LEADING OUT OF PROFESSIONALISM

Wenzhou Valvespro Flow Control Technology Co.,Ltd

Wenzhou Valvespro Flow Control Technology Co.,Ltd

Add : NO.649-1 Jingde West Road Guoxi Road Ouhai District, Wenzhou, Zhejiang Province, China. Tel: 86-577-86115146 Fex: 86-577-86110708 Emai : sales@valvespro.com Skype: shaozhiqiang1688 Whatsapp: +8613777771223 Viber : 008613777771223 ICQ: 652452871 Web: www.valvespro.com

VALVESPRO AUTOMATIC **INSTRUMENTS & VALVES**











Enterprise brief introduction

Wenzhou Valvespro Flow Control Technology Co.,Ltd is a hi-tech companyspecializing is R&D and manufacture of electric and pneumatic actuators and automatic control valves,Boasting strong technical strengths,Advanced production processed,complete sesting equipment,excellent product performance,CAD development design,CIMS computer network management,machining centers and CNC tools.It's active in implementing the management standnards of the ISO9000 quality certification system and all of its products have been certified by CE.

Our company has provided hundreds of thousands of sets of electric actuators, Electric ball valves, various electric butterfly valves and pneumatic ball valves, pneumatic butterfly valves, Pneumatic/electric control valves. They are widely applied for automatic fluid control projects and equipment transformation in natural gas, oil, chemical engineering, Metal smlting, Paper making, Printing and yeing, Electricity, Mining, Biopharmacy, Household chemicals, Food and beverage, Watertretment, Air handling, Mechanical equipment and other industries.

Our company provides users with consulting,Design,Type selection,Installation and solving of various control programs,And maintains an honest operation policy with quality and customers first,Aiming for availability,Creditability and reliability to establish a first-rate brand of valvespro. With preferential prices and excellent after service,We warmly welcome both domestic and foreign customers to visit us,Do business with us,Establish a long-term cooperation re;ationship with us,Share valvespro's technical resources and jointly expand both domestic and overseas markets of control valves.





Sales Network











I. Product Characteristics

1. Strong functions: available for every type, including intelligent regulation, proportion, switch and signal output types;

2. Compact and light: only approximately 35% of the volume and weight of traditional products;

3. Beautiful appearance: a housing with aluminum alloy die casting, being beautiful and smooth, with less electromagnetic interference;

4. Reliable performance: use imported brand-name products for key parts like bearings and electric elements;

5. High-standard protection: tested as per the IP68 high-standard protection level (by Shanghai Inspection and Testing Institute of Instruments and Automation Systems);

6. Precision and anti-wear: the worm gear output shaft is integrated and forged with special copper alloy, featuring high strength and strong wear resistance;

7. Minimal hysteresis: the integrated structures avoids key gap clearances and features high transmission accuracy;

8. Safety assurance: 1500V withstand voltage testing, F-class insulation motor and CE certified to ensure safety;

9. Easy matching: use single-phase power supply and simple external circuit, or optional for 380V and DC power supply;
10. Easy to use: free of oiling and spot check, water-proof, rust-proof and available for any angle of installation;
11. Multi-speed: the whole-process time is optional for 9, 13, 15, 30, 50, 100 or 150 seconds (the factory default has been set);
12. Intelligent numerical control: the intelligent control module is integrated inside the motor actuator body, unnecessary for any

external localizer, featuring digital setting and tuning, high precision, self-diagnosis and multiple functions.

II. Model Designation

JYL-10A/30S/AC220V/F05-07/GC

Heating dehumidifier, being "N" if not selected

Overtorque protection function, being "N" if not selected

Installation mode: F for upright installation (ISO5211) and B for standard installation

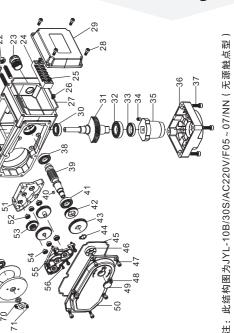
Power supply type

- 0~90°opening/closing time
- Control circuit form
- Actuator output torque ÷10

. .

