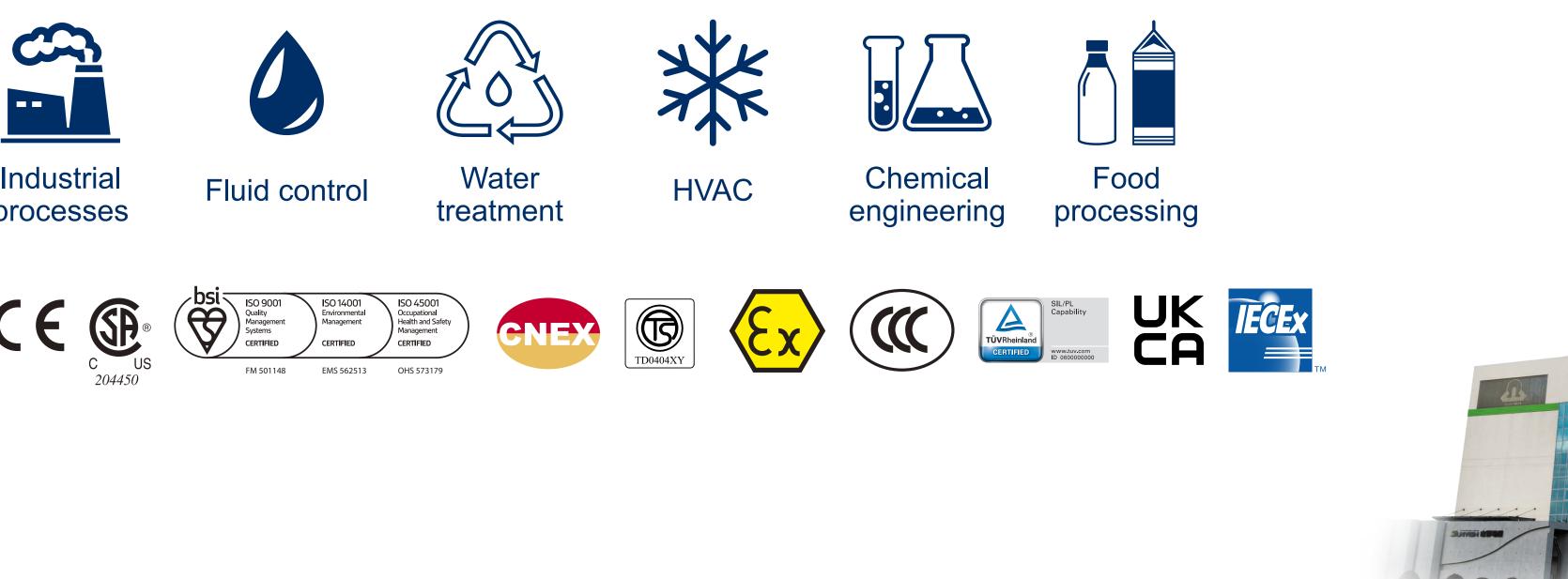




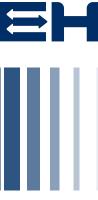
Sun Yeh Electrical Ind. Co., Ltd. was established in 1986 and it is committed to continuous technological innovation, the most advanced product quality management, organizational excellence, and outstanding customer satisfaction. Our sustainable development drives the product line extension to include quarter-turn actuators, spring-return fail-safe actuators, SuperCap fail-safe actuators, linear actuators, multi-turn actuators, and explosion-proof actuators.













SWYEH



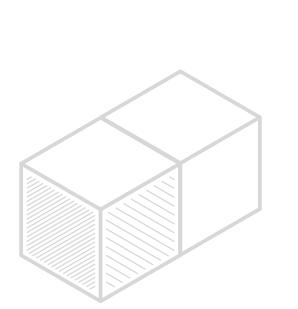
SuperCap Fail-safe Actuator

SuperCap fail-safe actuator offers a torque output of 20 Nm (177 in-lb), which uses supercapacitors to operate dampers or valves to a safe position (fully OPEN or CLOSED) when the power supply is lost, to achieve electronic fail-safe positioning function. It also has many other features, such as multi-voltage design, plug-and-play modular design, electronic torque limiting device, LED status / alarm indication, adjustable travel, and floating or modulating control.

