

Động cơ đóng mở van Flowinn - ON - OFF - EFMB - H - DC - AC 24V

AC 110v , AC 220v , AC/DC 24v

Electric Actuator / Ball Valve

EF(O)M & EMT Actuator Series







EOM2-7 A





EOM10-12 Actuator



EOM13-15 Actuator



EMTMX Actuat

Electric Actuator Installation and Wiring

Attention:

- Attention:
 Only available for connecting by copper wire, wiring method must meet electrical specifications of local, regional and national standard. Power supply over the rated value of actuator is not allowed.
 To ensure the electric actuators are better protected from water, please pay attention to the cable specification:(1) for EFM1/A/B-H series, please ensure the diameter of the cable is 6-12mm;(2) for EO(F)M15 & EMT series, please ensure the diameter of the cable is 10-14mm.
 When input signal of modulating actuator (input signal/feedback signal) is current signal (4-20mA), pls notice that impedance value falls out of the scope mentioned above will cause inaccurate controlling signal & feedback signal. (Pls see diagram.)
 To ensure the reliability of the control, we advise to wire the signal circuit and power circuit separately to the actuators and please ensure the earth wire is firm and reliable.
 Working time:S2 standard 30 min.

Warning: Risk of damage to human body Pis cut off power supply before wiring. Accident touch of dangerous electriferous components might cause

Warning: Risk of damage to property 1. Do not turn on power before confirming wring is correct. Short circuit and wrong connection will leads to permanent equipment damage. 2. Please pay attention to indicator on the top of actuator. Barbaric operation on hand wheel is prohibited when it passes totally close/open position. 3. Motor of actuator has the function of over-temperature protection. When valve gets stuck or other abnormal happens, failing to be opened or closed in a right way, motor will get into over-temperature protection. At this time, valve can't be opened or closed to the required position. Please check valve or other abnormal occasion. After the breakdown is solved, actuator will be back to normal accordingly.

Actuator installation steps:

- Put the actuator vertical alignment onto valve, notice stem of valve needs to fit into adapter of actuator, turning
 - actuator hand wheel to adjust adapter position, clockwise to
- actuator hand wheel to adjust adapter position, clockwise to close / anticlockwise to open. 2. Actuator is fully closed by manufactory (the top indicator point to "C"), valve opening needs to be same as actuator "open to open, close to close". 3. If it is hard to fix screws, pls slightly turn the actuator hand-wheel

- If it is hard to its screws, pissingly turn the demonstration of the semigravity of

Actuator wiring steps:

- Actuator wiring steps: 1. Loose 4 screws on actuator cover and then take cover off. 2. Wiring according to the attached wiring diagram on the surface of cover inside. 3. Recheck and then power on after confirming the wiring is right. 4. Turning actuator on to make sure opening/closing function and 2 limited positions are correct. 5. Put the cover back and then fix 4 screws.

Setting procedure of modulating actuators (Noticel Operated by professional person)

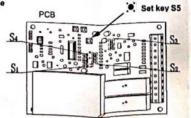
Calibration	LED	n PCB	Actuator Movement							
1. Supply power to terminal 1 and 2.	*	Lit	Actuator moves to the position as indicated by control signal.							
	0	Dark	Actuator moves to "100%" position (valve open).							
2. Press button S5 for 5	-`	Flash	Actuator stops at "100%" position (valve open), indicate light flashes, and then the actuator is ready to move towards "0%" position (valve closed).							
seconds	0 .	Dark	Actuator moves to "0%" position (valve closed).							
	-À-	Flash	Actuator stops at "0%" position (valve closed). The indicate light flashes, and then the calibration finished.							
3 Calibration finished			Actuator moves to the position on indian to the							

Actuator moves to the position as indicated by control signal. 3. Calibration finished.

*Remark: Calibration method is shown as table above. The factory has set it OK, there is no need to reset when normal use, unless there is something wrong with the output signal.

