

Actuators and Controls

The Trusted, Passionate and focused Partner in Valve Automation

At VTM, The founding principle of VTM is simple: to Listen our customers needs first, to develop the innovative valve actuators solutions , to meet the unique needs of our customers, Along the way, To help our customers to solve the problems in Valve Automation. We are growing our brand in Pneumatic and Electric Actuators, Accessories..



WHY WE ARE DIFFERENT

We offer a complete valve automation solution by the applications experience and customization capabilities, with an experienced support team to guide you in selection, installation, and project support. In addition we maintain an extensive supply of product inventory on hand so that we can quickly fulfill orders and reduce wait times. Our sales and support staff are readily available and accessible so that customers get the answers they need quickly.

-  Experienced team
-  Large inventory
-  Convenient consultation

THE TARGET WE ARE PURSUING



- To built A strong Reputation in Providing Quality, Cost Effective , Reliable And Robust Performance Solutions for Valve Automation,
- Included Pneumatic Actuators, Electrically Actuators, Actuated Valves.



COMMITMENT TO QUALITY

At VTM means performance, All products manufactured by VTM are warranted against defects in material and workmanship for a period of 18 months from the day of startup. Each of our products are tested at the factory. we are confident that our products meet or exceed all applicable standards before they ever leave our facility. We are an ISO 9001-2015 certified company. Our Valve Actuators Has Applied for CE, Explosion-proof Certificate, IP67 Weather proof etc....

Electric Actuator Quarter-Turn Design

Description

I & IM Series Quarter-Turn Electric Actuator is used for controlling 0270 degree Rotation valves and other similar products, such as butterfly valve, ball valve, damper, flapper valve, cock valve etc...It widely applies to petroleum, chemical, water treatment, shipping, peper, making, power plant and other industries.

Drived by 380V/220V/110VAC OR 24V/110VDC Power,Inputs 4e-20mA Or 0.40 VDC control signal,Moves valve to the right position, and achieve to automatic control.The Maximum output toque is 2000 N.m



Main Product features

Designed for small quarter-turn applications.

Protection class to IP67, NEMA4 and 6

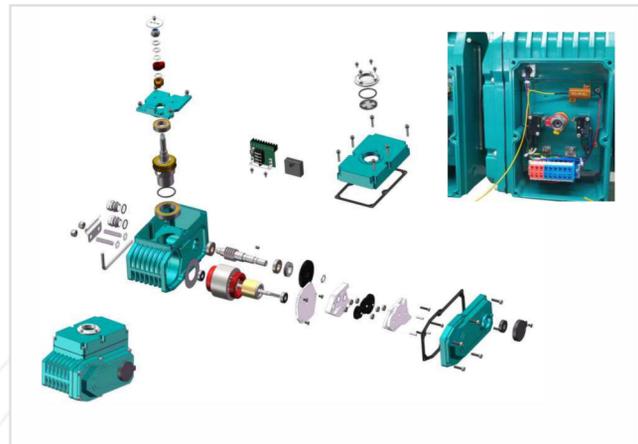
The Actuator can automate the valves requiring up to 270 degree rotation.To help protect the components and extend the actuator's life, an anti-condensation A thermal protector is provided to protect the motor from over heating.

Testing For All Actuators

All actuators manufactured by VTM are individually tested, Testing is carried out to check the leakage in both internal and external,The angle of rotation and Torque values.All bodies are stamped with year,month of production,size and serial number.

Performance features

Function	On/Off or Modulating
Material	
Housing	Aluminum alloy, epoxy powder coated
Gear	Steel / aluminum bronze
Screws	Stainless steel
Indicator Cover	Polycarbonate
Shaft / Adaptor	Alloy steel
Seal	NBR
Lubrication	Aluminum based grease
Technical Data	
Power Supply	24VDC, 110VAC, 220VAC
Motor	Squirrel cage asynchronous motor
Limit Switch	SPDT, 250VAC10A, each for Open and Close positions
Rotation	90o (± 10o) other rotation on request
Manual Operation	Mechanical handle standard
Conduit Entry	2 x M18
Operating Temp	-20oC to +70oC
Ambient Humidity	Max. 90% RH
Vibration Tested	XYZ10g, 0.2~34Hz, 30 minutes
Mounting	ISO5211
Torque Output	30 Nm to 1000 Nm (2000 Nm on request)
Self-locking device	Self-locking by worm and worm gear



Options Available

Space Heater, 7 ... 10W (110/220VAC)*
Stall Protection, internal overheating protection, open @ 120oC / close @ 97oC (± 5oC)*
Position Feedback Potentiometer (1K ... 10K)*
Position Feedback Sensor with Current output (4 ... 20mA)*
Proportional Control Unit for modulating control (input/output signal, 4 ... 20mA, 1 ... 5 VDC, 1 ... 10VDC)*
Field control unit (Local control open/stop/close switch, Local/remote control switch)*
Power Failure Self Reset

