



VTM Series Electric Actuator



High performance and engineered reliability

Fully compliant with the latest international standards and regulations

Applicable to a wide range of specifications and higher cost performance

Compact design that facilitates the most demanding industrial applications

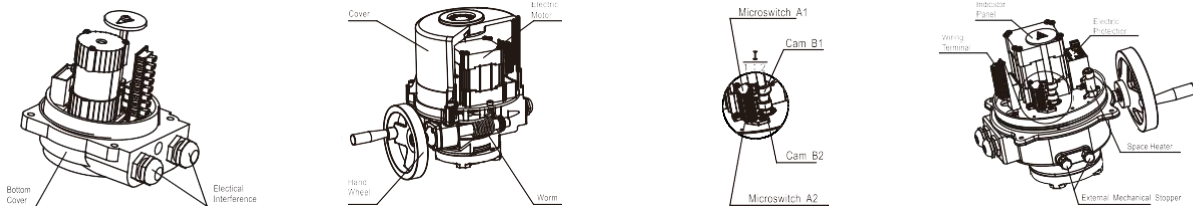
VTM Series Electric Actuator

Introduction

VTORK is specialized in professional design and manufacturing of electric actuators in high performance to provide optimized solution for valve automation field.

VTM series electric actuators are research achievements based on our many years of experience in valve control filed. The products characterize compact design, robust construction, reliable performance and function modularization.

With the outstanding design and service group, VTORK is capable to provide our customers with high-quality electric actuators and complete set of accessories, as well as prompt and effective debugging and on-the-spot guidance service.



Features

1. VTM series electric actuators characterize compact structure, high-strength structure, light weight as well as large output torque. (35NM-4000NM)

2. Enclosure adopts hard aluminum alloy, further processed by anodizing and polyester powder coating to achieve superior anti-corrosion and the protection grade is IP67. Conform to anti-explosive design certification standard: ExdII ct4. Adapt to various working environments.

3. Bottom cover conforms to ISO5211 standard. Drive shaft is designed as spline shape to simplify machining and mounting, adaptable for various kinds of valve rods

4. Electronic torque protection device can provide overload protection. Limit switch can adjust and set maximum rotation angle required by valve.

5. Clutch less manual operation design avoids clutching. Manual operation can be conveniently realized when the power is off to reduce mechanical failures.

6. Worm wheel and worm gear in high precision ensure self-locking function, anti-reverse rotation as well as labor saving manual operation.



7. Whole sealing squirrel-cage type electric motor is characterized by compact size, large torque, low inertia and grade F insulation. Build-in overheat protection prevents motor damaged from overheating.

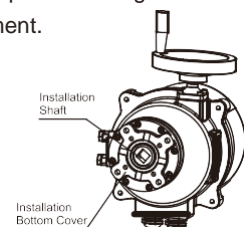
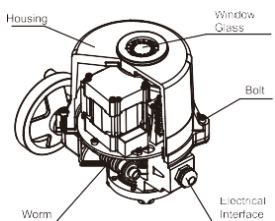
8. The whole series is standard with space heater to prevent moisture condensed due to sharp temperature difference and keep the interior electric components functioning properly.

9. Body sealing adopts anti-off design with stainless steel material and anti-corrosion, applicable to various working conditions.

10. Mechanical and electronic dual limit switch can be set as required by both electric and manual operation conveniently and accurately.

11. Three-dimension and multi-angle window design contributes to remote observation of valve position and convenient application in high altitude filed.

12. Spring-pressed connection terminal realizes convenient and solid wiring, applicable in high-vibration environment.



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VTM regular Type Technical Parameter

Model No	Torque		Switch Time(Sec/90°)			Motor Power(W)		ISO mounting base	Insulation Grade	Rated Current(A)										Weight (Kg)		Manual Device	
	Nm	In.lbs	AC 50Hz	AC 60Hz	DC	AC motor	DC motor			DC24V	AC110V		AC220V		AC400		AC400V/AC440V		AC440V		On/off		ICM
											50Hz	60Hz	50Hz	60Hz	50Hz	50Hz	60Hz	50Hz	60Hz				
VTM1	50	443	10	8	10	18	18	F03-F05	F	1.5	1.7	1.8	0.47	0.52	-	-	-	-	-	3.3	-	Push hand wheel operation	
	70	620	15	12	15	18	18	F07	F	1.5	1.8	1.8	0.47	0.52	-	-	-	-	-				
VTM2	100	885	8	6	8	40	35	F05-F07	F	3.2	0.65	0.76	0.37	0.39	0.33	0.34-0.22	0.35-0.24	0.21	0.22	7.5	13.5	Clutch-less Hand Wheel	
	200	1770	8	6	8	40	35		F	4	0.77	0.84	0.4	0.44	0.35	0.35-0.23	0.35-0.25	0.22	0.23				
VTM3	200	1770	20	16	20	40	60	F07-F10	F	4.9	1.3	1.5	0.7	0.85	0.32	0.32-0.52	0.33-0.51	0.51	0.28	14.5	21		
	450	3983	30	24	30	60	80		F	6	1.86	2	0.61	0.79	0.32	0.32-0.53	0.33-0.54	0.52	0.29				
VTM4	500	4425	30	24	26	90	120	F10-F12 Or F10-F14	F	13.4	2.4	2.79	1.5	1.65	0.4	0.42	0.41-0.43	0.4	0.4	28	34		
	800	7080	40	32	40	90	120		F	13.4	2.4	2.83	1.5	1.88	0.4	0.42	0.41-0.45	0.41	0.43				
	1100	9735	40	32	40	120	180		F	15.3	2.5	2.9	1.6	1.97	0.42	0.43	0.41-0.45	0.421	0.44				
VTM5	1500	13275	48	40	30	200	300	F12-F14- F16	F	18.6	3.9	4.7	2.5	2.9	0.88	0.89-0.9	0.89-0.9	0.89	0.89	41	47		
	2300	20355	48	40	-	200	-		F	-	4.8	5.1	2.8	3.3	0.93	0.95-1	0.98-1.04	0.95	1.04				

Standard Configuration

Housing	Aluminum alloy housing processed by anodizing and polyester powder coating	Stroke	90°±5°
Protection Grade	Climate Protection Type IP67	Position Indicator	Continuous position mechanical indicator
Power Voltage	DC24V, AC110V, AC220V, AC400/440V (Three Phase)	Hand Wheel Operation Device	Self-contained
Control Voltage	AC110V, AC220V	Mechanical limit	One for each of Open/Close position, Self-contained, adjustable externally
Open/Close Operating Type	S2, 20%~50%, 10~30mins	Self-Locking Function	Self-contained
Modulating Operating Type	S4, 30%~50%, 300~1200 times/hour	Anti-Condensation Heater	5W (110V, 220V), (15W, 24V)
Electric Motor	Whole sealing squirrel-cage induction type electric motor, Grade F	Electrical Interface	1*M20x1.5, 1*M25x1.5
Limit Switch	One for each of stroke control open and close position, one for each of passive feedback open and close position (250V, 1DA)	Environment Temperature	-20°C to +60°C
Torque Protection	Electronic torque protection device to monitor running current in motor	Environment Humidity	Maximum relative humidity 90% (non condensing)
Overheating Protection	Motor built-in overheating protection switch, disconnection temperature 150°C ±5°C	Anti-Vibration	XYZ 10g, 0.2~34Hz, 30mins