Adjustment of input/output signal for modulating type The switch diagram of PCB

1000	Signal	In	put	Output				
	Cigilai	S1	S2	S3	S4			
Default	4-20mA	:	i		:			
	0-10V	:	:		:			
	2-10Y	:			:			



Version: 14

Trouble shooting

Date: Dec .09. 2015

Failure	Reason	Action					
Actuator fails to act	 Loss power supply (no power). No input signal or input value is wrong. Wire breaks or separates from terminal block. Motor overheating. Overheating protector of motor acts. Limit switch acts in the middle of opening location. Capacitor of motor breaks. F. Enamel covered wire of motor breaks. Connect wrongly power supply to input signal terminal (modulating type). 	 Check voltage of power. Check input signal. Wire, change terminal block. Wait motor back to cool. Adjust stroke_switch cam. Replace capacitor. Replace PCB. 					
Actuator keeps acting back and forth	 2.1. The signal is not stable. 2.2. Potentiometer can't contact very well or damaged (modulating type). 2.3. One of the gears around potentiometer is loose (modulating type). 	2.1. Check the input signal.2.2. Change potentiometer.2.3. Use tools to fix the screw of gear.					
Input and feedback signal don't match with each other(modulating type)	 Input signal is wrong. Wrong PCB adjustment (need to be operated by professional person). The position of gear on potentiometer is wrong. 	3.1. Check the input signal.3.2. Reset follows the setting procedure.3.3. Readjust the gear on potentiometer.					
No feedback signal	The signal wire is opening or can't connect well.	Check if wiring is done according to wiring diagram.					

*Remark: When water vapor appears inside actuators, which are unpowered after installation, please connect power to heater to dry them before operation .

Table 1: EF(O)M1~15 datasheet of actuator; AC24/110/220/240V 1 phase 50/60Hz; EOM2~15 can be AC380v- 440V 3 phases 50/60Hz

Unit mm

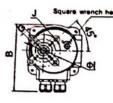
Model		Torque		Close T (Sec)	ime	Dames AM			c	0	E	F	вG	н			1505211	Weigt
		(N-m)	AC/DC24V	AC110/ 240V AC38		Power (W)	A	B	ľ	ľ	1	ľ	~	"		1	1505211	(kg)
EFM1	ON/OFF Modulating	35	8	11 -		10	162 192		-		===	=	11×11					3
EFMA	ON/OFF Modulating	50	10	15	-	10	162 192	62	145	79 -	=		11×11 14×14			4-M5	F03	3
EFM1-H	-	35	8	11	11 -	10		145			-	-			50 70	4-M6 4-M8	F05 F07	36
EFMA-H	ON/OFF	50	10	15	-	10	188 218		108	165	-	-	11×11 14×14		10	4-100	FU/	3.6
EFMB-H	Modulating	80	15	22	-	10					-	-	14×14				1	36
EC	DM2	100	14	1	9	40	265	123	79	216	120	240	14×14	35	70	4-M8	F07	11
EC	омз	200	28	39		40	265	123	79	216	120	240	17×17	35	70	4-M8	F07	11
EOM3A		300	28		9	40	265	123	79	216	120	240	17×17	35	120	4-M10		
EC	EOM4 400 21		29		90	321	187	103	262	150	297	22×22	55	102	4-M10	F10	22	
EC	DM5	600	28	39		90	321	187	103	262	150	297	22×22 27×27	55	102	4-M10 4-M12	F10 F12	22
EC	DM6	800	34	47		90	321	187	103	262	150	297	27×27	55	125	4-M12	F12	22
EC	DM7	1000	34	47		120	321	187	103	262	150	297	27×27	55	125	4-M12 4-M16	F12	22
EO	M7A	1300	34	47		120	321	321 187	103	262	150	297	27×27		140	4-1110		
EC	EOM8 1700 25		25	34		200	378	241	119	293	161	346	27×27	65	125	4-M12 4-M16	F12 F14	36
EÒ	MBA	18A 2000		34		200	378	8 241	119	293	161	346	27)(27	X27	140			
EC	OM9	2300	34	4	7	200	378	241	119	293	161	346	36×36	65	125 140	4-M12 4-M16	F12 F14	36
													•		165	4-M20	F14	
EOM10		3500	55	76		200	532	116	215	293	302	182	40×40	85	140	4-M16	F14	76
	M11	5000	76		05	200	532	116	-	293	302	182	46×46	85	165 140	4-M20 4-M16	F16 F16	76
	M12	0000					543	160	215	293	343	168	55×55	130	165	4-M20 8-M16	F25	107
EU	M12	8000	103	1	43	200	543	160	215				55×55		254	8-M16	F25	
EC	M13	13000	-	-	109	400	672	520	-	293	281	331	75×75	120	298	8-M20	F30	218
EO	M14	16000	-	-	129	400	672	520	-	293	281	331	55×55 75×75	120	254 298	8-M16 8-M20	F25 F30	218
EC	M15	20000	-	-	155	400	672	520	-	293	281	331	55×55 75×75	120	254 298	8-M16	F25 F30	218