Electric actuator series model

	Part name	Hexagon socket head cap screw	Bearing	Worm	Flat key	Bearing	Locknut	Screw gear	Shaft collar	O-ring	Oil seal	Anti-loose hexagon socket head cap screw	Phillips screw (assembly)	Dustproof plug	Electric actuator - front cover	Electric actuator - deceleration box 1	Bearing	Electric actuator - reduction gear assembly	Bearing	Electric actuator - deceleration box 2	Phillips screw (assembly)	Phillips screw (assembly)	Dial pointer	Pointer pole	Rubber plug	Wavy spring gasket	Bearing	Insulating isolation plate	Motor stator	Motor rotor	Bearing	Insulating isolation plate	Motor cover	Oil seal	Oil seal shield	Phillips screw (assembly)	
	Number	4	1	1	1	7	-1	1	1	1	1	9	1	1	1	1	З	m	с	1	5	1	-	1		-1		-1			-		1	1	-	2	
	No.	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	99	67	68	69	70	71	
	r Part name	Indication window hood	Hexagon socket head cap screw	Sight glass	O-ring	Electric actuator - top cover	Anti-loose hexagon socket head cap screw	O-ring	Phillips screw	Dial	Phillips screw (assembly)	Travel switch	Insulating shield	Insulating pad	Hexagon socket set screws	Travel stopper	Phillips screw (assembly)	Electric actuator - top cover	Phillips screw (assembly)	Capacitor	Electric actuator - housing	Limit bolt	External hexagon nut	Waterproof cable joint	Connecting terminal	Phillips screw	Phillips screw 🕀	O-ring	Anti-loose hexagon socket head cap screw	Electric actuator - incoming line cover	Bearing	Worm gear	Bearing	Oil seal	Hexagon socket set screws	Connecting bushing (ISO5211)	Mounting seat (ISO5211)
	Number		4				4	-			4	4	2	2	4	2	4			-		2	2			2			4				1	1			
Parts	No.		2	m	4	ъ	9	Г	∞	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36



Product Structural Diagram of JYL-Series

Overall Dimensions and Performance Parameters of JYL-05 Series



Standard type

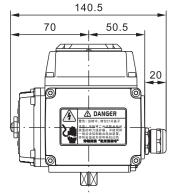


Upright installation type (ISO5211)

Model				JYL-05	5					
Power Performance supply	DC12V	DC24V	DC220V	AC24V	AC110V	AC380V	AC220V			
Motor power		20W								
Rated current	3.8A	2A	0.21A	2.2A	0.48A	0.15A	0.24A			
Output torque	30	0Nm/50N	lm	15Nm/30Nm/50Nm						
Service time		6S/10S			10S/	20S/30S				
Control circuit	Types A, B, C, D, E, F, G and H									
Rotation angle			0~	360°adju	stable					
Total weight				2.4Kg						
Insulation resistance	100	MΩ/300	VDC		100MG	2/500VDC				
Withstand voltage class	500	VAC/1mir	nutes	1500VAC/1minutes						
Protection class				IP67						
Ambient temperature		-25°C~+	60°C (cust	omized fo	or other te	emperatur	es)			
Installing angle			360° ar	ny ang l e i	nstallatio	۱				
Shell material		Aluminum alloy precision die casting								
Optional functions			Heat	ting dehu	midifier					