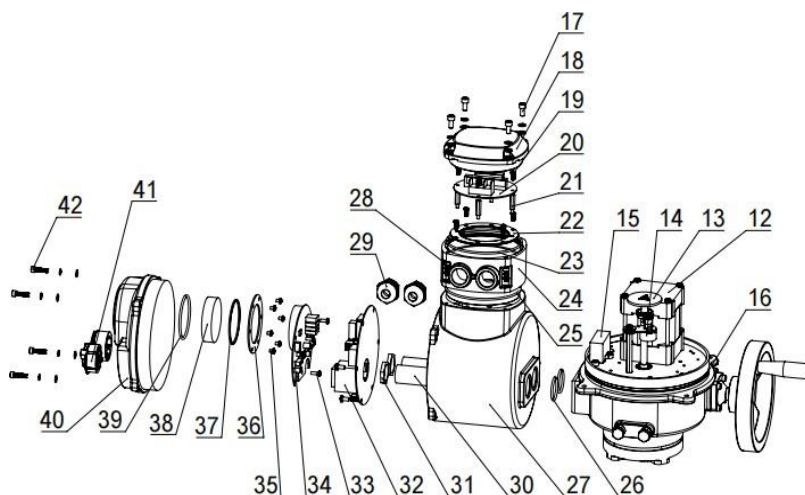
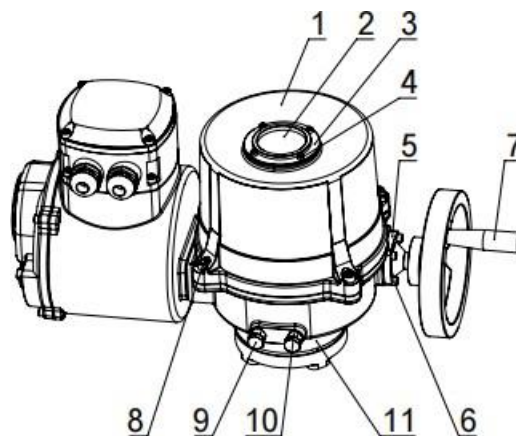
Optional Configuration

Code	Illustration II
Ex	Anti-Explosive Exd II BT4, CT4
ATS	Over torque protection output (1pc)
ALS	Auxiliary limit switch (up to 4pcs)
PK	Potentiometer unit (0~1KΩ)
CT	Position current feedback (4~20mA)
RPC	input/output 4~20mA, 0~10V, etc.
ICM	LCD display, field operation unit

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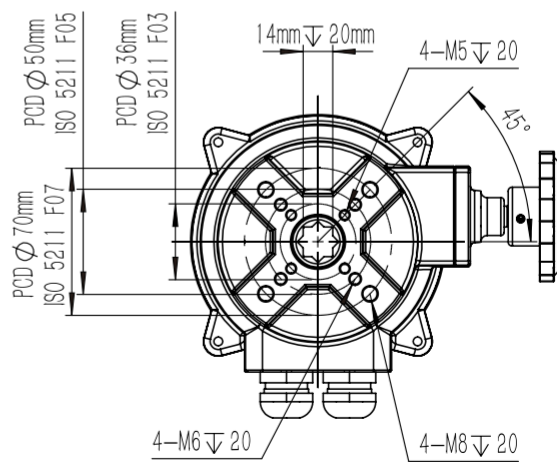
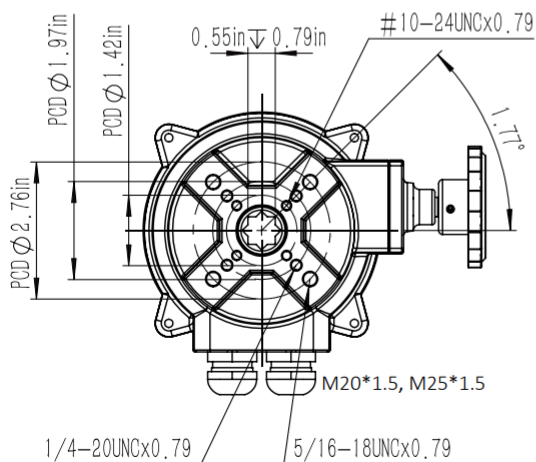
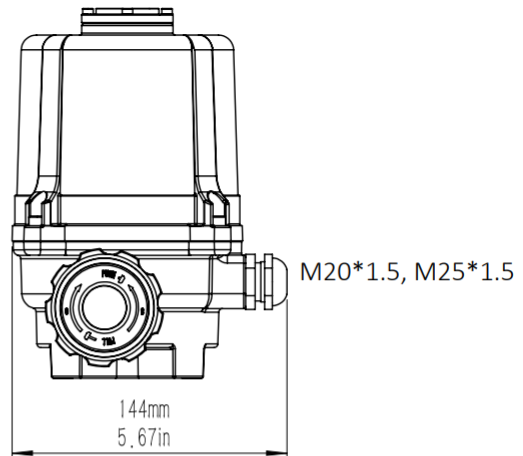
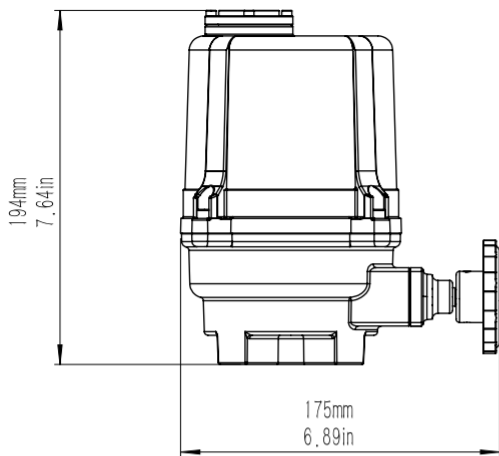
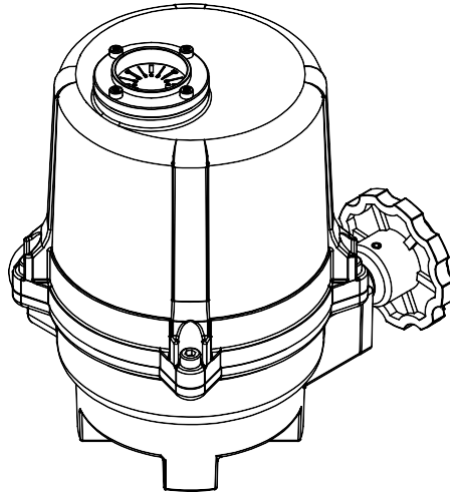
Parts And Materials

Serial number	Name	Material	Quantity
1	Covered	Aluminum alloy	1
2	Window & indicator	glass	1
3	Upper cover plate	stainless steel	1
4	Hexagonal screws	stainless steel	4
5	Handwheel side cover	Aluminum alloy	1
6	Hexagonal screws	stainless steel	4
7	Handwheel	Aluminum alloy	1
8	Anti-shedding screws	stainless steel	4
9	Limit bolts	stainless steel	2
10	Limit nuts	stainless steel	2
11	Lower shell	Aluminum alloy	1
12	Motor	Components	1
13	Pointer wheel	nylon	1
14	potentiometer	Components	1
15	capacitance	Components	1
16	O-ring	NBR	1
17	Hexagonal screws	stainless steel	4
18	Wiring cover	Aluminum alloy	1
19	Round head phillips screws	stainless steel	4
20	Terminal blocks	Components	1
21	column	stainless steel	4
22	Adapter board	stainless steel	1
23	O-ring	NBR	1
24	Terminal housing	Aluminum alloy	1
25	O-ring	NBR	1
26	O-ring	NBR	1
27	Backpack case	Aluminum alloy	1
28	Hexagonal screws	stainless steel	4
29	Waterproof connector	stainless steel	2
30	Thread studs	stainless steel	2
31	Thread nut	stainless steel	2
32	Control module	Components	1
33	Round head phillips screws	stainless steel	8
34	LED control module	Components	1
35	Round head phillips screws	stainless steel	6
36	Window platen	stainless steel	1
37	Glass press	nylon	1
38	toughened glass	glass	1
39	O-ring	NBR	1
40	Backpack cover	Aluminum alloy	1
41	knob	PA6	2
42	Hexagonal screws	stainless steel	4



