	ulli-5	62	143	F05	11
32	1.25″	ulli-5	72	143	F05	11
40	1.5″	ulli-10	78	150	F07	14
50	2″	ulli-10	86	150	F07	14
65	2.5″	ulli-16	108	150	F07	17
80	3″	ulli-25	116	176	F10	22
100	4″	ulli-50	139	176	F10	22
125	5″	ulli-50	176	176	F12	22
150	6″	ulli-100	192	186	F12	27

Electric High-Temperature V Control Ball Valve

Key Features & Benefits

Exceptional Control Capability
The V-port ball valve provides a flow characteristic approximating an equal percentage curve, achieving a high control ratio of up to 300:1 for precise flow regulation

Stable and Low-Friction Operation
The ball is supported by a robust axial bearing, ensuring minimal rotational resistance, stable performance, and quick response times

Superior Cutting Capability
The combination of a hardened sealing seat and V-shaped port delivers strong shearing force, allowing it to cut through fibers effectively, maintain smooth operation, and avoid blockages or jamming

Superior Sealing Performance
The spring-loaded metal seat offers self-compensation and excellent sealing, with leakage rates as low as 10-6, meeting stringent sealing requirements

High-Temperature Resistance
Metal-sealed structure with enhanced support design enables outstanding resistance to high temperatures, ideal for steam and other demanding media

Size DN	Outer diameter OD (mm)	Valve Length (mm)	Valve Height H (mm)
25	68	62	330
32	78	62	350
40	85	62	370
50	100	75	390
65	120	80	410
80	130	100	430
100	158	115	460
125	180	130	490
150	216	160	520
200	268	200	550
250	406	240	600
300	460	335	650
350	520	415	700
400	580	490	750

Electric Butterfly Valve

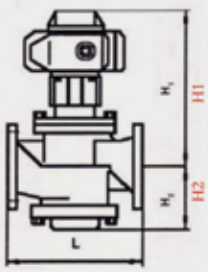
Port diameter (mm)	Size (Inch)	Electric Actuator (For Reference)	Hv	Valve Body Thickness (mm)	Weight (kg)	Special Features
50	2	ulli-2	161	43	5	
65	2.5	ulli-5	175	46	6	
80	3	ulli-5	181	49	7	
100	4	ulli-10	200	56	9	
125	5	ulli-16	213	64	11	
150	6	ulli-16	226	70	13	
200	8	ulli-25	260	71	20	
250	10	ulli-50	292	76	26	Overload protection
300	12	ulli-60	337	83	40	Overload protection
350	14	ulli-100	368	92	62	Overload protection
400	16	ulli-100	400	102	83	Overload protection
450	18	ulli-200	422	114	106	Overload protection
500	20	ulli-200	480	127	155	Overload protection
600	24	ulli-400	560	154	217	Overload protection
700	28	ulli-400	624	165	322	Overload protection
800	32	ulli-400	672	190	422	Overload protection
900	36	ulli-600	756	203	550	Overload protection
1000	40	ulli-600	840	216	690	Overload protection

Dynamic Balancing Electric Control Valve

Overview

In HVAC systems, heating networks, or locations where remote operation is inconvenient or areas that are hard to reach during installation or maintenance, the KDZL dynamic balancing electric control valve offers a smart solution. Through its intelligent control module, it allows for convenient manual and automatic regulation of flow rates and temperatures across different circuits. This facilitates optimized energy use and intelligent energy management.

Control Methods: Intelligent Mode, Proportional Mode, On/Off Mode



Key Product Advantages

Stability
The flow rate changes at the end-user equipment are not affected by system pressure fluctuations, ensuring no mutual interference in flow adjustments.

Energy Efficiency
Saves 6–20% energy compared to traditional systems.

High Efficiency
Significantly reduces commissioning time, ensuring efficient system operation.

Comfort
Provides more precise temperature control, making the system more comfortable compared to traditional variable flow systems.

Actuator Compatibility
Excellent interchangeability with angle actuators.

Flow Characteristic Curve
Linear or equal-percentage options available.

Flow Accuracy
Error margin ≤ 5%.

Operating Temperature
0–150°C.

Operating Differential Pressure Range
20–500 kPa.

