





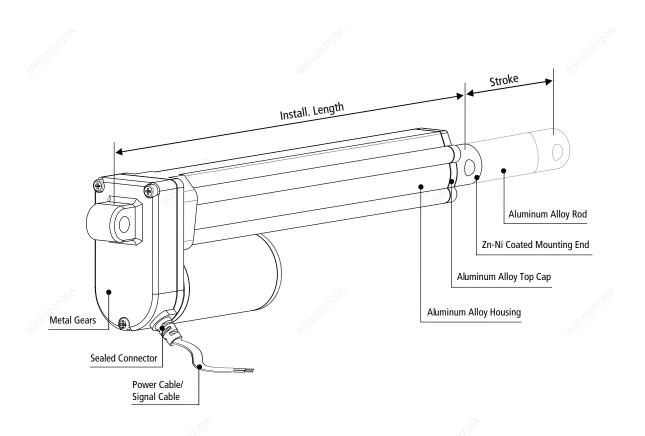
Dear Customers,

What a big world! But thanks to crazy technology, it's been getting smaller than ever, so that we can meet here from all corners of the world. It's our pleasure to have opportunities to provide you with a variety of products and services to help with the implementation of your amazing designs.

We present our products thoroughly in front of you by using refined parameters and words, so that you can find the most suitable solution.

Next, we will take you to a deeper understanding of Hongba's products. Please read this datasheet carefully. You are also welcome to leave valuable comments and suggestions to help Hongba improve itself continuously.

Definition of Terms



Stroke	How far the rod extends outwards from the body. The difference between fully extended length and fully retracted length. [Customizable]			
Install. Length	The fully closed size. [Customizable]			
Front Mount. End	Optional.			
Rear Mount. End	Optional.			
Mount. Holes	Can be rotated by 90°.			
Dynamic Force	The max force that actuator is able to carry when it is moving.			
Selflocking	The max force that linear actuator is able to hold when it stops.			
Weather Protection	IP XX. The first digit: dust protection. The second digit: liquid protection. Please refer to [Table 1].			
Duty Cycle	Continous working time 'a', rest time 'b'. Duty cycle is a/(a+b)x100%. Please refer to [Table 1].			
Speed	Include free-load speed and full-load speed.			
Hall Sensor	Provide pulse signals. Displacement measurement is achieved through pulse counting, and the phase difference of the waveform can be used to identify the rotation direction of motor. Check [Table 1] to see if it is available.			
Potentiometer	Potentiometer is a three-terminal variable resistor with a rotating contact which is used to measure the displacement of actuators. Check [Table 1] to see if it is available.			
Manual Override	Can be used to extend or retract the actuator without power for emergency. Check [Table 1] to see if it is available.			

Configs.

Color	Sliver	■Black	☐ Customized			-
Lead Screw	Acme Screw	☐ Ball Screw				1
Operation Mode	Electrical	☐ Electrical + Manua	al			*100.
Application	Industrial	□ Furniture	\square Medical			
Operational Temp.	□5 to 40°C	■-10 to 65°C	■-40 to 65°C			
Operating Noise	□≤45 dB	□≤50 dB	■ ≤65 dB		 	
Stroke Range	■ 50-600mm	■ 600-1,000mm				
Dynamic Load	■ ≤1,200N	□ ≤2,000N	□≤4,000N	□ ≤7,000N	□ ≤12,000N	□ ≤20,000N
Duty Cycle	□10%	□20%	25 %*	□ 50%	□ 100%	
Motor Type	■ Brushed DC	☐ Stepper Motor	□Brushless	☐ Servo Motor		
Overload Protection	None	□Clutch	□Electronic	☐ Thermistor		
Weather Protection	□IP20	□ IP43	□IP54	□ IP65	■ IP66	
Position Feedback	None	Endstop Signal	☐ Hall Sensor	Potentiometer	☐ Encoder	Reed Switches
Input Voltage	■12VDC	■24VDC	■36VDC	■ 48VDC	☐ 110VAC	☐ 220VAC

^{*} Don't exceed four minutes continuous working with full load at 20 $^{\circ}\mathrm{C}$.