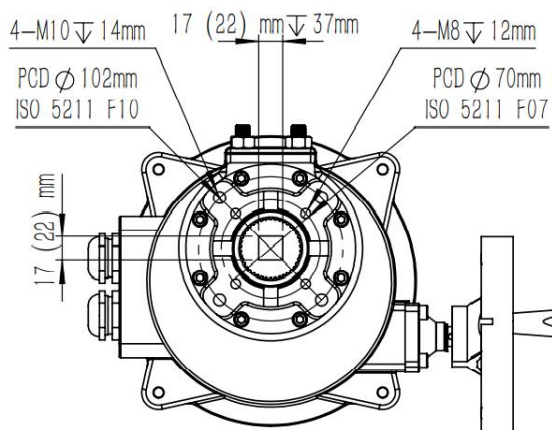
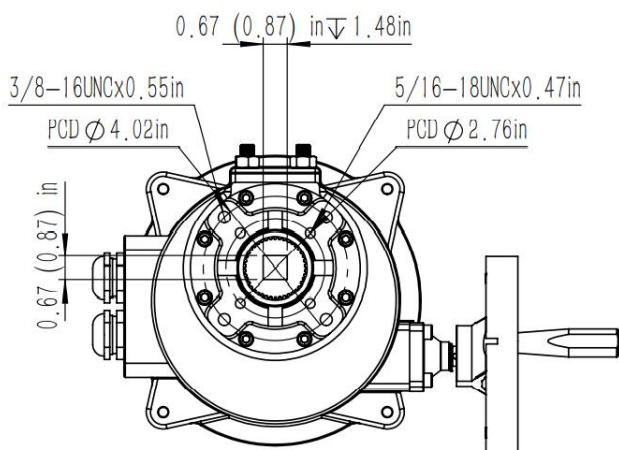
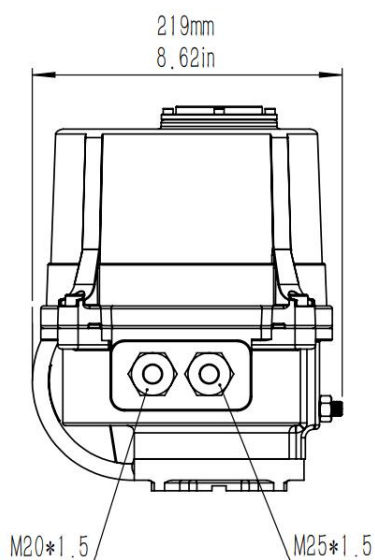
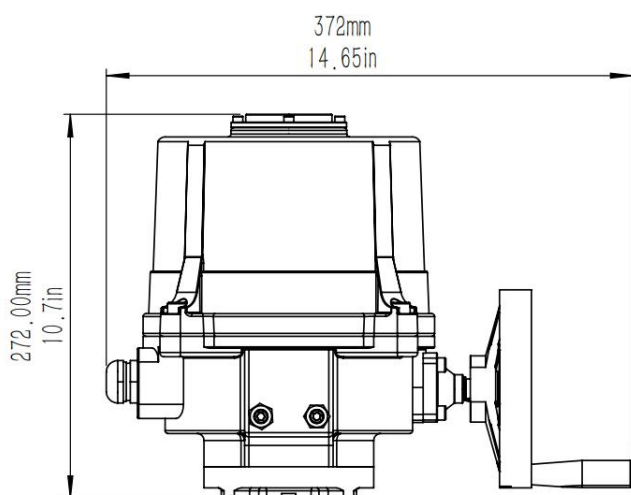
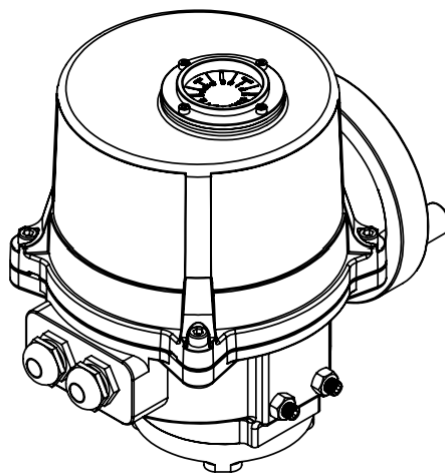
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VTM1 outline dimensions



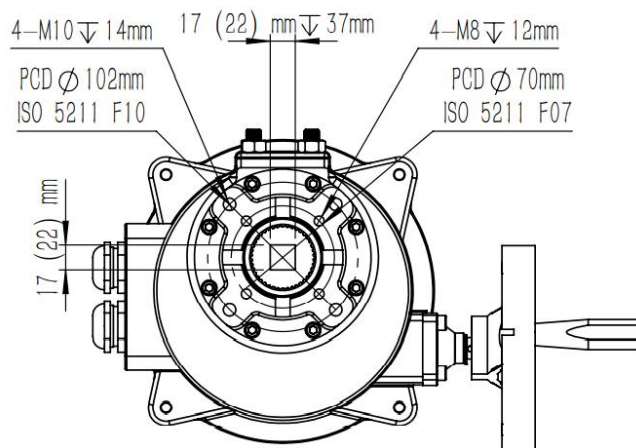
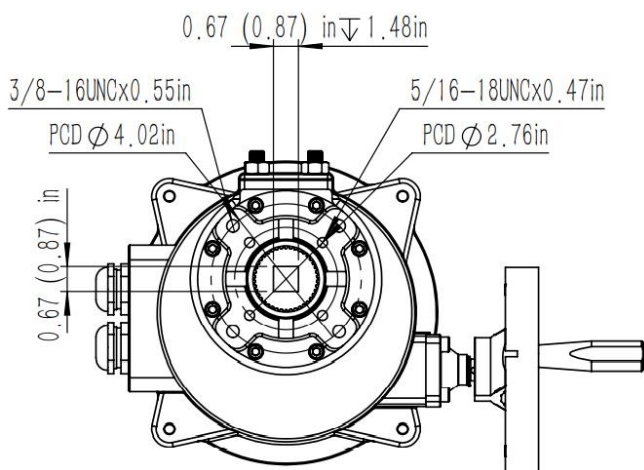
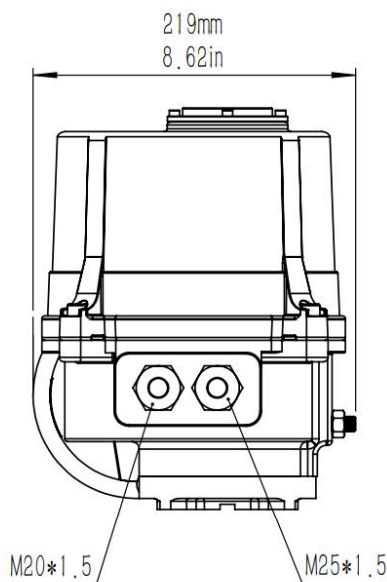
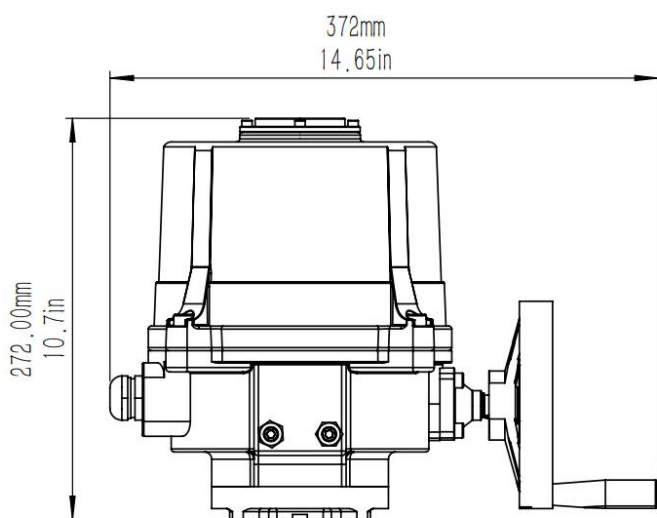
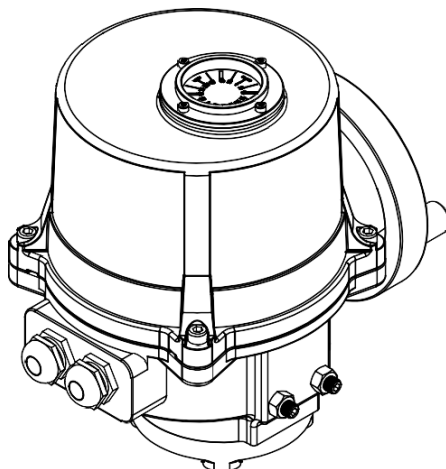
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VTM2 outline dimensions