Standard & Technical datas

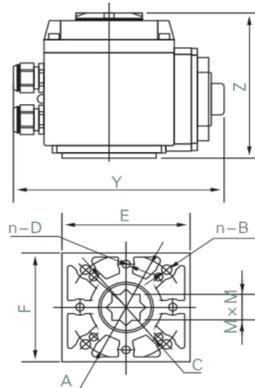
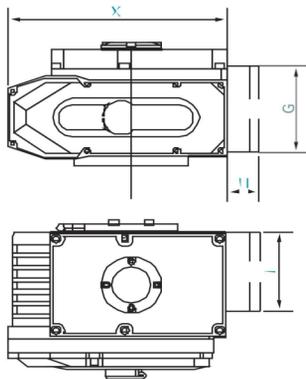
Indicator	Dome Type(Option: LED Light Inside)
Ambient Temp	-20°C~+70°C
Limit Switches	2 open/close+dry contact 2 open/close
Manual Operation	Hex key (Option: Handwheel)
Space Heater	5W(110/230VAC,24VDC)
Lubrication	Aluminum base grease(EP type)
Surface Treatment	Anodizing

Enclosure	Waterproof Level IP67,NEMA4 and 6
Power Supply	AC110/220V 1PH±10% 50/60HZ.DC24V
Travel Angle	90°±5°(Extension up to 270°)
Self Locking	Provide self locking by worm gear
Conduit entries	2PF 1/2"(Option:M20x1.5,NPT1/2")
External Coating	Dry powder, epoxy polyester
Material	Aluminum Alloy,Steel,Alloy Bronze

Technical Parameter and Specifications (On/Off or Modulating Version)

Model	Max Output Torque (N.M)	Operating Time 90°(Sec.) 220VAC/ 24VDC	Drive Shaft(mm)				Motor (W) 220V/ 24VDC	Single-phsae rated current(A) 220VAC / 24VDC	Weight (kg)	Flange Size
			Square	Deep	Round	Deep				
I-03/IM-03	30N.m	10/	9X9	13.5	Ø12.6	26	8	0.15/	2.1	F03/F05
			11X11	15.5						
I-03/IM-05	50N.m	30/15	11X11	15.5	Ø12.6	26	10	0.25/2.2	3.6	F05/F07
			14X14	18						
I-08/IM-08	80N.m	30/15	11X11	15.5	Ø15.78	26	10	0.25/2.2	3.6	F05/F07
			14X14	18						
I-10/IM-10	100N.m	30/15	14X14	18	Ø15.78	28	15	0.35/3.5	4.6	F05/F07
			17X17	22.5						
I-15/IM-15	150N.m	30/15	14X14	18	Ø18.95	28	15	0.37/3.5	4.6	F05/F07
			17X17	22.5						
I-20/IM-20	200N.m	30/15	22X22	26	Ø22.13	45	45	0.3/7.2	8.9	F07/F10
I-40/IM-40	400N.m	30/15	22X22	26	Ø28.48	45	60	0.33/7.2	8.9	F07/F10
I-60/IM-60	600N.m	30/15	27X27	32.5	Ø31.65	45	90	0.33/7.2	9.3	F07/F10
I-80/IM-80	800N.m	40/20	27X27	32.5	Ø31.65	45	180	0.47/11	14.3	F10/F12
I-100/IM-100	1000N.m	40/20	27X27	32.5	Ø31.65	45	180	0.47/11	14.5	F10/F12
I-200/IM-200	2000N.m	44/22	27X27	32.5	Ø31.65	45	180	1.5/15	14.5	F10/F12

Dimension in mm



ISO5211
Mounting Interface

Basic Actuator Outline Dimension(Unit:mm)

Electric Rotary Actuator with Proportional



4-20mA Input&output

MODEL	X	Y	Z	A	N-B	C	N-D	E	F	G	H	I	MXM
I-03/IM-03	123	100	115	Ø50	4-M8	Ø36	4-M6	50	50	114	40	150	9X9
													11X11
I-03/IM-05	161	121	125	Ø70	4-M8	Ø50	4-M6	66	66	114	40	150	11X11
													14X14
I-08/IM-08	188	145	127	Ø70	4-M8	Ø50	4-M6	100	90	114	40	150	11X11
													14X14
I-10/IM-10	188	145	127	Ø70	4-M8	Ø50	4-M6	100	90	114	40	150	14X14
													17X17
I-15/IM-15	188	145	127	Ø70	4-M8	Ø50	4-M6	100	90	114	40	150	14X14
I-20/IM-20	233	170	153	Ø102	4-M12	Ø70	4-M10	140	130	114	40	150	17X17
I-40/IM-40	233	170	153	Ø102	4-M12	Ø70	4-M10	140	130	114	40	150	22X22
I-60/IM-60	233	170	153	Ø102	4-M12	Ø70	4-M10	140	130	114	40	150	22X22
I-80/IM-80	268	255	164	Ø125	4-M12	Ø102	4-M10	140	130	114	40	150	27X27
I-100/IM-100	268	255	164	Ø125	4-M12	Ø102	4-M10	140	130	114	40	150	27X27

V.A. VALVES

ISO 9001:2015 CERTIFIED

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