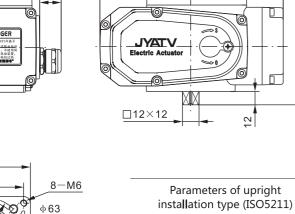


Standard type

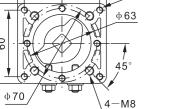


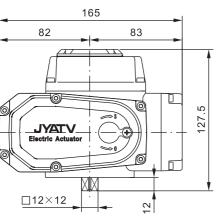
80

68



Standard type

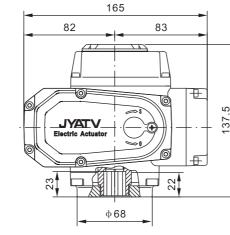


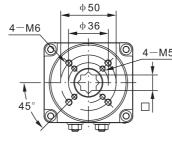


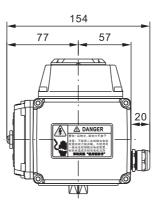
Interna square core

Flange

Stem

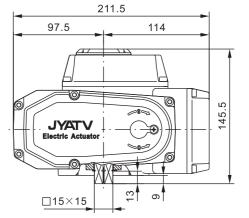






98

82



4-M6 4-M8	Paramete installation
<u> </u>	Internal square core
45°	Flange
×	Stem

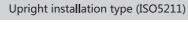


□9×9 □11×11

□14×14

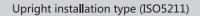
F03 F05

Height≤20mm

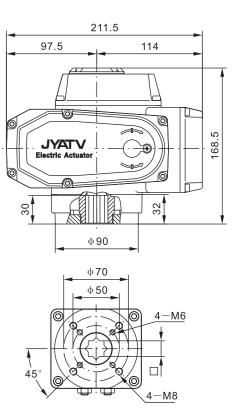


			JYL-10)								
DC12V	DC24V	DC220V	AC24V	AC110V	AC380V	AC220V						
	40W			2	23W							
4.8A	2.4A	0.32A	3A	0.64A	0.19A	0.32A						
	100Nm 50Nm/60Nm/100Nm											
10S 13S/15S/20S/30S												
Types A, B, C, D, E, F, G and H												
0~90° adjustable												
			4.2Kg									
100)MΩ/300\	/DC		100MC	2/500VDC							
500	VAC/1min	utes		1500VA	C/1minute	25						
			IP67									
	-25°C~+6	50°C (cust	omized fo	or other te	emperatur	es)						
		360° ar	ny ang l e i	nstallatior	1							
	Alı	uminum a	lloy preci	sion die c	asting							
	Over torque protection, Heating dehumidifier											

Overall Dimensions and Performance Parameters of JYL-10 Series



ers of upright type (ISO5211) □9×9 □11×11 □14×14 □17×17 F03 F07 Height≤28mm





Overall Dimensions and Performance Parameters of JYL-20/40 Series



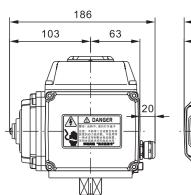
Standard type



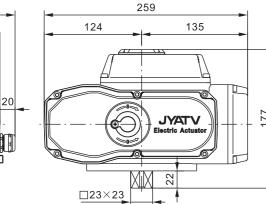
Upright installation type (ISO5211)

Model			JYL-2	20/40						
Power Performance supply	DC24V	DC220V	AC24V	AC110V	AC380V	AC220V				
Motor power			40W,	/60W						
Rated current	8A	0.35A	5A	5A 0.9A		0.48A				
Output torque	200N	200Nm 200Nm/400Nm								
Service time	105			155/30	DS/60S					
Control circuit	Types A, B, C, D, E, F, G and H									
Rotation angle	0~90°adjustable									
Total weight			7.2	2Kg						
Insulation resistance	100MΩ/	'300VDC		100MΩ/	/500VDC					
Withstand voltage class	500VAC/	1minutes		1500VAC	/1minutes					
Protection class			IP	67						
Ambient temperature	-2	25°C~+60°C	(customize	d for other	temperature	es)				
Installing angle		3	60° any ang	le installatio	on					
Shell material		Alumir	ium a ll oy pi	recision die	casting					
Optional functions	Optional functions Over torque protection, Heating dehumidifier									

Upright installation type (ISO5211)