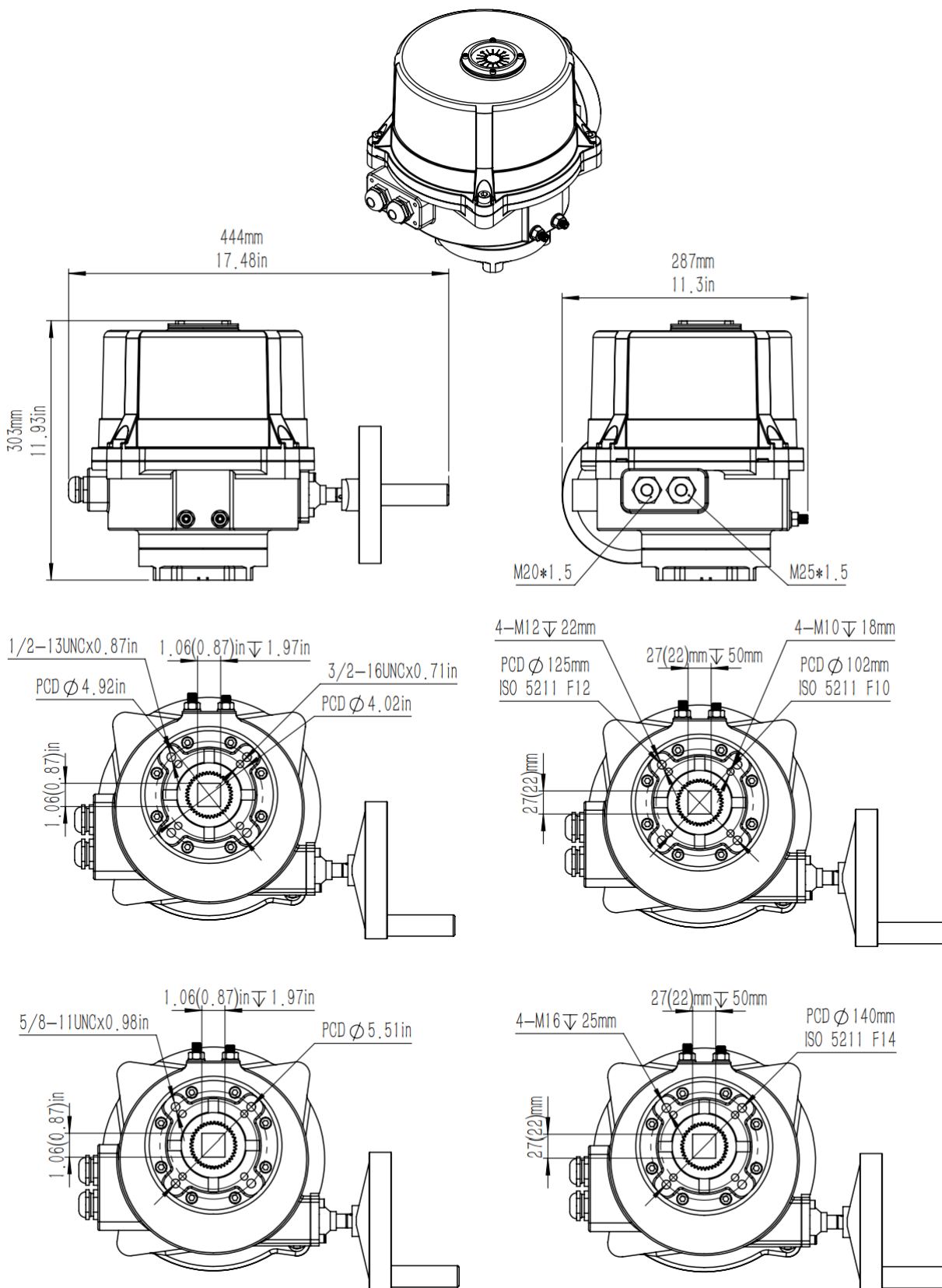
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VTM3 outline dimensions



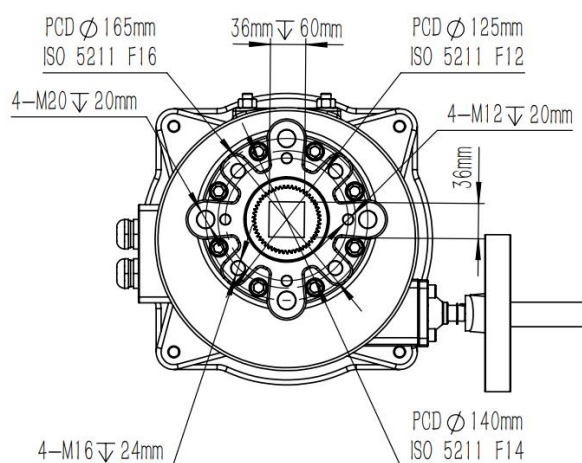
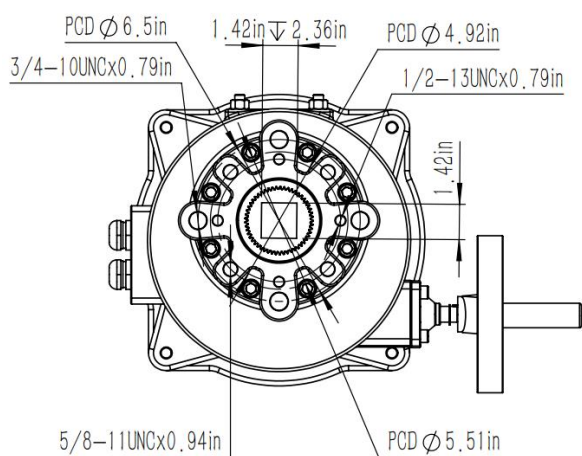
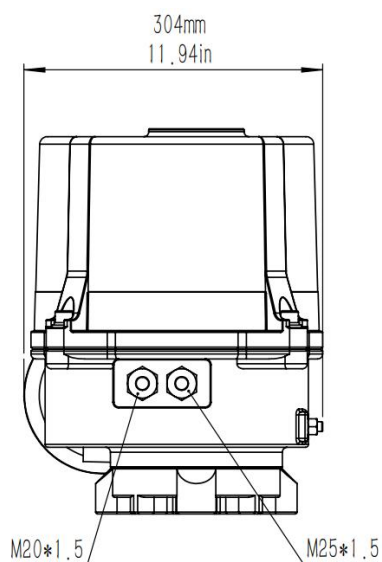
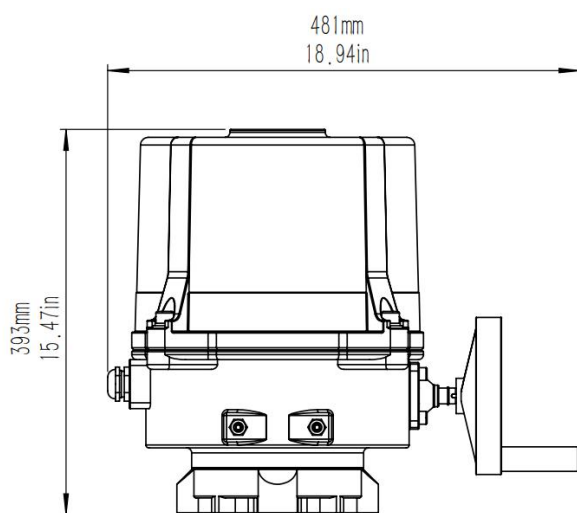
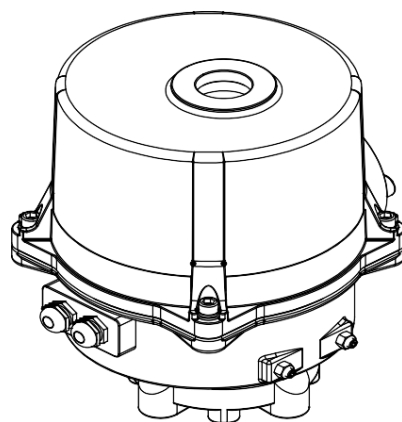
VTM Series Electric Actuator

VTM4 outline dimensions



VTM Series Electric Actuator

VTM5 outline dimensions



VTM Series Electric Actuator

VTM Modulating Type Features

VTM Intelligent electric actuators control panel (hereinafter referred to as control panel) integrates multifunctional servo amplifier and position signal transmitter. Without any adjustable components on the panel, all operations such as field debugging, sensitivity setting and automatic/manual switching controlled by four buttons on the control panel, contributing to fast and simple installation and debugging. LED digital tubes and indicator light on the panel show the working status, satisfying different needs from customers.

