JC35B8 Linear Actuator

Application field - Medical Line & Care Line & Technical Line
preferably in home care nursing, hospital beds

Strong and low-noise linear actuator designed for medical & care & technical line.
JC35B8 is rated up to IPX6 washable. It enables JIECANG to offer a quiet yet durable actuator to many applications. JC35B8 offers option for safety nut and signal feedback.



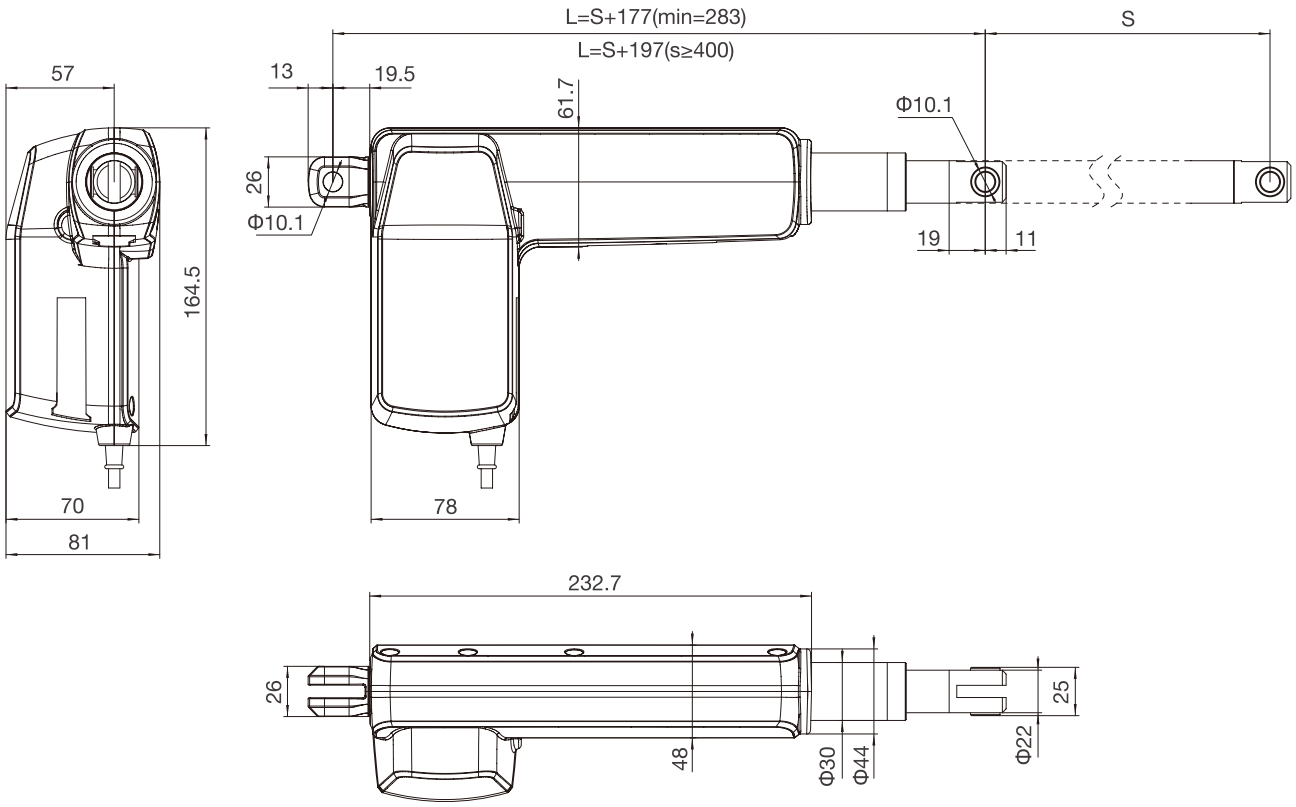
Features And Options

Dynamic Load Push(N):	6000 | 4000 | 3000 | 2000 | 1000
Dynamic Load Pull(N):	4000 | 3000 | 2000 | 1000
Colour:	Gray / Black
Protection Class:	Max. IPX6W
Stroke Length:	6000N: 50-250mm (in steps of 4mm) 4000N: 50-400mm (in steps of 4mm) 3000N: 50-400mm (in steps of 4mm) 2000N: 50-400mm (in steps of 4mm) 1000N: 50-400mm (in steps of 4mm)
Installation Dimension:	L=S+177(Lmin=283) L=S+197(S≥400)
Noise Level:	≤50dB (environmental noise≤40dB)
Optional:	Safety Nut, Hall Sensor, Only Push, Reed Switch
Limit Switch:	Built-in (electronic)
Weight:	About 2.3kg (different stroke length and installation dimensions with different weight)
Static Bending Moment:	Lateral load is not allowed
Approval:	ANSI/AAMI ES60601-1: A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012 EN60601-1

Usage

Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off