Table 2:EMTMX data sheet of actuator: AC380-440V 3 phases 50/60Hz

Unit: mm

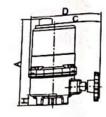
Model	(Nm)	Open/Clo se Time	Power (W)	A	B	с	D	E	F	G	ОН	1	J	ФK	ISO 5211	(Kg)
	430		276								-	4-M10		102	F10	60
EMTMX-3305	130	23RPM	375	234	150	271	5/1	275	174	355	D19X19	4-M12		125	F12	
		000014	700	0.0.1			7 586 275 174 355 019	-	4-M10		102	F10	60			
EMTMX-3310	250	23RPM	750	234	150	287	586	275	174	355	D 19X19	4-M12		125	F12	
			45.00									4-M10	55	102	F10	65 65
EMTMX-3320	450	23RPM	1500	234	150	338	637	275	174	355	D22X22	4-M12		125	F12	
EMTMX-3330	720	23RPM	2250	234	150	368	667	275	174	355	D27X27	4-M12		125	F12	

Actuator outline Dimension, pls refer to Table 1&2

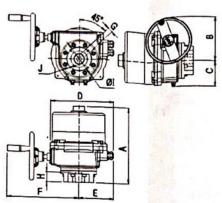




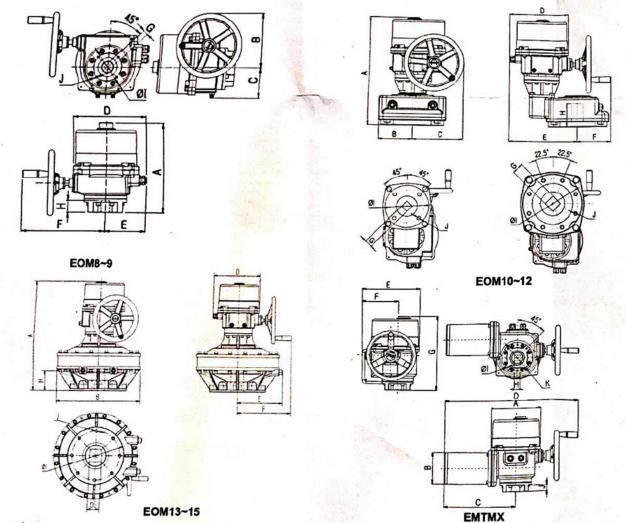
EFM1/A



EFM1/A/B-H



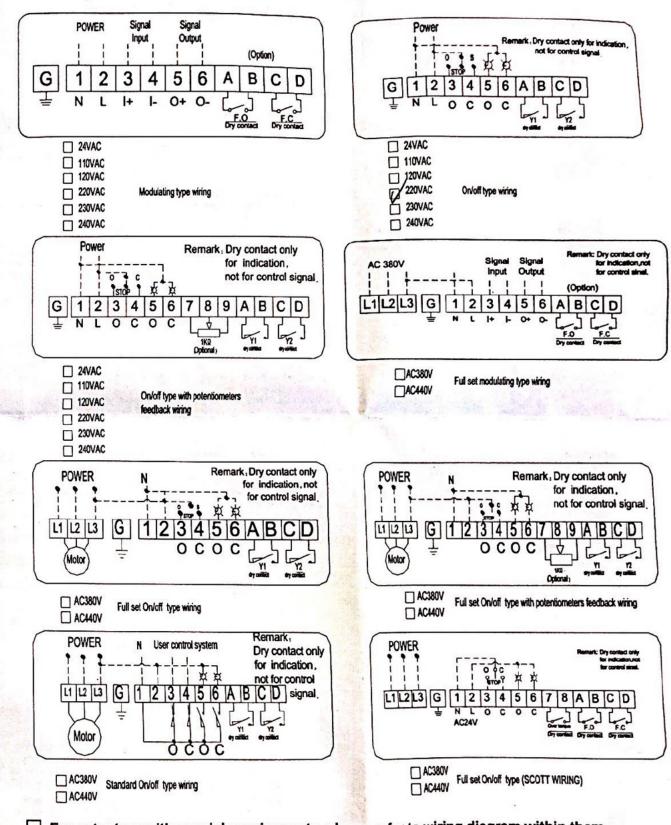
EOM2~7 EFM2 ~9



*Remark:

- EFM1/A is without hand wheel type, Please use 8# wrench to operate as arrow direction on the bottom of actuator. Other types can offer hand wheel function, either On/off or modulating type.

Customer wiring diagram (Dotted Line)



For actuators with special requirements, please refer to wiring diagram within them.

Sản phẩm khác



Electric Actuator FLOWINN - EOM 10~11~12

Xem thêm Electric Actuator FLOWINN - EOM 10~11~12



Electric Actuator FLOWINN - EOM10

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Electric Actuator FLOWINN - EFMA - H

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Xem thêm Electric Actuator FLOWINN - EFMA - H

Electric Actuator FLOWINN - EFMA



Động cơ điện đóng mở van Flowinn - ON - OFF - EFMB - 3 - K5

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Xem thêm Động cơ điện đóng mở van Flowinn - ON - OFF - EFMB - 3 - K5



Động cơ điện đóng mở van Flowinn - ON - OFF - EFMB - H

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