The control panel installed interior electric actuator, directly receiving standard 4~20mA current control signal from DCS control system or other host computer control system. Interior potentiometer signal works as valve position signal transmitter and makes comparison with control signal inside control panel chip. When signal difference exceeds control panel sensitivity value, control panel demands electric actuator motor move in the direction to narrow the signal difference by controlling alternating current contactor on the electric actuator until signal difference is less than control panel sensitivity value.

Key Performance

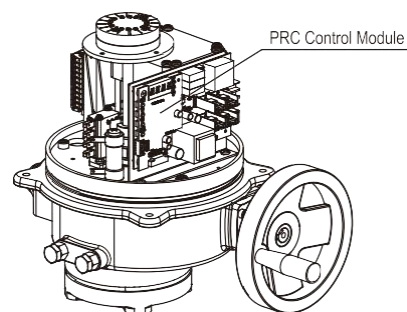
- Input Signal: 4~20mA.DC、0~10mA.DC
- Input Impedance : 250 Ω (4~20mA) or 500 Ω (0~10mA)
- Valve Position Sensor: Single-turn absolute value encoder
- Valve Transmitting Output Signal: 4~20mA.DC or 0~10mA.DC
- Intrinsic Error: $\leq \pm 0.2\%$
- Motor Blocking Protection Time: 1~25.4S (default 6.4S)
- Consumption Power: $\leq 3VA$
- Actuator Operating Sensitivity: 0.1%~12.5%
- Insulation Strength: power frequency 1500V、1min
- Insulation Resistance: above 50 Ω
- Environment Temperature: -20°C to +60°C
- Relative Humidity: $\leq 90\%$
- Power Voltage: AC 110V/220V/400V/440V 50Hz/60HZ $\pm 10\%$; or DC 12V/24V
- Outline Dimension (mm): 128*84

Signal disconnection, no feedback, motor stalling failure protection function.

- Instantaneous Reverse Rotation Protection Function:

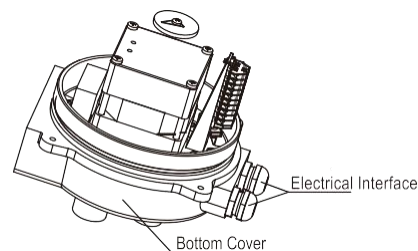
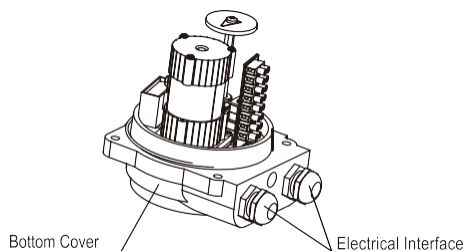
Prior to implementing reverse action instruction, control panel stops rotation with certain time delay (delay time is adjustable as per requirement) to avoid unnecessary damage to electric motor, speed reducer or valve rod, etc.

- Failure code warning function
- One-key calibration function
- Passive feedback output function for full close position and fully open position



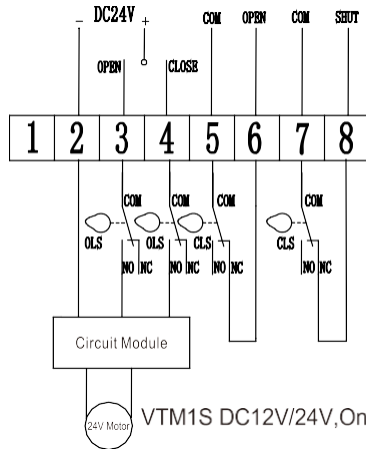
VTM Electric Quick-Start Actuator

VTM series electric quick opening and closing ball valve is new generation of automatic valve products independently researched and developed by VTOR according to current market demands. The series characterizes quick opening and closing, high reliability and high stability. Applicable to a variety of fluid media. It integrates rapid action of solenoid valve and reliability of electric valve. It has been warmly welcomed since entering the market, extensively applied to fire control, program-controlled ignition system, heavy oil and crude oil transfer control in petroleum industry, as well as automatic switching and remote control for viscous medium containing particles.

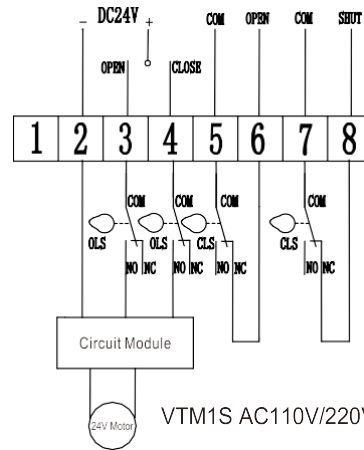


VTM Series Electric Actuator

VTM1S regular On/Off Type Wiring Diagram



VTM1S DC12V/24V, On/Off Type

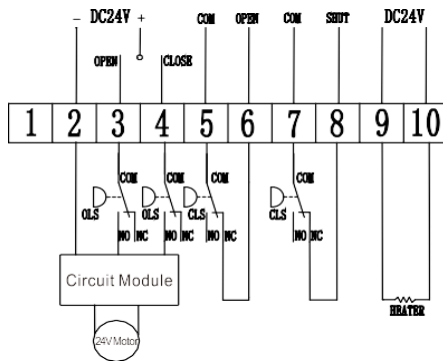


VTM1S AC110V/220V, On/Off Type

- 1、 2-3: On Position Control (2 is connected with cathode)
- 2、 2-4; Off Position Control
- 3、 5-6: Full Open Signal Feedback
- 4、 7-8: Full Close Signal Feedback
- 5、 5 and 7: COM is available for short connection

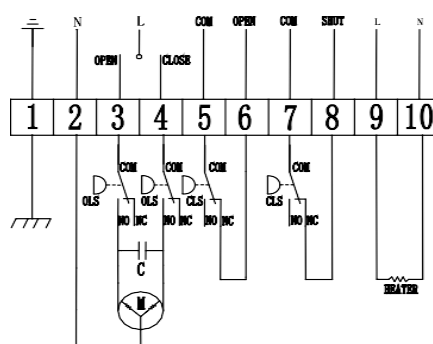
- 1、 2-3: On Position Control
- 2、 2-4: Off Position Control
- 3、 5-6: Full Open Signal feedback
- 4、 7-8: Full Close Signal feedback
- 5、 5 and 7: COM is available for short connection
- 6、 1 is GND

VTM2-5 regular On/Off Type Wiring Diagram



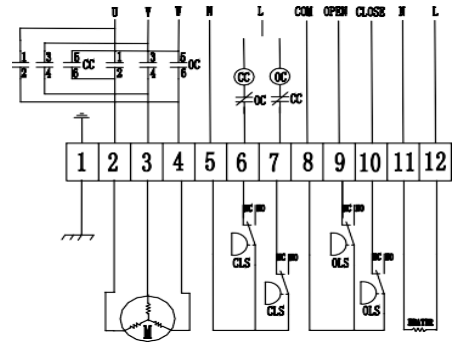
VTM1-5 DC12V/24V, On /Off Type

- 1、 2-3: On Position Control (2 is connected with cathode)
- 2、 2-4 Off Position Control
- 3、 5-6: Full Open Signal Feedback
- 4、 7-8: Full Close Signal Feedback
- 5、 5 and 7: COM is available for short connection
- 6、 9-10: The thermal resistor is connected with 24V