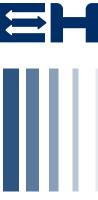












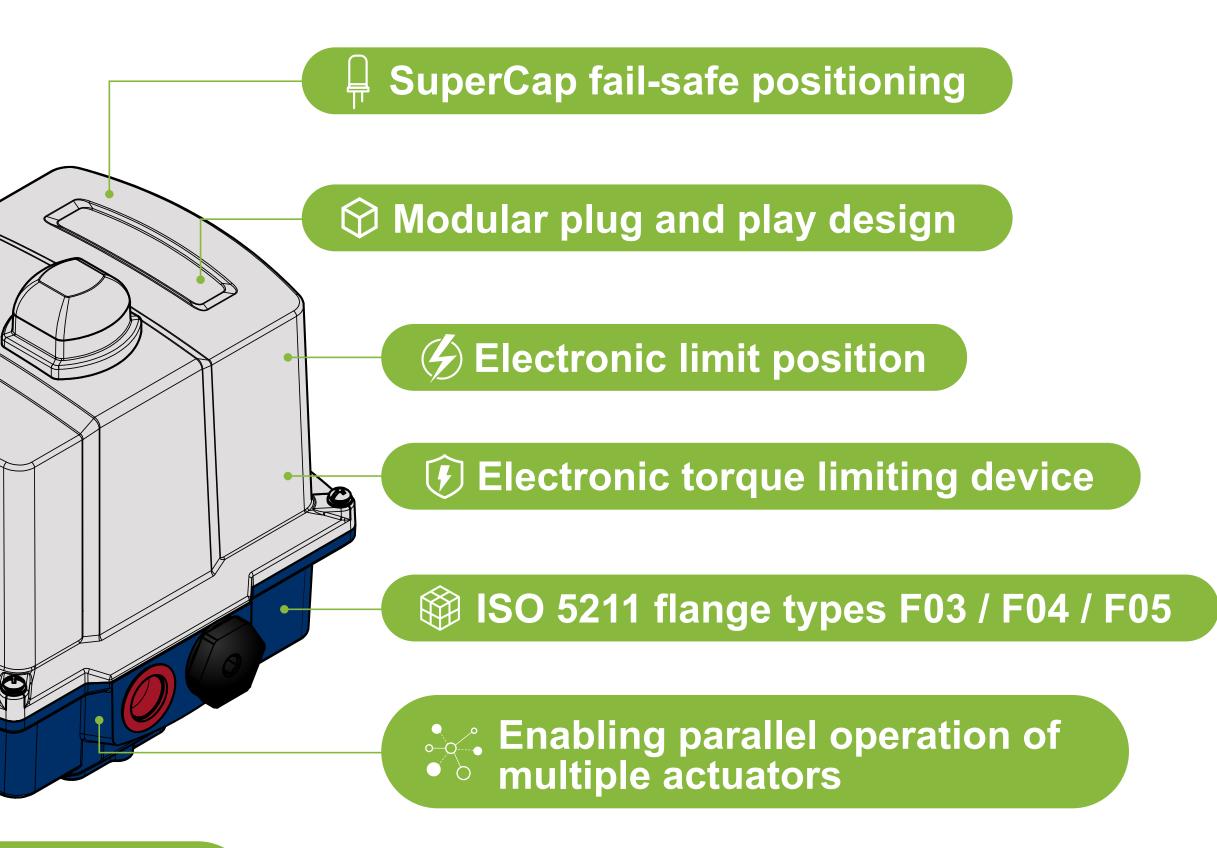


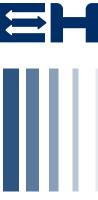
ISO 22153 duty classes A, B, and C

Multi-voltage design









DM-20 Standard Specification



SuperCap Fail-safe Positioning

- Supercapacitors are used to supply power to operate the dampers or valves to a safe position (fully OPEN or CLOSED) when the power is lost.
- Supercapacitors are charged in normal power, and are used to drive the actuators to the fail-safe position when power is lost.

X Pre-charging time: 5 minutes (24 V DC power at 25°C)



Electronic Limit Position

Either fully OPEN or fully CLOSED position can be set by a potentiometer, and users can define the end position in both directions.

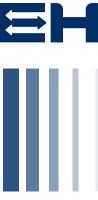
Enclosure

- Material Top cover: Polycarbonate.
 Base: Aluminum alloy, polyester powder coated.
- IP66.





Gear trains are factory lubricated for life.



DM-20 Standard Specification

Output Contacts

3 sets of relay contacts are provided for the feedback of fully-open and fully-closed positioning as well as fault alarm.

