

V-TORK®



VTM Series Electric Actuator

High performance and reliability

Fully compliant with the latest international standards and regulations

More applicable to a wide range of specifications and torque requirements

Compact design is better suited for a variety of industrial applications



VTM Series Electric Actuator

Overview

- 0°~90° quarter turn electric actuator
- Voltage: DC24V、AC110V、AC220V、AC380V、ACV400V、AC440V
- Humidity resistance: Max relative humidity 90%(non condensing)
- Temperature resistance: -20°C~+60°C (on/off) 、-20°C~+50°C (intelligent integration)
- Seismic capacity: XYZ10g, 0.2 ~ 34Hz, 30mins
- ISO 5211 mounting base
- Protection grade: IP 67
- Shell: aluminum alloy, anodized and coated with polyester powder
- The valve position can be observed through the dial
- Stalinite is adopted for the dial
- Please contact us for the sizing catalog



VTM ON/OFF and Modulating



VTM Intelligent Integration

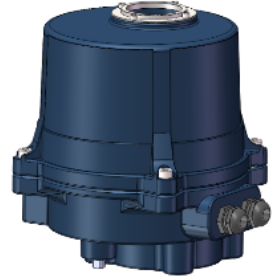
Specifications

Specifications												
Model	Torque	Running time	ISO mounting base	Rated current (A) with 50 Hz						Square mm	Weight	Manual
	N.m	Sec/90°		DC24V	AC110V	AC220V	AC380V	AC400V	AC440V		Kg	
VTM05	20	10	F03-F05	0.2	/	/	/	/	/	11	1.2	Spanner
VTM15	35	12	F03-F05	1.2	0.4	0.3	/	/	/	14	2.8	
VTM25	100	8	F05-F07	3	0.65	0.33	0.26	0.21	/	17	8	
	200	8		4.2	0.89	0.45	0.27	0.21	/			
VTM35	350	8	F07-F10	6.8	1.7	0.8	0.9	0.7	/	17/22	13	
	500	8		8.5	2	1.1	0.9	0.7	/			
VTM1H	50	10	F03-F05-F07	1.6	0.8	0.4	0.2	/	/	14	3.2	Push in hand wheel
	70	15		1.6	0.8	0.4	0.2	/	/			
VTM2H	100	8	F05-F07	3.5	0.73	0.33	0.26	0.32	0.21	17	11	
	200	8		4.2	0.84	0.45	0.27	0.35	0.21			
VTM2	100	20	F05-F07	2.2	0.8	0.6	0.28	/	0.26	17	12	Clutchless hand wheel
	200	30		2.3	0.8	0.6	0.28	/	0.26		12	
VTM3	300	20	F07-F10	3	1.6	0.85	0.39	0.31	0.47	17/22	14	
	450	30		3.6	1.9	0.9	0.4	0.32	0.47			
VTM4	600	40	F10-F12or F10-F14	8.5	1.8	0.95	0.46	0.40	0.54	27/22	22	
	1000	48		10.5	2	1.1	0.5	0.42	0.55			
VTM5	1500	35	F12-F14-F16	/	4.8	2.8	1.2	0.9	1.1	36	43	
	2300	48		/	4.8	2.8	1.2	0.93	1.1			
VTM5+G	4000	81	F12-F14-F16	/	4.8	2.8	1.2	/	1.5	36	78	
	5000	94		/	4.8	2.8	1.2	/	1.5			
VTM6	6000	40	F14-F16	/	/	/	3.5	/	/	40/46	169	

VTM Series Fast Switching Electric Actuator

Overview

- 0°~90° quarter turn electric actuator
- Fast switching compared to standard VTM series product
- Voltage: DC24V、AC110V、AC220V、AC380V、AC400V、AC440V
- Humidity resistance: Max relative humidity 90% (non-condensing)
- Temperature resistance: -20°C~+60°C (on/off)、-20°C~+55°C (modulating)、-20°C~+50°C (intelligent integration)
- Seismic capacity: XYZ10g, 0.2 ~ 34Hz, 30mins
- ISO 5211 mounting base

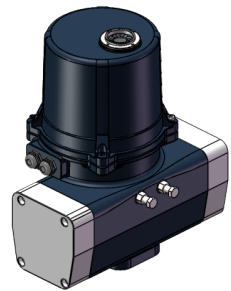


Specifications

Specifications												
Model	Torque	Running time	ISO mounting base	Rated current (A) with 50 Hz						Square mm	Weight	Manual
	Nm	Sec/90°		DC24V	AC110V	AC220V	AC380V	AC400V	AC440V		Kg	
VTM1KS	10	1	F03-F05	1.2	0.4	0.3	/	/	/	14	2.8	Spanner
	15	2.5		1.2	0.4	0.3	/	/	/			
VTM2KS	35	1	F05-F07	3	0.74	0.42	0.26	/	0.21	17	8	
	65	2.5		3.5	0.76	0.4	0.26	/	0.21			
VTM3KS	70	1	F07-F10	7	2	0.76	0.9	/	0.7	17/22	13	
	200	3		8.5	2	0.85	0.9	/	0.7			