VTM1-5 AC110V/220V, On /Off Type

- 1、 2-3: On Position Control
- 2、 2-4: Off Position Control
- 3、 5-6: Full Open Signal Feedback
- 4、 7-8: Full Close Signal Feedback
- 5、 5 and 7: COM is available for short connection
- 6、 The thermal resistor is connected with 220V 7、 1 is GND

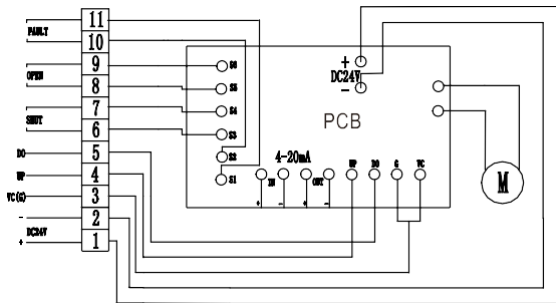


VTM2-5 AC400V/AC440V, On/Off Type

- 1、 1 is GND
- 2、 2-3-4: Connection to 400/ 440V power supply
- 3、 5-6: On Position Control
- 4、 5-7: Off Position Control
- 5、 8-9: Full Open Signal Feedback
- 6、 8-10: Full Close Signal Feedback
- 7、 11-12: 220V thermal resistor
- 8、 OC: Alternating current contactor (open)
- 9、 CC: Alternating current contactor (close)

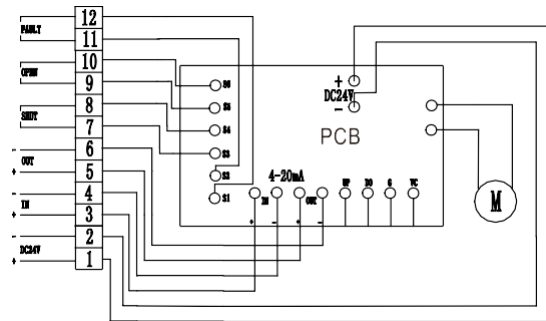
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VTM2-VTM5 Switching Value/Modulating Type Wiring Diagram



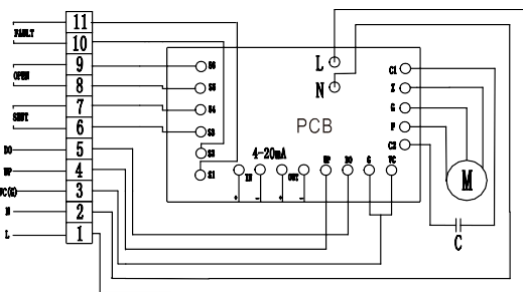
DC24V Switching Quantity

- 1、 1-2: Connection to 24V power supply
(1 is connected with anode, 2 is connected with cathode)
- 2、 3-4: On Position Control
- 3、 3-5: On Position Control
- 4、 6-7: Full Close Signal Feedback
- 5、 8-9: Full Open Signal Feedback
- 6、 10-11: Fault Signal Feedback



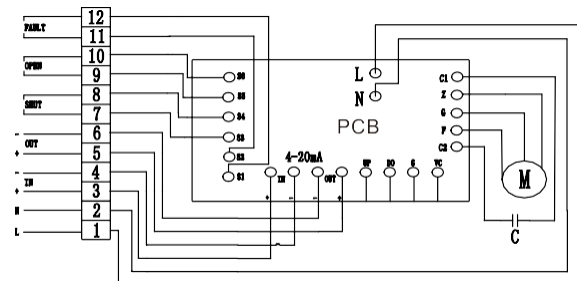
DC24V Analog Quantity

- 1、 1-2: Connection to 24V power supply
(1 is connected with anode, 2 is connected with cathode)
- 2、 3-4: 4-20mA signal input
(3 is connected with anode, 4 is connected with cathode)
- 3、 5-6: 4-20mA signal output
(5 is connected with anode, 6 is connected with cathode)
- 4、 7-8: Full Close Signal Feedback
- 5、 9-10: Full Open Signal Feedback
- 6、 11-12: Fault Signal Feedback



AC220V Switch Quantity

- 1、 1-2: Connection to 220V power supply
- 2、 3-4: On Position Control
- 3、 3-5: Off Position Control
- 4、 6-7: Full Close Signal Feedback
- 5、 8-9: Full Open Signal Feedback
- 6、 10-11: Fault Signal Feedback



AC220V Analog Quantity

- 1、 1-2: Connection to 220V power supply
- 2、 3-4: 4-20mA signal input
(3 is connected with anode, 4 is connected with cathode)
- 3、 5-6: 4-20mA signal output
(5 is connected with anode, 6 is connected with cathode)
- 4、 7-8: Full Close Signal Feedback
- 5、 9-10: Full Open Signal Feedback
- 6、 11-12: Fault Signal Feedback



VTM Series Electric Actuator

Features

- VTM Intelligent electric actuators control panel (hereinafter referred as control panel) integrates multifunctional servo amplifier and position signal transmitter. Without any adjustable components on the panel, all operations such as field debugging, sensitivity setting and automatic/manual switching controlled by four buttons on the control panel, contributing to fast and simple installation and debugging. LED digital tubes and indicator light on the panel show the working status, satisfying different needs from customers.
- The control panel is installed interior electric actuator, directly receiving standard 4~20mA current control signal from DCS control system or other host computer control system. Interior potentiometer signal works as valve position signal transmitter and makes comparison with control signal inside control panel chip. When signal difference exceeds control panel sensitivity value, control panel demands electric actuator motor move in the direction to narrow the signal difference by controlling alternating current contactor on the electric actuator until signal difference is less than control panel sensitivity value.

Main Performance

- Input Signal Control Method:
 - Analog Quantity Control Signal: 4~20mA DC Input
 - Impedance 150Ω Switch Quantity Control Signal: Inching Mode
 - Two Position Control Mode
- Valve Position Sensor (Declare Prior to PO Placement):
 1. 1~5KΩ Potentiometer Signal
 2. Single-turn Absolute Value Encoder Signal
- Valve Position Amplifier Output Signal: 4~20mA DC
- Intrinsic Error: $\leq \pm 0.2\%$
- Motor Stalling Protection Time: 1~25.4S (default 6.4S)
- Consumption Power: $\leq 5V$
- Actuator Action Sensitivity: 0.4%~12.5%
- Insulation Strength: power frequency 1500V、1min
- Insulation Resistance: above 50MQ
- Environment Temperature: -20°C to +60°C • Relative Humidity: $\leq 90\%$
- Power Voltage (Declare Prior to PO Placement);
 1. AC 400V/440V、50Hz/60Hz $\pm 10\%$
 2. AC 110V/220V、50Hz/60Hz $\pm 10\%$
 3. DC 12V/24V
 - Electronic or mechanical over-torque protection function. When electronic or mechanical over-torque failure occurs, retry function setting is available with parameters of retry times and retry control quantity.
 - Failure protection functions of motor stalling, motor overheat protection, etc.
 - Three phase motor electrical braking function significantly improves positioning precision of actuators (Note Prior to Ordering).
 - Instantaneous Reverse Rotation Protection Function: When the actuator receives reverse action instruction in working process, prior to implementing reverse action instruction, the control panel stops rotation with certain time delay (delay time is adjustable as per requirement) to avoid unnecessary damage to electric motor, speed reducer or valve rod, etc.
 - Failure code warning function • Factory data reset function
 - Relay contact alarm function of open position arriving, close position arriving, failure alarm, over-torque alarm, remote control, local status.
 - Alarm function of signal disconnection and no feedback, and setting of maintaining current position, fully open position, full close position or other required position is available.
 - Free choices of two control modes for control panel on-spot debugging and function setting: hand-held infrared remote control or control through two buttons on the enclosure
 - When power supply is AC 380V, automatic phase calibration protection function of three phase is available to ensure the actuator is always in correct rotation direction.

VTM Series Electric Actuator

LCD (Liquid Crystal Display)

The actuator control panel is equipped with a 128*64 dot matrix graphic LCD. It can be divided to area I, II and III as per the layout. Area I is valve position display area, presenting current valve position in the way of valve position opening degree percentage in real-time. Area II is control mode display area. Area III is operation status and alarm information presenting area detailed displaying information please refer to alarm information in the remainder of the content. When entering working parameter setting menu, LCD will apply area I, II and III uniform.