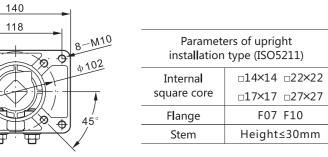


00

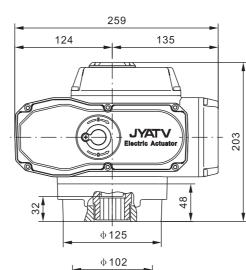


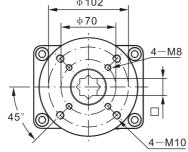
F07 F10

05



Standard type

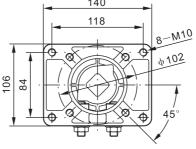




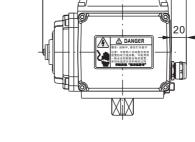
Overall Dimensions and Per

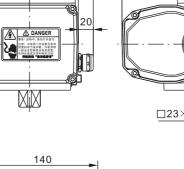


Standard type 186 259 103 124 63 A DANG JYATV MiX 22 □23×23



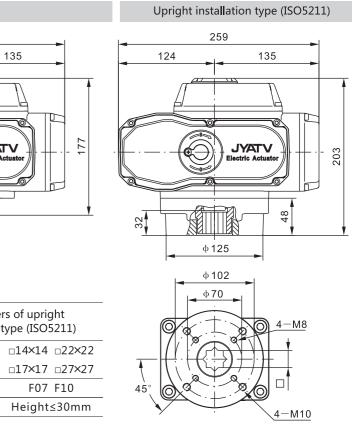
Paramete installation	
Internal square core	
Flange	
Stem	ŀ





erformance	Parameters	of	JYL-50/60 Series
	i arameters	U .	

JYL-50/60												
DC24V	DC220V	AC24V	AC110V	AC380V	AC220V							
		90W										
7A	0.9A	8A	2A	0.45A	0.92A							
	500Nm/600Nm											
155/305/605												
Types A, B, C, D, E, F, G and H												
0~90°adjustable												
		81	٢g									
100MΩ/	/300VDC		100MΩ/	'500VDC								
500VAC/	1minutes		1500VAC	/1minutes								
		IP	67									
-2	25°C~+60°C	(customized	d for other t	emperature	es)							
	360° any angle installation											
Aluminum alloy precision die casting												
Over torque protection, Heating dehumidifier												



Overall Dimensions and Performance Parameters of JYL-100/200 Series



Standard type

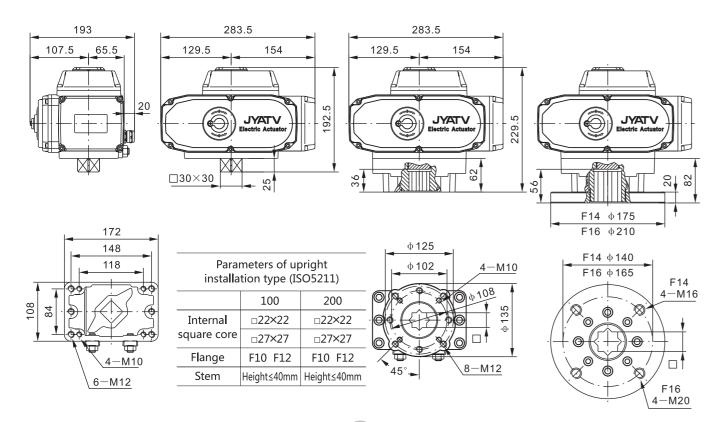


Upright installation type (ISO5211)

Model		JYL	100		JYL-200					
Power Performance supply	AC24V	AC110V	AC380V	AC220V	AC24V	AC110V	AC380V	AC220V		
Motor power				10	0W					
Rated current	9A	2.2A	0.48A	1.2A	9A	2.2A	0.48A	1.2A		
Output torque	300	Nm/800	Nm/1000)Nm	2000Nm					
Service time		15S/3	0S/60S		1005					
Control circuit			Types	A, B, C, I	D, E, F, G	, G and H				
Rotation angle		0~90°adjustable								
Total weight		11.	5Kg			12.	1Kg			
Insulation resistance				100MΩ/	′500VDC					
Withstand voltage class			1	500VAC	/1minute	es				
Protection class				IP	67					
Ambient temperature		-25°C~+60°C (customized for other temperatures)								
Installing angle		360° any angle installation								
Shell material		Aluminum alloy precision die casting								
Optional functions		Over torque protection, Heating dehumidifier								

Standard type

Upright installation type (ISO5211)

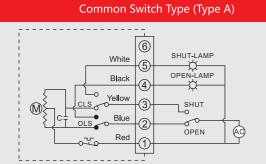


Performance Parameters of Intelligent Regulation Type (Type E)