Operating Temperature:	+5 to +40°C
Reserve Temperature:	-10°C to +50°C
Supporting Control Box:	Matching with JIECANG control box
Relative Humidity:	20% to 90% at 30°C, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimensions

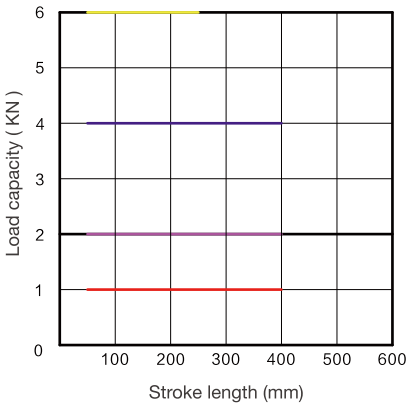


Technical Specifications (Standard Value)

Input voltage (VDC)	Spindle pitch (mm)	Max. load in push (N)	Max. load in pull (N)	Mechanical self-locking (N)	Speed at no load/full load（mm/s）	Current at full load (A)
24	7.5	1000	1000	750	22.5/12	4.1
	5	2000	2000	1500	15/9.8	4.8
	7.5	3000	3000	2000	10.8/6.8	4.8
	6	3000	3000	2000	7.9/5.8	3.5
	5	4000	4000	3000	7/4.4	4.8
	5	4000	4000	3000	9.2/5.3	6.6
	4	6000	4000	5000	3.5/2	3.5
	4	6000	4000	5000	5.6/3.3	4.8
	4	6000	4000	5000	7.3/4.4	6.6
	4	6000	4000	4000	6.7/4	5.5
29	7.5	1000	1000	750	27/14.5	4.6
	5	2000	2000	1500	18/11.8	5.3
	7.5	3000	3000	2000	13/8.2	5.3
	6	3000	3000	2000	9.5/7	4
	5	4000	4000	3000	8.5/5.3	5.3
	5	4000	4000	3000	11/6.4	7.1
	4	6000	4000	5000	4.2/2.4	4
	4	6000	4000	5000	6.8/4	5.3
	4	6000	4000	5000	8.7/5.3	7.1
	4	6000	4000	4000	8/4.8	6
12	10	1500	1500	1500	13/7.1	5.5

Remarks: It can achieve better self-locking ability with Jiecang control box;
The above data is the standard value of the test data (inspection specification) at room temperature of 25°C.