Model	DN (mm)	Connection Type	Length (mm)	H1 (mm)	H2 (mm)	Flow rate (m^3/h)	Weight (kg)
EBV15-16	15	Threaded connection	80	60	50	0.2-1	2.6
EBV20-16	20	Threaded connection	80	60	50	0.3-1.5	2.6
EBV25-16	25	Threaded connection	90	60	50	0.5-2	2.7
EBV32-16	32	Flanged Connection	160	180	70	1-4	4
EBV40-16	40	Flanged Connection	200	200	100	1.5-6	11
EBV50-16	50	Flanged Connection	215	210	105	2-8	12
EBV65-16	65	Flanged Connection	230	240	110	3-12	15
EBV80-16	80	Flanged Connection	275	289	170	5-20	27
EBV100-16	100	Flanged Connection	290	305	185	10-30	30
EBV125-16	125	Flanged Connection	310	310	200	15-45	40
EBV150-16	150	Flanged Connection	350	340	220	30-70	63
EBV200-16	200	Flanged Connection	425	380	285	40-180	105
EBV250-16	250	Flanged Connection	480	470	385	100-300	189
EBV300-16	300	Flanged Connection	650	565	480	150-500	218
EBV350-16	350	Flanged Connection	700	580	545	200-700	265

Instructions For Use

Installation

1. Installation Location

1a. Indoor Installation Notes

- Non-explosion-proof and must not be installed in environments containing explosive gases.
- Ensure that the rubber sealing boot is properly secured to prevent malfunction.
- The ambient temperature should be within the range of -20°C to +60°C.

1b. Outdoor Installation Notes

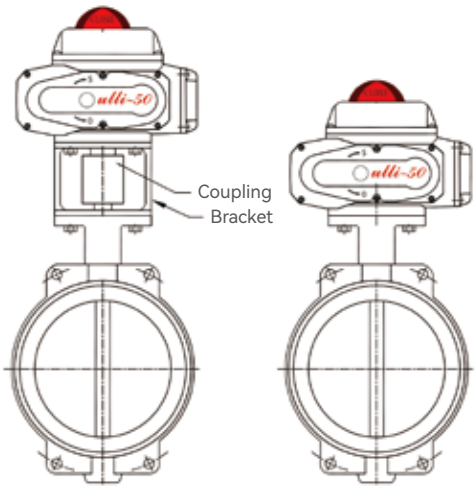
- Protective covers must be added, and the rubber sealing boot must be properly secured to prevent malfunction.

Note

- Direct sunlight can cause high internal temperatures, accelerating component aging.
- Rainwater can accelerate the aging of seals, leading to water ingress and equipment damage.

2. Connection to Valve (Bracket-Mounted Type)

1. Manually rotate the valve to confirm there are no abnormalities, and ensure the valve is in the fully closed position.
2. Gently secure the bracket to the valve using screws.
3. Fit the coupling onto the valve stem.
4. Rotate the actuator to the fully closed position.
5. Insert the actuator's output shaft into the coupling.
6. Gently secure the actuator to the bracket using screws.
7. Manually rotate the actuator to ensure there is no misalignment, jamming, or other abnormalities.
8. Tighten all screws on the bracket.



Traditional model

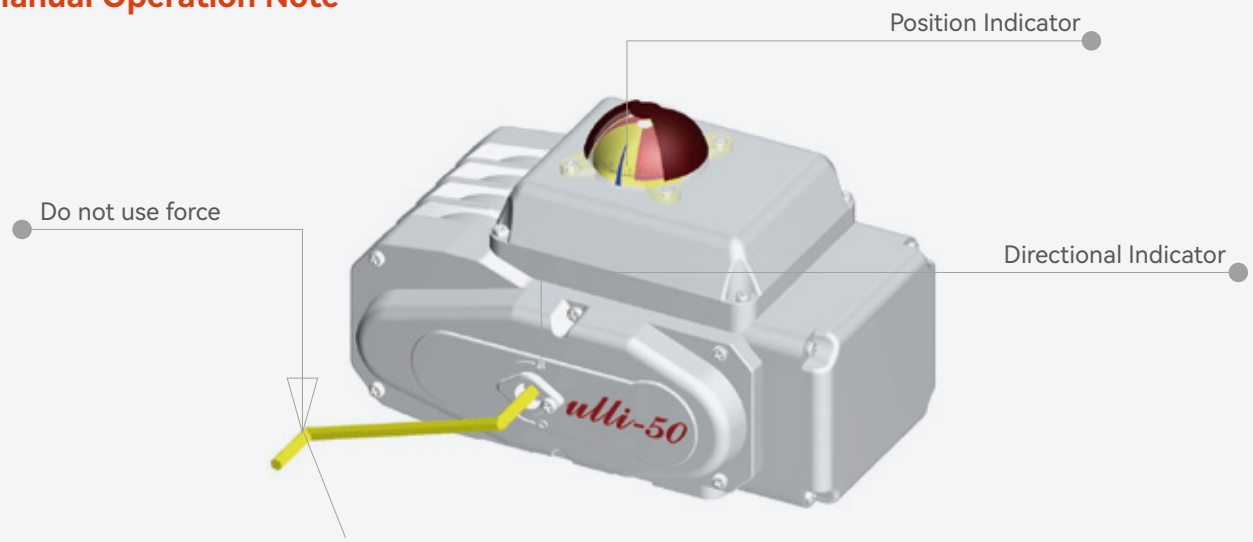
Bracket-free, coupling free

Compact, lightweight, user-friendly, cost-effective, and reliable.