Model	JYL-05E	JYL-10E	JYL-20E	JYL-40E	JYL-50E	JYL-60E	JYL-100E	JYL-200						
Parameters Power supply Performance		DC12V、D	C24V、DC220))V、AC24V、/	AC110V、AC2	20V、AC380\	/ ; 50/60Hz							
Motor power	10W	23W	40W	40W	90W	90W	100W	100W						
Rated current	0.24A (AC220V)	0.32A (AC220V)	0.48A (AC220V)	0.48A (AC220V)	0.92A (AC220V)	0.92A (AC220V)	1.0A (AC220V)	1.2A (AC220)						
Output torque	50Nm	100Nm	20Nm	400Nm	500Nm	600Nm	1000Nm	2000Ni						
Service time	305	305	30S	30S	30S	30S	50S	1005						
Rotation angle	0~90°	0~90°	0~90°	0~90°	0~90°	0~90°	0~90°	0~90°						
Total weight	2.4Kg	4.2Kg	7.2Kg	7.2Kg	8Kg	8Kg	11.5Kg	12.1Kg						
Input signal		4~20mADC, 1~5VDC and 0~10VDC (the factory setting is available for other options)												
Output signal		4~20mADc (the factory setting is available for other options)												
Intrinsic error		Not more than ±1%												
Hysteresis				Less th	an 0.3%	2								
Dead zone			P	0.4%~1.5%	6 adjustable									
Damping characteristic				0	次									
Mechanism repeatability error				0	1%									
Insulation resistance	DC24	4V: 100MΩ/300	OVDC		1	.00MΩ/500VD	С	0						
Withstand voltage class	DC24	V: 500VAC/1m	inutes		15	00VAC/1minu	tes							
Protection class			H / /	IP	67			Ø						
Ambient temperature			-25°C~+60	0°C (customize	d for other ter	nperatures)								
Installing angle				360 any ang	le installation									
Shell material		H H	Alui	minum alloy p	recision die ca	sting								
Optional functions		Overto	orque protectio	on, heating de	humidifier and	passive conta	ct type							

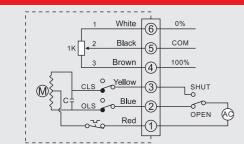
Less than 0.3%			
).4%~1.5% adjustak	le		9
0次			
0%			
	100MQ/500VDC		E B
	1500VAC/1minute	es	
IP67		8	25
customized for othe	er temperatures)		G
0 any angle installa	tion		
ım alloy precision d	ie casting		
eating dehumidifie	r and passive contac	t type	

Control circuit



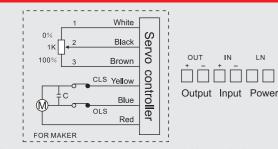
The valve's opening or closing operations are achieved through the switching circuit, with outputs of a set of active position signals indicating the valve's full opening or closing.

Opening Signal Type (Type C)



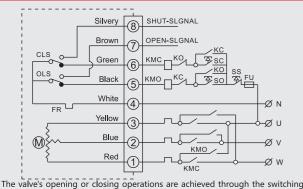
The valve's opening or closing operations are achieved through the switching circuit, with outputs of resistance signals corresponding to the opening positions.

Intelligent Regulation Type (Type C)



The valve's opening/closing angles are controlled by standard input signals from an external computer or industrial instrument, with synchronous feedbacks and outputs of corresponding standard signals.

Three-Phase Switch Type (Type G)

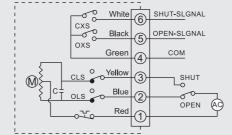


or circuit, with outputs of a set of active position signals indicating the switching opening or closing.

of control and overheating of the motor

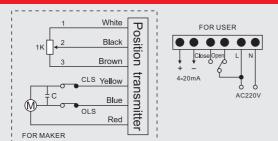
Note: The area within the broken line of the control circuit is the electric actuator's internal circuit and the area beyond the broken line is only for reference in wiring by users. Caution! Don't connect power lines of two or more electric actuators in parallel or control two or more electric actuators with the same contact, otherwise it will cause loss

Passive Contact Type (Type B)



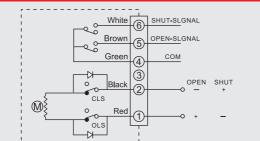
The valve's opening or closing operations are achieved through the switching circuit, with outputs of a set of passive position signals indicating the valve's full opening or closing.