Diagram of relationship between stroke length and load

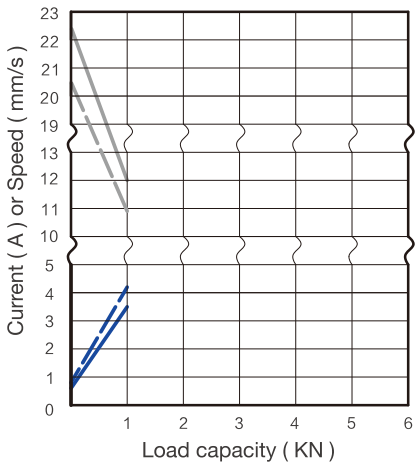


Characteristic Curve

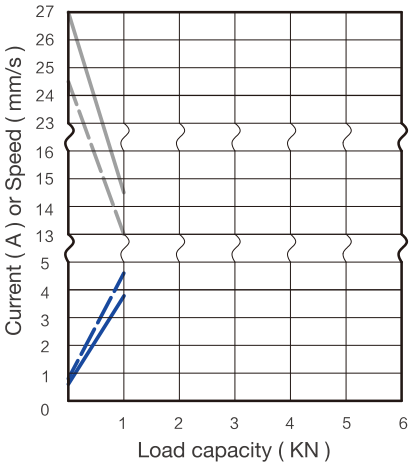
Typical speed
Min. speed
Typical current
Max. current

1000N

24V

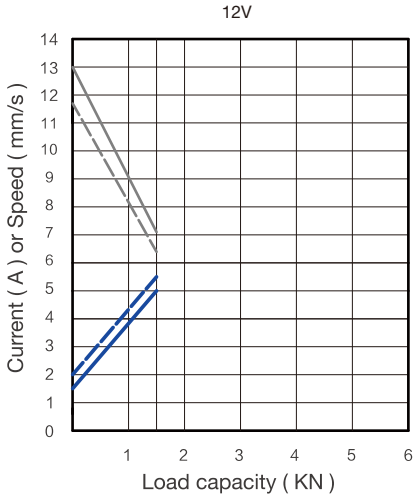


29V



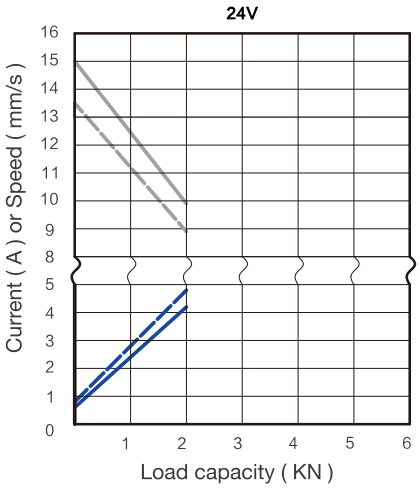
1500N

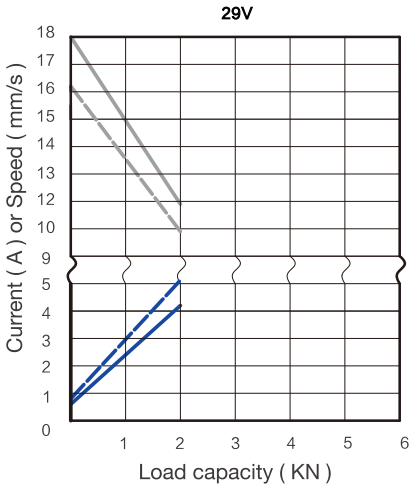
12V



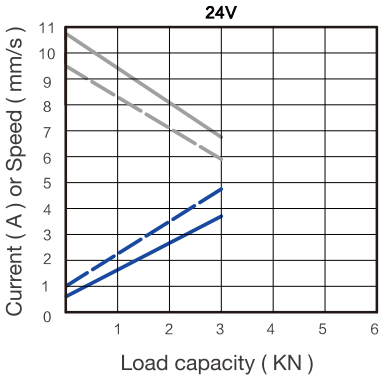
Typical speed
Min. speed
Typical current
Max. current