New model

When installing the bracketless model, simply insert the valve stem into the corresponding hole of the electric actuator and tighten the flange screws.

Manual Operation Note



Instructions for manual operation

- This actuator is equipped with a dedicated S shaped hand lever for convenient manual operation. To operate manually, gently rotate the lever to actuate the valve.
- Before beginning, refer to the position indicator to confirm the current valve position. Use the rotation direction indicator to determine the correct direction of movement.
- During operation, monitor the position change carefully. Do not exceed the 0 to 90 degree range to avoid potential damage. If you experience a significant increase in resistance, which indicates the actuator has reached its limit, stop manual operation immediately.Reverse operation may be performed if necessary.

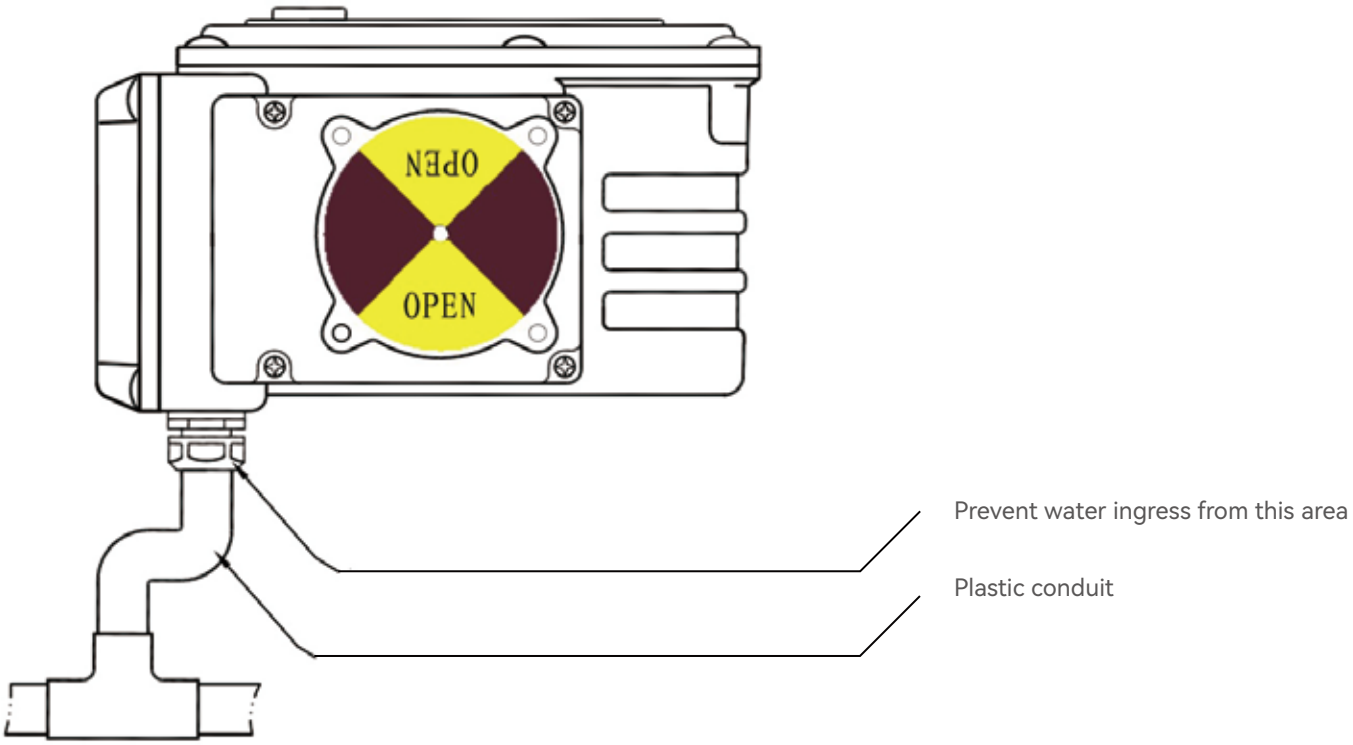
3. Wiring Connection

3-a Cable Wiring

- Use cable with an outer diameter of ϕ9–ϕ12 mm to ensure reliable clamping and sealing.
- Pass the cable through the cable gland and secure the cable head to the terminal block according to the wiring diagram.
- Tighten the cable gland nut and its outer cover to securely lock the cable in place.
- The cross-sectional area of a single conductor should be greater than 1 mm^2.