With Position Transmitter (Type D)



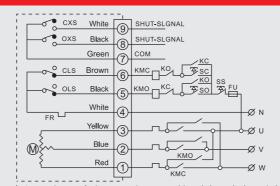
The valve's opening or closing operations are achieved through the switching circuit, with simultaneous outputs of current signals corresponding to the valve's opening/closing angles.

DC Switch Type (Type F)



The valve's "Open" and "Close" operations are achieved through positive/negative polarity switching of an external DC power supply, with simultaneous outputs of a set of passive contact signals indicating the valve's full opening or closing.

Three-Phase Passive Contact Type (Type H)



The valve's opening or closing operations are achieved through the switching circuit, with outputs of a set of passive position signals indicating the valve's full opening or closing.

/hite 6 SHUT-SLGNAL



Motor

Due to the valve's work characteristics, the actuator is required to have a fullload starting capacity at the valve' s opening, closing and any intermediate position, which requires that the actuator's motor should have a high starting torque. In addition, the motor must have a small moment of inertia as required by flow (opening) regulation. JYL series' electric actuator motor adopts a special design to meet those requirements.

When the actuator's running is blocked, the motor's temperature will rise rapidly. When the motor's temperature rises to 125°C, the PTc overheat protector embedded in the motor winding will cut off the data circuit to protect the motor and the control system. When the motor's temperature drops to $90~150^{\circ}$ C, the circuit will be connected again.



Switch Type Actuator

A-Type, B-Type, F-Type, G-Type and H-Type Control Circuit

The switch type has the fully-open and fully-closed limit positions only: after receiving appropriate commands, the actuator will drive the valve to the fully-open or fully-closed position. When using the S2 short-time working system, the continuous operation duration should not exceed 15 minutes.

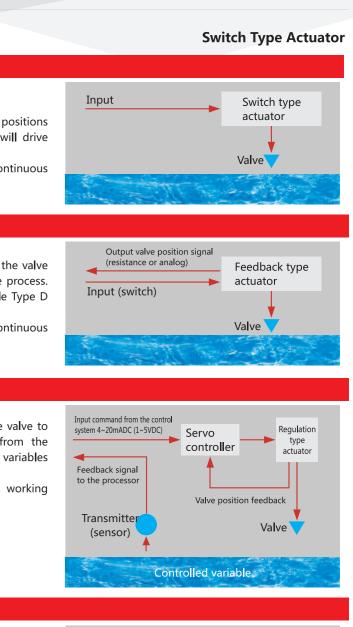
Feedback Type Actuator

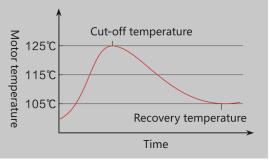
In the process of driving the valve, the actuator feeds back the valve position signals to the central control system for the whole process. Type C feeds back the resistance valve position signals while Type D the analog valve position signals.

When using the S2 short-time working system, the continuous operation duration should not exceed 15 minutes.

Intelligent Regulation Type Actuator

The intelligent module is inside the actuator, and drives the valve to appropriate opening positions on receiving commands from the central control system based on changes in the controlled variables (flow, pressure, temperature and liquid level) in the pipeline. It adopts the S4 intermittent working system, with the working frequency per hour up to 1,200 times.





A

10

Configuration and Functions

High-Performance Intelligent Module

Featured by its unique circuit design, fully imported industrial electronic components, intelligent signal acquisition control module centering on the industrial SCM, JYL integrates signal acquisition, processing, feedback and control. With an advanced hybrid integrated circuit, it boasts good stability and control precision as high as 1/1000.

It's compact and easy for installation and operation.

Manual Operation

Each JYL series actuator is delivered along with a handle which can be inserted directly into the manual operation port to drive the valve in case of power failure for on-site control or unloaded to be stored separately and fixed with a dustproof rubber plug screw when the handle is not used.

Electrical and Mechanical Limit Function

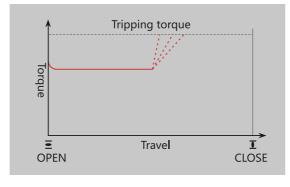
Electrical travel limit function: when the actuator reaches the fully-open or fully-closed limit position, a built-in electric limit switch will cut off the circuit to protect the actuator.