[Table 1]

Parameters

Fill in code:

Options for DJ806 Other Models

Code	Max. Dynamic Load (N)	Max. Self-locking (N)	Reduction Ratio -	Pitch (mm)	Speed: (mn		(mm)	Max. Stroke with Pot.
A of other	200	300	5:1	3.17	40	22	1,000	200
В	100	150	5:1	5	60	45	1,000	300
С	50	100	5:1	7.5	80	65	1,000	450
D	600	900	20:1	3.17	10.5	7.0	1,000	200
E	500	800	20:1	5	16.5	12	1,000	300
F	250	400	20:1	7.5	25	20	1,000	450
G	1,000	1,500	30:1	3.17	7.2	5.0	1,000	200
Н	700	1,000	30:1	5	11.5	8.5	1,000	300
I	400	600	30:1	7.5	17	13.5	1,000	450
J	1,200	1,700	40:1	3.17	5.5	4.0	1,000	200
K	800	1,200	40:1	5	8.5	6.5	1,000	300
L	450	700	40:1	7.5	13	10	1,000	450

[Table 2]

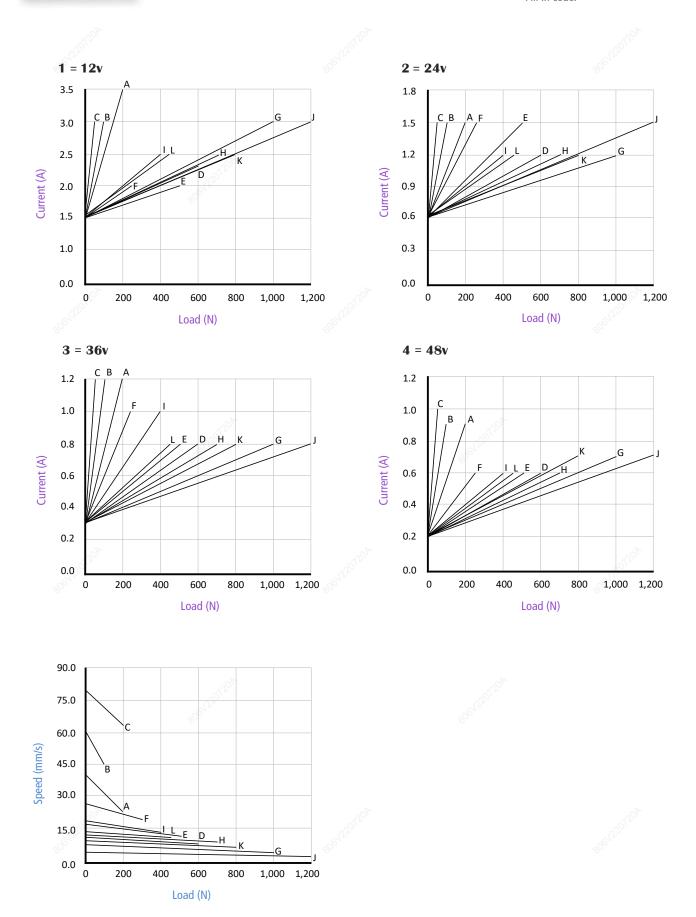
① Measurements are made with actuators in connection with stable power supplies and ambient temperature at 20°C.

² For example, when real load is 800N, choosing code (K) is fine. Of course, you can also choose (G) or (J) which come with more load buffer, higher safety factor and longer product service time.

③ There are many factors affecting the "customizable maximum stroke", such as load, speed, force direction, etc., so the real application scenarios should be considered. If the parameters you required are not listed, please contact our sales engineers.

Charts

Fill in code:

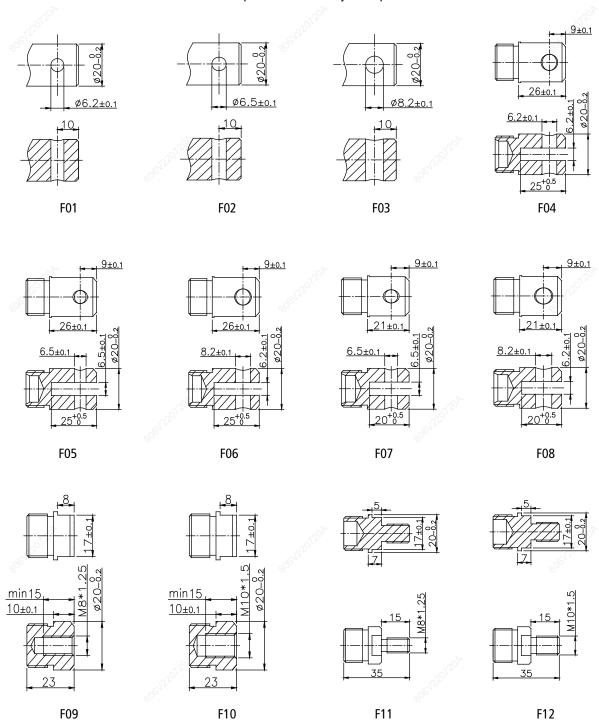


^{*} Measurements are made with actuators in connection with stable power supplies and ambient temperature at 20°C.