When the control panel of the actuator is powered on, self-checking on the instructions, the program area, the data area and A/D switching function in turn. LCD valve position display area presents current valve position opening degree percentage and the content of alarm area is deleted when all of the self-checking results are normal. The reminder of the abnormal failure will keep popping up and the control system cannot be operated and will wait for troubleshooting when any items is detected with negative results during self-checking process.

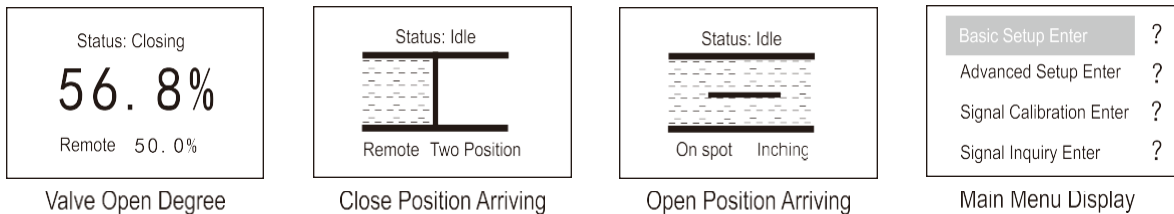


Diagram1 . Control Panel LCD Diagram

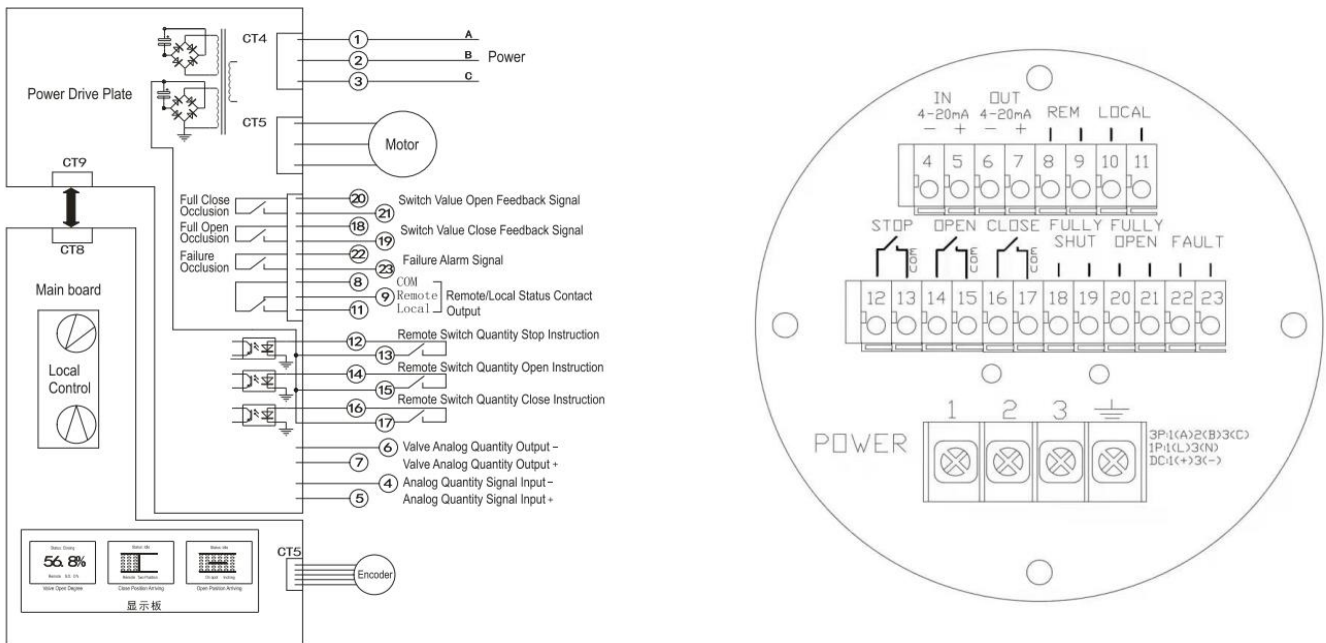
When the actuator control panel is initialized with power supply, area I presents the actual valve open degree in percentage. It presents in diagram (see picture below) when the valve is in full open or full close position.

The lower right corner of area II, presents the signal transmitted from the host computer in percentage, when in analog quantity control mode. It presents the selected control mode of switch quantity (inching, two position, two position open valve, two position close valve) when in switch quantity control mode.

The lower left corner of area II presents the current work mode of the actuator control panel (remote, idle and on spot).

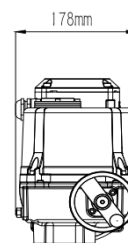
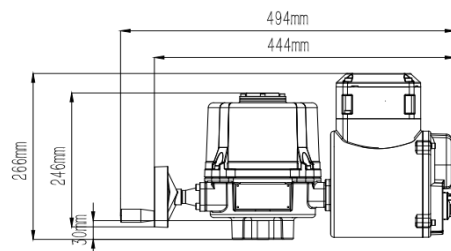
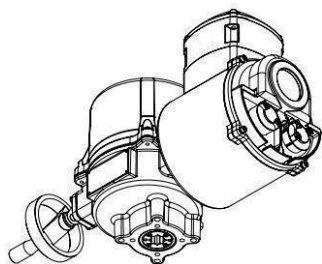


Wiring Diagram



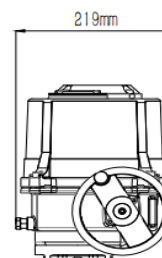
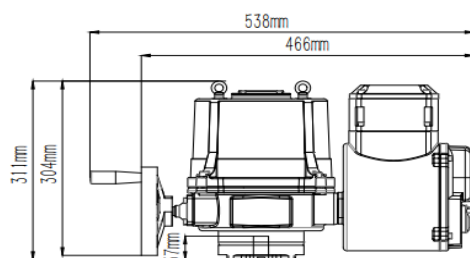
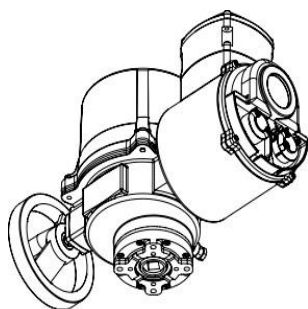
VTM Series Electric Actuator

NON-EX-VTM2-5 Intelligent Integration Electric Actuator Outlined Dimension Diagram



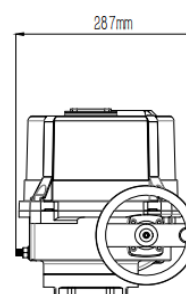
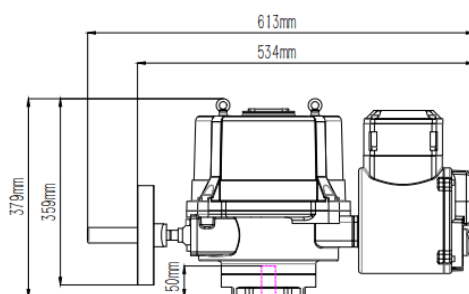
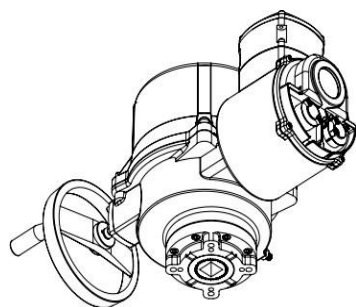
Electrical Interface
M20*1.5
M25*1.5

NON-EX-VTM2 Intelligent Integration



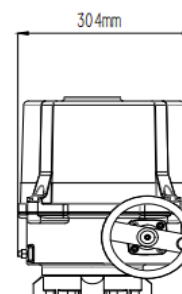
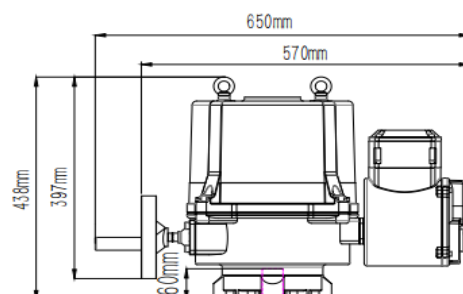
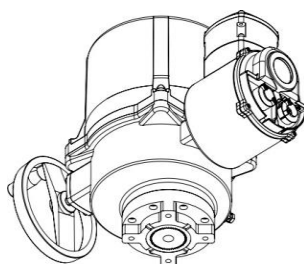
Electrical Interface
M20*1.5
M25*1.5