Output shaft mechanical limit function: When the electrical travel limit function fails, the actuator's output shaft will be locked by the mechanical limit device to protect the valve from being damaged.

The figure shows a position relationship between electrical and mechanical limits.

Overtorque Protection Function (Optional)

When the valve is clogged during operation (intermediate position) due to debris or foreign objects in the pipeline or any other reason, the actuator's output torque will increase rapidly until it reaches the set value (tripping torque) so that the torque switch will break the circuit to protect the valve and the actuator from being damaged.



Heating and Dehumidification Function (Optional)

The electrical chamber of JYL series actuator is optional for a PTC electronic heating element to be used in humid places with a large temperature difference between day and night to prevent the electrical elements from being damaged by condensation. The heater operates continuously, so it's always electrified even when the actuator is not running.

Actuator	Standard	Optional	Power supply	Soft seal butterfly valve	Hard seal butterfly valve	Ventilation butterfly valve	Ball valve
model	Time/torque	Time/torque	rower supply	≤1.0MPa	≤1.6MPa	≤0.1MPa	≤1.6MPa
11/1 05	205/501	10S/15N.m	AC24V		51140		
JYL-05	30S/50N.m	20S/30N.m	AC110V AC220V	DN25~DN65	DN40	DN50~DN80	DN15~DN32
JYL-10	30S/100N.m	15S/50N.m	AC380V DC12V DC24V	DN80~DN125	DN40~DN65	DN100~DN200	DN40~DN50
JYL-10	505/100N.M	20S/60N.m	DC220V	DIN80~DIN125	DIN40~DIN65	DIN100~DIN200	DIN40~DIN50
	95/80N.m			7			
JYL-20	505/200N.III	15S/100N.m		DN150~DN200	DN80~DN125	DN250~DN300	DN65~DN80
		60S/200N.m					
JYL-40	30S/400N.m		AC24V AC110V	DN200~DN250	DN125~DN150	DN350~DN400	DN80~DN100
		9S/150N.m	AC220V AC380V		See of		
JYL-50	30S/500N.m	15S/250N.m	DC24V DC220V	DN250~DN300	DN150~DN200	DN400~DN500	DN100~DN125
JTL-30	505/50014.111	20S/300N.m		DN230~DN300		DN400~DN300	DN100~DN125
		60S/500N.m	B				
JYL-60	30S/600N.m			DN300	DN200	DN500~DN600	DN125
IVI 100	50S/100N.m	15S/300N.m	AC24V	₿ 1 DN300~DN350	DN250	DN600~DN800	DN125~DN150
JYL-100	505/10014.111	30S/800N.m	AC110V AC220V	DIV300~DIV330	011230	D11000~D11800	DIV123~DIV130
JYL-200	100S/2000N.m		AC380V	DN400~DN500	DN300~DN400	DN800~DN1000	DN200~DN250

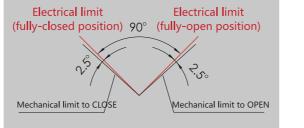
Note: The actuator-valve matching data in the table are for reference only, and the actual data are subject to the manufacturer's torque values.

Due to a great variety of valves, even the same specification and model of valves have different torque values due to differences in manufacturers' manufacturing processes, quality level, structural types and valve body materials. Also in actual use, the valve opening and closing torques always vary greatly due to the system's pressure fluctuations, medium types, site environment, operating characteristics and other factors. To ensure the actuator's stable and reliable operation, it's recommended to reserve an adequate safety factor in type selection, namely: Safety factor = Actuator Output Torque or Valve Pressure Test Torque \geq 1.2-1.3 times.









Electric Valve Selection and Configuration Table



12



LEADING OUT OF PROFESSIONALISM



Electric 3PC welding ball valve



Electric 3-way thread ball valve



Electric 3PC thread ball valve



Electric flange ball valve



Electric plastic flange ball valve



Electric flange ball valve



Electric plastic double by order ball valve









Electric valve controller





Electric middle butterfly valve Electric plastic butterfly valve





Electric three eccentric hard sealing butterfly valve

Electric middle butterfly valve





Electric middle butterfly valve Electric middle butterfly valve





Electric middle butterfly valve

Electric three eccentric hard sealing butterfly valve