VTMR Series Spring Return Electric Actuator

- 0°~90° quarter turn electric actuator
- The valve will be closed with spring return function after power off
- Voltage: DC24V、AC110V、AC220V
- Humidity resistance: Max relative humidity 90% (non-condensing)
- Protection grade: IP 67
- Temperature: -20°C~+60°C (on/off)、-20°C~+55°C (modulating)
- Seismic capacity: XYZ10g, 0.2 ~ 34Hz, 30mins
- ISO 5211 mounting base

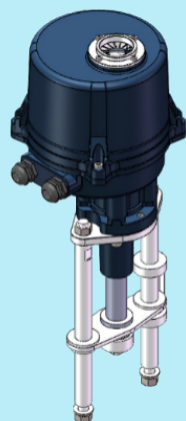


Specifications

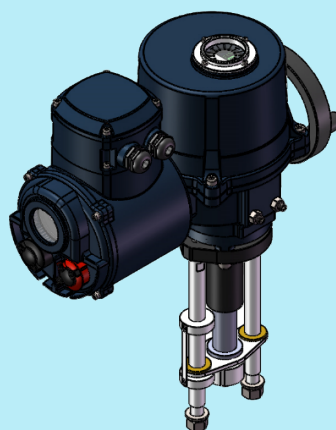
Model	Torque	Start time	Spring return time	Rated current (A) with 50 Hz			ISO mounting base	Square mm
	Nm	Sec/90°		DC24V	AC110V 50/60Hz	AC220V 50/60Hz		
VTMR-2	38	8	3	2.5A	1.2A	0.6A	F05-F07	14
VTMR-3	55	10	8	3.5A	1.6A	0.7A	F07-F10	17
	70	10		5A	1.8A	0.7A		
VTMR-4	140	8	7	8.5A	4.2A	2.2A	F10	22
	210	8		9.5A	4.5A	3.2A		
VTMR-5	300	33	13	21A	5.5A	3.2A	F10-F12	27

VTML Series Linear Electric Actuator

- Linear electric actuator
- Voltage: DC24V、AC110V、AC220V、AC380V、AC440V
- Humidity resistance: Max relative humidity 90%(non condensing)
- Protection grade: IP 67
- Temperature resistance: -20°C~+60°C (on/off) 、-20°C~+55°C (modulating) 、-20°C~+50°C (intelligent integration)
- Seismic capacity: XYZ10g, 0.2~34Hz, 30mins
- When the power is off, the valve can be controlled by a handwheel
- The interior of the handwheel is designed with a worm gear, which is simple and easy for operation
- Space heater is optional to prevent condensation inside the actuator caused by large temperature differences



VTML ON/OFF and Modulating



VTML Intelligent Integration

Specifications

Model	Thrust	Running time	Rated current (A) with 50 Hz					Connection thread	Output dimension	Weight(Kg)	Manual
	K.N	MM/Sec	DC24V	AC110V	AC220V	AC380V	AC440V				
VTM1SL	1.5	1	1.2	0.4	0.3	/	/	If interested, please contact us to discuss technical parameters such as connecting threads, output dimensions and etc.		2.8	Spanner
VTM2SL	4	0.75	2.1	0.51	0.26	0.26	0.21			8	
	6		3.5	0.73	0.33	0.26	0.21			8	
VTM3SL	10	1	6.8	1.7	0.8	0.9	0.7			8	
	15		8.5	2	1.1	0.9	0.7			3.2	Push in hand wheel
VTM1HL	1.5	1	1.6	0.8	0.4	0.2	/			3.2	
VTM2HL	4	0.75	2.1	0.51	0.26	0.26	0.21			11	Clutchless hand wheel
	6		3.5	0.73	0.33	0.26	0.21			12	
VTM2L	4	0.5	1.8	1	0.45	0.3	0.25			12	
	6		3.5	0.73	0.33	0.26	0.21			14	
VTM3L	10	0.5	6.8	1.7	0.8	0.9	0.7			14	
	15		8.5	2	1.1	0.9	0.7			22	
VTM4L	25	0.65	/	4.8	2.8	1.2	1.1			22	
VTM5L	50	0.65	/	7.7	5.1	1.9	1.8			50	