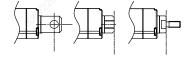
Front Mounting End

1. Please contact our sales team if none of the options below meet your requirements.

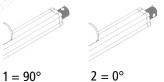




2. Start of Installation Length



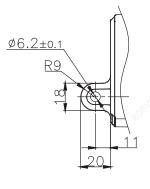
3. Hole Directions



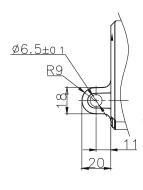
Fill in code:

1. Please contact our sales team if none of the options below meet your requirements.

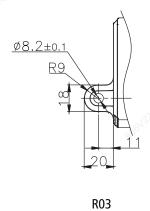
Fill in code:

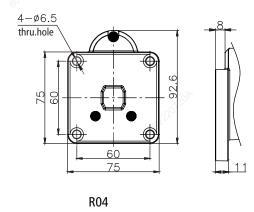


R01



R02





2. End of Installation Length





3. Hole Directions

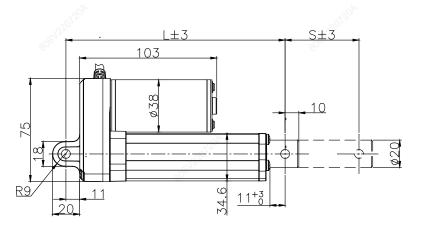


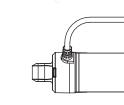
1 = 90°



Fill in code:

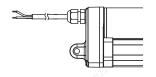
mm



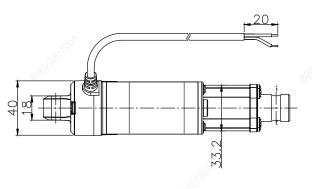


Fill in code:

A: sideway cable outlet



B: bottom cable outlet (not applied to R04)



A. Mounting Ends VS Install. Length

	Rear Mount. Ends
Front Mount. Ends	R01, R02, R03, R04
F01, F02, F03, F07, F08, F09, F10, F11, F12	A≥ S+105 mm
F04, F05, F06	A≥ S+110 mm

[Table 3]

B. Stroke VS Install. Length

Stroke (S) (mm)	Install. Length (L) (mm)
50 - 299	+ 0
300 - 499	+ 15
≥ 500	+ 25

[Table 4]

How to calculate 'Install. Length'?

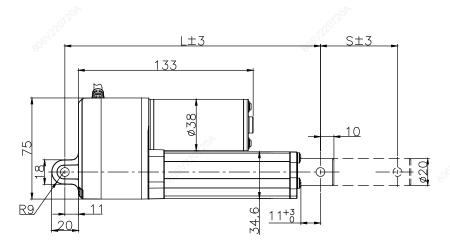
 $S = Stroke, L = Install Length, L \ge A + B$

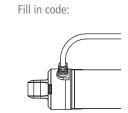
Example

•					
Front Mount.	Rear Mount.	S (mm)	A (mm)	B (mm)	L≥A+B (mm)
F04	R01	300	300+110	+15	≥425

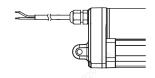
[Table 5]

[Integrated Potentiometer]

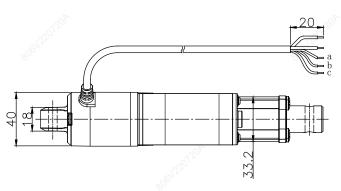




A: sideway cable outlet



B: bottom cable outlet (not applied to R04)



A. Mounting Ends VS Install. Length

	Rear Mount. Ends
Front Mount. Ends	R01, R02, R03, R04
F01, F02, F03, F07, F08, F09, F10, F11, F12	A≥S+135 mm
F04, F05, F06	A≥S+140 mm

[Table 6]

B. Stroke VS Install. Length

Stroke (S) (mm)	Install. Length (L) (mm)
50 - 299	+ 0
300 - 450	+ 15

[Table 7]

How to calculate 'Install. Length'?

 $S = Stroke, L = Install Length, L \ge A + B$

Example

Front	Rear	S	A	B	L≥A+B
Mount.	Mount.	(mm)	(mm)	(mm)	(mm)
F04	R01	300	300+140	+15	

[Table 8]

0 = No Signal Feedback

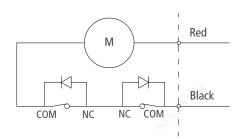
1 = Endstop Signal

2 = Potentiometer

3 = Reed Switches

0. Limit Switches without signal feedback

Standard DJ806 comes with limit switches that shut off the motor automatically at the end of its travel.

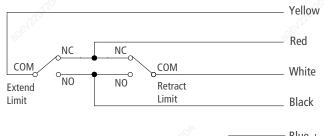


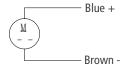
	Wiring				
	Black Red				
Extend	op -	+			
Retract + -					

[Table 9]

1. Endstop Signal

Optional endstop signals output, and the limit switches do not cut off the power at neither end of the travel.