3-b Conduit Wiring

- Only conduits with an outer diameter of ϕ9–ϕ12 mm are allowed, and proper waterproofing measures must be taken.
- As shown in the diagram, the actuator must be positioned higher than the conduit to prevent water from flowing into the actuator through the cable.



4. Connection

4-a Supply Voltage

Please confirm the power supply voltage according to the product nameplate or wiring diagram.
Possible voltage types include:

- AC220V ±10% 50/60Hz
- AC380V ±10% 50/60Hz
- AC110V ±10% 50/60Hz
- AC24V ±10% 50/60Hz
- DC24V–DC220V

4-b Fuse and Circuit Breaker Selection

A fuse or circuit breaker must be used!
Its rated capacity should be 2 to 3 times the actuator's normal operating current.

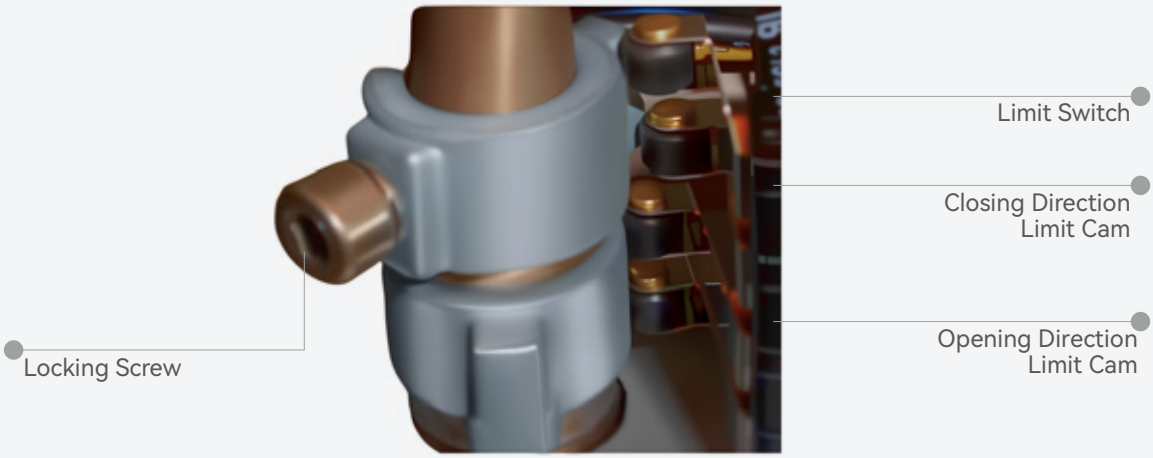
5. Adjustment of Opening and Closing Angles

5-a Electrical Limit Adjustment

1. Loosen the locking screw on the limit cam.
2. Insert a screwdriver into the side notch of the cam.
3. Gently rotate the cam to the desired position to modify the actuator's opening or closing angle.
4. Tighten the locking screw securely to fix the cam in place.

Warning: The adjustment range must not exceed -5 to +95 degrees, or it may lead to malfunction or damage.

Cam and Limit Switch Layout for ulli/digicon-02, 05, 10, 20:

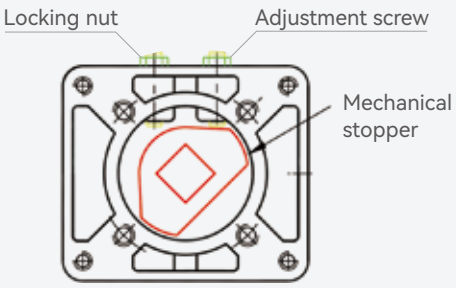


Cam and Limit Switch Layout for ulli/digicon-50, 100, 200, 400, 600:

Note

- For S-type models, after adjusting the electrical limit cam (lower cam), also adjust the signal cam (upper cam) accordingly.
- Ensure that the signal triggers approximately 3 degrees before the full-open or full-close position, so that the signal is sent in advance of the full stroke (for open or close action).

5.b Mechanical Limit Adjustment



- Turn the handle to the fully open position.
- Loosen the locknut (green line), then rotate the adjustment screw (yellow line) until it contacts the mechanical stop block (red line).
- Then, rotate the screw back half a turn, and tighten the locknut.
- Use the same method to adjust the fully closed position.

Note

After adjusting the electrical limit, the mechanical limit must be re-adjusted to ensure the electrical limit is activated before the mechanical limit is reached. This prevents gear damage and ensures the actuator's safety.

AOITEC is the reliable partner for complete actuation solutions

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