NON-EX-VTM3 Intelligent Integration



Electrical Interface
M20*1.5
M25*1.5

NON-EX-VTM4 Intelligent integration

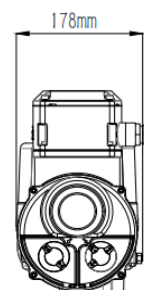
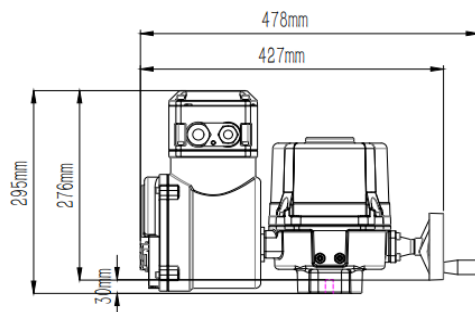
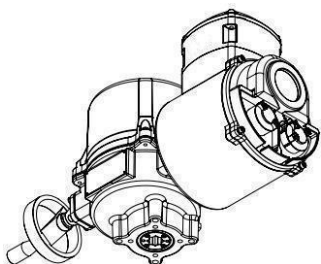


Electrical Interface
M20*1.5
M25*1.5

NON-EX-VTM5 Intelligent Integration

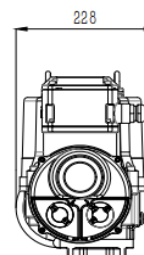
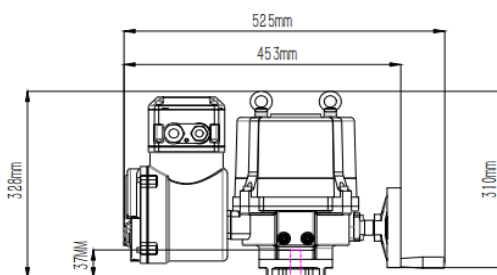
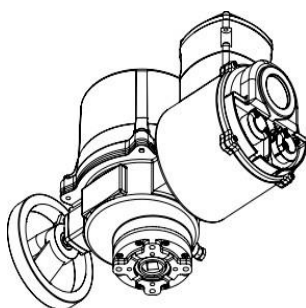
VTM Series Electric Actuator

EX-VTM2-5 Intelligent Integration Electric Actuator Outlined Dimension Diagram



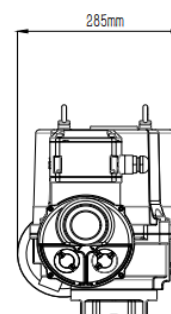
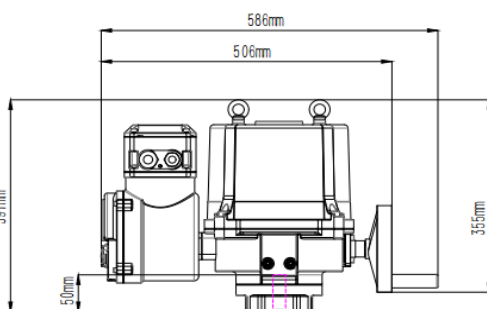
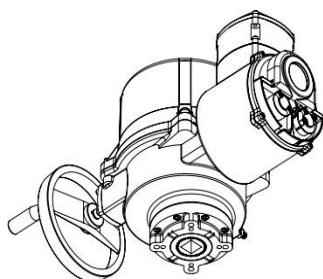
EX-VTM2 Intelligent Integration

Electrical Interface
 M20*1.5
 M25*1.5



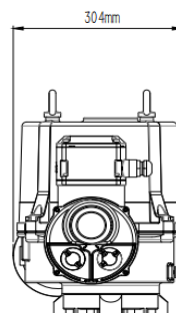
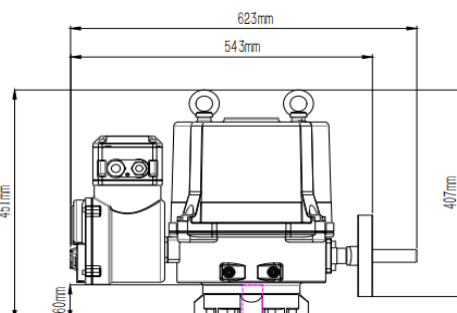
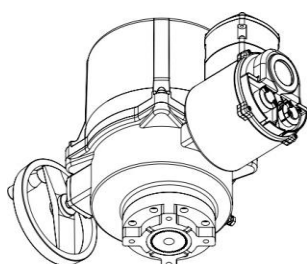
EX-VTM3 Intelligent Integration

Electrical Interface
 M20*1.5
 M25*1.5



EX-VTM4 Intelligent integration

Electrical Interface
 M20*1.5
 M25*1.5



EX-VTM5 Intelligent Integration

Electrical Interface
 M20*1.5
 M25*1.5



VTM Series Electric Actuator

Installation

1. Field Installation

1.1 Indoor Installation Precautions

For mounting in the environment with explosive gas, explosion-proof actuator is required;

For mounting in submerged or outdoor environment, please note us in advance;

Space shall be reserved for wiring, manual operation and maintenance activities.

1.2 Outdoor Installation Precautions

To avoid rainwater and direct sunlight, protective hood shall be installed; or select IP67 or above;

Space shall be reserved for wiring, manual operation and maintenance activities.

1.3 Ambient Temperature

Ambient temperature: -20°C to +60°C;

When ambient temperature is below 0°C, space heater for dehumidification is required inside.

1.4 Fluid Temperature Condition

When used in the valve, the heat from the fluid may transfer to the actuator and temperature goes up. When the fluid is at high temperature, the bracket connecting to the valve need special treatment:

Standard bracket: For fluid temperature below +65°C, or no bracket;

Medium temperature bracket: For fluid temperature above +100°C and below +180°C;

High temperature bracket: For fluid temperature above 180°C.

Note: Customized design and manufacturing available upon request from customer based on functions of driving bushing, which maybe designed in shapes like round shaft, square shaft or other shapes. (It has to ensure the hole is concentric with the outside circle through machining)

Selection

VTM — **T** — **K** — **V** — **C** — **B**
 Model No torque Control Power Type Options
 method Supply

Control method (K): O :Open/Close ICM: Intelligent integrated control	Type (C): E :Ex N:Non-Ex	Color Options (B): RAL: XXXX
Power Supply (V): D: 220 VAC(50 hz) I: 440 VAC/3Ø (60 hz) J: 400 VAC/3Ø (50 hz) A: 400V a.c.50Hz and 440V a.c. 60Hz three phases F: 24 V d. c		

VTM	T(N.M)		k		v				
	N.m	In.lbs	O	ICM	D	I	J	A	F
VTM1	70	620	•	—	•	—	—	—	•
VTM2	200	1770	•	•	•	•	•	•	•
VTM3	450	3983	•	•	•	•	•	•	•
VTM4	500	4425	•	•	•	•	•	•	•
	1100	9735	•	•	•	•	•	•	•
VTM5	2300	20355	•	•	•	•	•	•	•

Model Selection Example:

Example1: VTM3-450-ICM-A-E-RAL5015

Description: Electric Actuator model VTM3, Torque is 450Nm, Intelligent integrated control type.

Voltage is 440V 50Hz and 440V 60Hz(compatible motor).

Explosion-Proof type, Color is sky-blue(RAL5015).

Example2: VTM4-500-O-D-N-RAL7046

Description: Electric Actuator model VTM4, Torque is 500Nm, On-off type.

Voltage is 220V 50Hz.

Non Explosion-Proof type, Color is grey(RAL7046).

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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VTM Series Electric Actuator

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