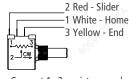


		32,			
l	Power Wire Coding				
	Brown	Blue			
Extend	-	+			
Retract	+	-			
Signal Wire Coding					
Black	Extend / Retract limit, N.O.				
Red	Extend / Retract limit, N.C.				
Yellow	Extend limit. COM.				
White	Retract limit. COM.				

[Table 10]

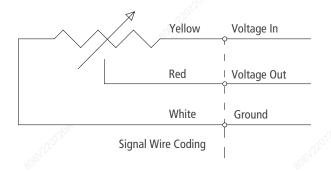
2. Potentiometer

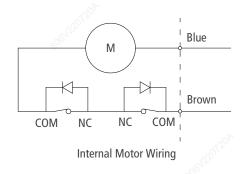
Code	Max. Stroke	Resistance Value per mm
A, D, G, J	200 mm	0.047 K Ω
B, E, H, K	300 mm	0.030 K Ω
C, F, I, L	450 mm	0.020 K Ω



Connect 1+2, resistance value increase, actuator extend.

[Table 11]





3. Reed switch

Standard N.O. contact. Optional N.C. contact.

^{*} Start value 0.2~0.4K Ω

RESET

Inquiry Table

			KESET			
20g/1701	Voltage	1 = 12VDC 2 = 24VDC 3 = 36VDC 4 = 48VDC	**************************************			
	Load & Speed	See [Table 2]				
	Stroke (mm)	Please contact us if the stroke you required is out of range.				
	Install. Length (mm)	See Table [3] to [8]				
	Front Mount. End	F01 - F12 FX = Custom				
	Rear Mount. End	R01 - R04	00120A			
	Mount. Hole Direction	Front $1 = 90^{\circ}$ $2 = 0^{\circ}$ Rear $1 = 90^{\circ}$ $2 = 0^{\circ}$	*00311			
	Signal Feedback	0 = None 1 = Endstop Signal 2 = Potentiometer 3 = Reed Switches				
	Cable Length	1 = 800 mm 2 = 1500 mm 3 = 2000 mm X = Custom				
	Connector	A = Sideway Cable Outlet B = Bottom Cable Outlet (not applied to R04) 0 = Tinned Bared Wires 1 = Match with KZ-series Controller X = Custom				
	Working Temperture	1 = -10 °C to 65 °C	N25125F			
Application	Working Frequency	Estimated cycles work per day				
	End Use	Indoor or outdoor, and please describe your end use.				
	Liid Oze					
	Your contact	Company Name				
		Tel. Email				

Terms of Use

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Wuxi Hongba Mechanical Electrical Equipment. Co., Ltd.

Cell: Email:

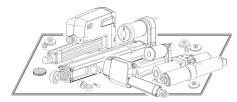
Tel.: 0510-85436730 Website: hbactuator.com

Address: 5 Lijiang Rd. Xinwu District, Wuxi 214028 China

You may also be interested in...

Model	Load (N)	Stroke (mm)	Speed (mm/s)	Install.Length (mm)	Overall Size (mm)	IP rate	Application
DJ803 (Track)	1,500	50-600	16-32	155	155 x 77.4 x L	IP20	Furniture
DJ823	3,000	50-600	5.0-15	S+155	148.5 x 80 x L	IP54	Furniture Medical Care
DJ810	4,000	50-600	5.0-32	S+150	156 x 83 x L	IP43	Furniture Medical Care
DJ801	6,000	50-600	4.7-28	S+175	156 x 83 x L	IP43	Furniture Medical Care
DJ822	6,000	50-600	5.0-16	S+175	166 x 91 x L	IP54	Furniture Medical Care
* DJ806	1,200	50-600	5.5-80	S+105	40 x 75 x L	IP66	Industrial
DJ809	2,000	50-600	5.0-55	S+108	45 x 77.5 x L	IP66	Industrial
DJ825	2,000	50-600	6-15	S+115	43 x 84.5 x L	IP66	Furniture Medical Care Industrial
DJ820	2,500	50-600	2.5-22	S+120	64.5 x 102 x L	IP66	Furniture Medical Care Industrial
DJ820P	1,000	50-600	25-50	S+140	64.5 x 102 x L	IP66	Industrial
DJ830	4,000	50-600	5.5-35	S+200	76 x 151 x L	IP65	Industrial
DJ830P	7,000	50-600	5.5-35	S+200	76 x 151 x L	IP65	Industrial
DJ808	7,000	50-600	5.5-35	S+250	77 x 151 x L	IP65	Industrial
DJ805G	12,000	50-1,000	6.5-37	S+200	102 x 154 x L	IP66	Industrial

^{*} You are now reading...



For more information, please visit our website hbactuator.com