Service Condition

Ambient temperature: -20°C to +60°C (-4°F to +140°F) Relative humidity: 30% to 95%

Conduit Entries

Standard: 1/2"PS

For other sizes of conduit entry, please contact your salesperson.



Manual Device

The declutch manual override allows manual operation when there is no power.
※After manual operation, switch to AUTO to enable motorized actuator.



Anti-condensation Heater with Thermostat

The anti-condensation heater protects the actuator from freezing and humidity by warming it up. A built-in thermostat cuts off the heating circuit when the internal temperature of the actuator exceeds $30\pm5^{\circ}$ C ($86\pm9^{\circ}$ F).

Electronic Torque Limiting Device

Overcurrent protection is utilized to achieve torque overload protection, preventing damage to the actuator caused by exceeding the rated torque.

Operating Voltages

• 12 V AC / DC

- 24 V AC / DC
- 100-240 V AC
- 24-240 V AC / 24-135 V DC (Optional)

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Running time is based on 110 V AC @ 60 Hz, Class B, floating control.



Modulating Control

· A modulating control kit allows an actuator to adjust the valve position based on the amount of analog input and output signals. It also features a seven-segment display with button selectors that enable users to access menu-based settings and view historical error messages for easy diagnostics.

Input Signal

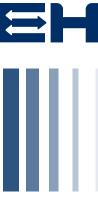
0 - 20 mA, 4 - 20 mA, 0 - 5 V, 1 - 5 V, 0 - 10 V, 2 - 10 V.

Output Signal

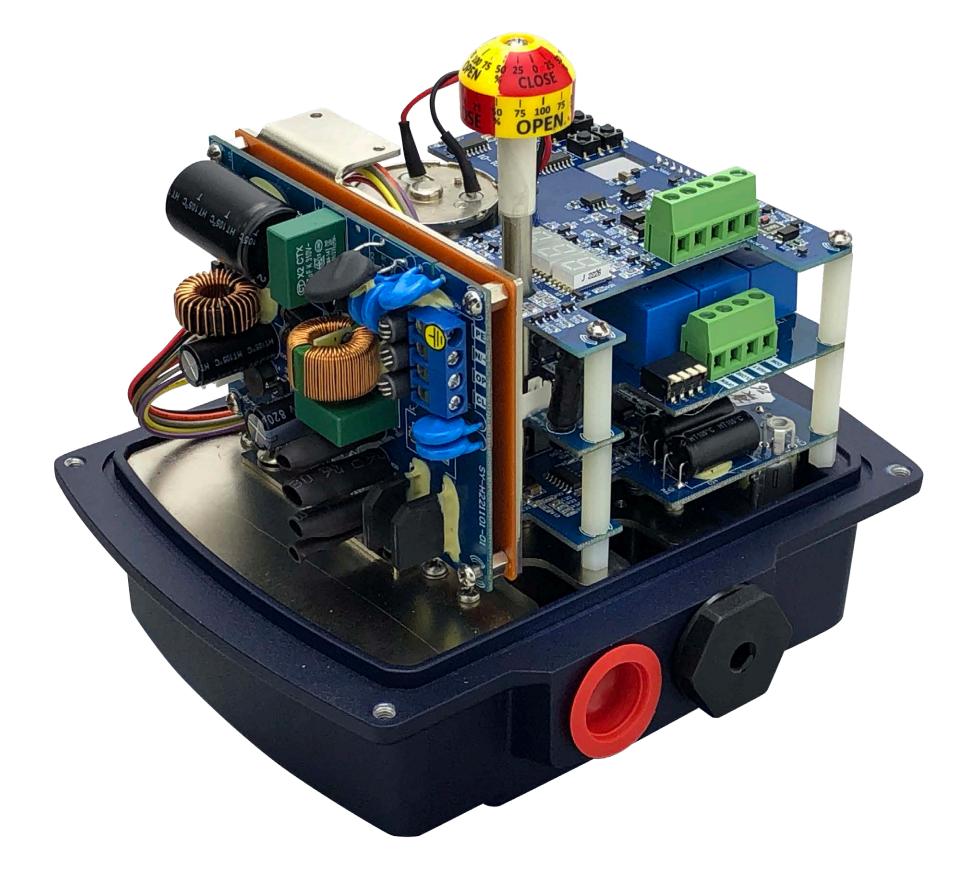
0 - 20 mA, 4 - 20 mA, 0 - 5 V, 1 -5 V, 0 - 10 V, 2 - 10 V.