VSM Series Multi-turn Electric Actuator

Overview

- Multi-turn electric actuator with simple and reliable structure
- Graphic dot-matrix LCD screen
- Using the magneto electric absolute encoder, the absolute encoder will not be affected by power failure and interference, the valve position is always correct
- Support multi communication agreement of field bus such as PROFIBUS、FF、MODBUS、HART, etc and multiple redundant control modes
- The accuracy of valve positioning is up to grade one
- Connection mode of plug type or sunflower disk type for easy and fast maintenance
- Enclosure protection class IP68; Explosion-proof grade dIICT4



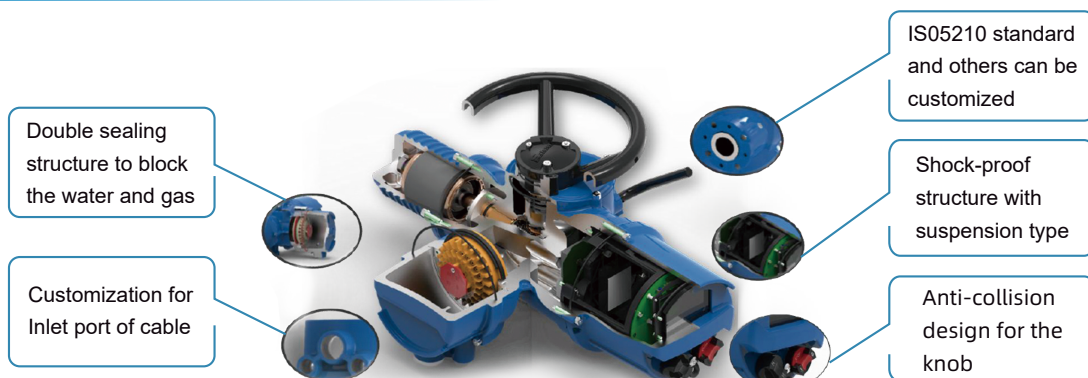
Technical Parameters

Model	380V/50Hz								Weight
	18RPM				24RPM				
	Torque	Motor power	Rated current	Locked current	Torque	Motor power	Rated current	Locked current	
VSM35	35	0.09KW	0.63A	1.5A	35	0.12KW	0.85A	2.1A	36kg
VSM80	80	0.18KW	1.0A	2.5A	80	0.25KW	1.4A	3.5A	36kg
VSM110	110	0.25KW	1.4A	3.5A	110	0.37KW	1.8A	4.5A	37kg
VSM200	200	0.37KW	1.8A	4.5A	200	0.4KW	1.9A	4.75A	60kg
VSM400	400	0.55KW	2.4A	6A	400	0.75KW	3A	7.5A	62kg
VSM600	600	1.1KW	4A	10A	600	1.5KW	5A	12.5A	75kg
VSM1000	1000	1.5KW	5A	12.5A	1000	2.2KW	7A	17.5A	172kg
VSM1500	1500	2.5KW	7.5A	18.7A	1500	3.0KW	9A	22.5A	172kg
VSM2000	2000	4.0KW	10.5A	26.2A	2000	5.5KW	13.8A	34.5A	175kg
VSM3000					3000	7.5KW	17.5A	43.7A	175kg

The torque shown in the table is the maximum allowable set torque in both rotation directions. The locked torque is 1.4 to 2 times for it depending on the rotation speed and voltage.

Other rotation speed can be customized :36、48、72、96、144、192 PRM.

Structure



Vtork Technology is a professional manufacture of valve automation products, committed to provide superior solutions to fluid control industry, including rack and pinion actuators, scotch yoke actuators, intelligent quarter-turn/multi-turn electric actuators and related accessories, as well as various intelligent control products in high precision .



	Electric Actuator	Scotch Yoke	Rack and pinion/Scotch Yoke
Torque Range	Quarter turn 20NM~5000NM Multi-turn 50NM~3000NM	Double acting 250000 NM Single acting 120000 NM	Double acting 12000 NM Single acting 5500NM
Model	Quarter turn VTM1~VTM5 Multi-turn VSM05~VSM300	VTS01~VTS04 VTS1~VTS8	VT050~VT400 VTY100~VTY3000
Production site	ChangZhou, China	HangZhou, China	WuXi , China
Production area	4000 M ²	8000 M ²	14000 M ²
Capacity	48000Pcs/year	12000Pcs/year	360000Pcs/year
Established in	Jan, 2019	Apr, 2017	May, 2012

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