Technical Data

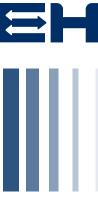
)	Torque		Weight		Motor Power	Motor Run Time	SuperCap Return Time	Manual	Flange Type
	Nm	in-lb	kg	lb	W	(Sec. / 90°)	(Sec. / 90 °)	Override	ISO 5211
0	20	177	2.2	4.85	17	9	13	Lever	F03 / F04 / F05



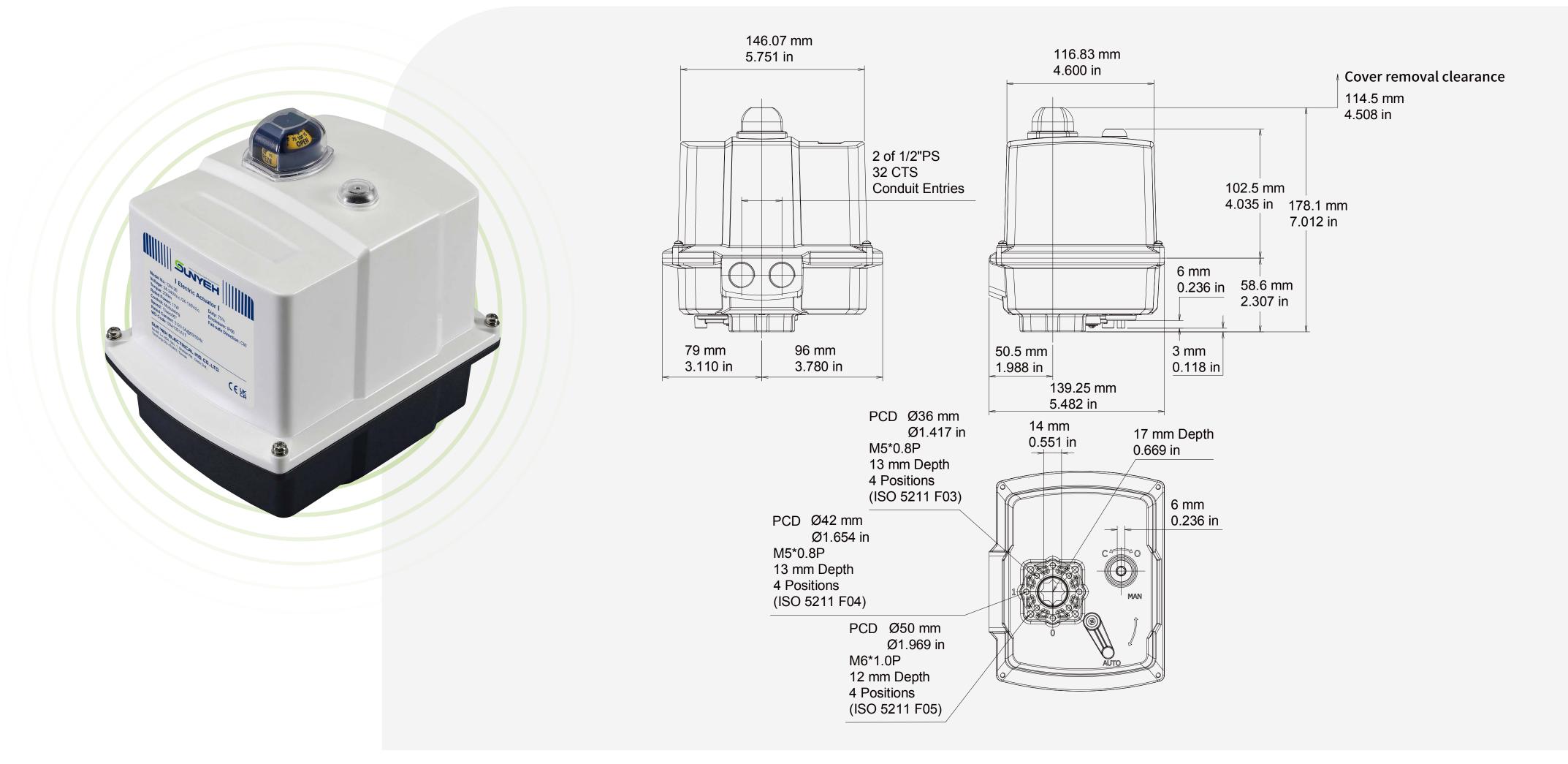




















Perfection Solution