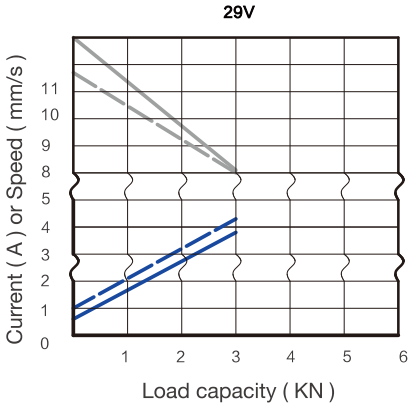
2000N

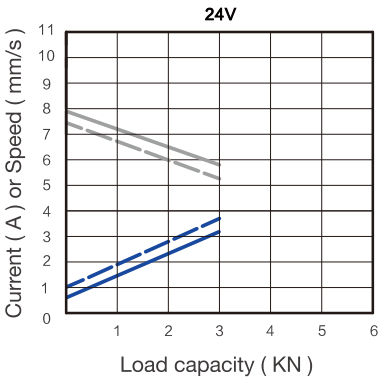


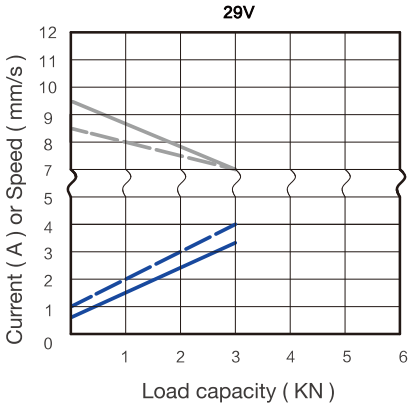


3000N



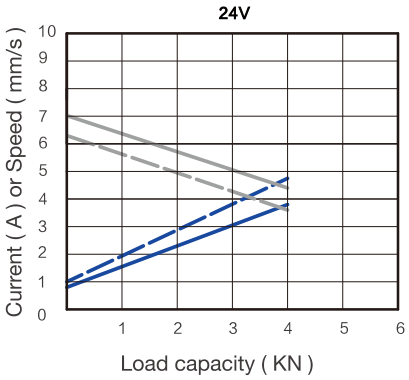


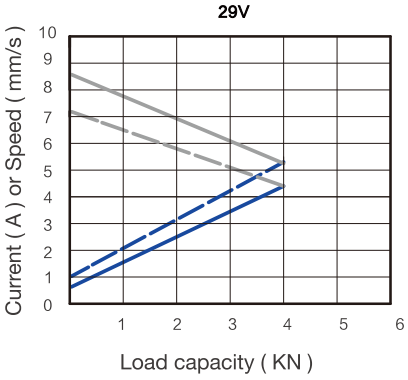


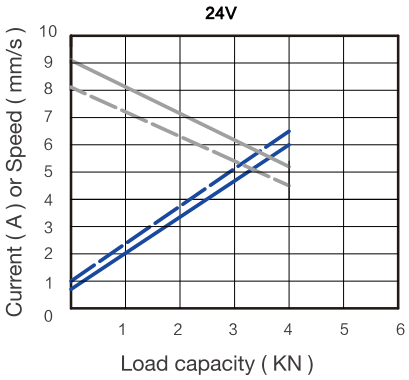


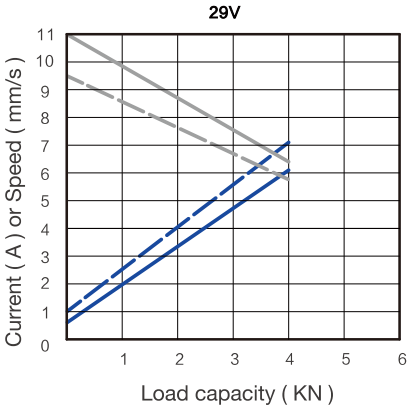
Typical speed
Min. speed
Typical current
Max. current

4000N



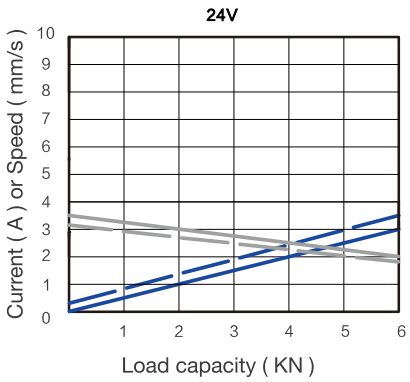


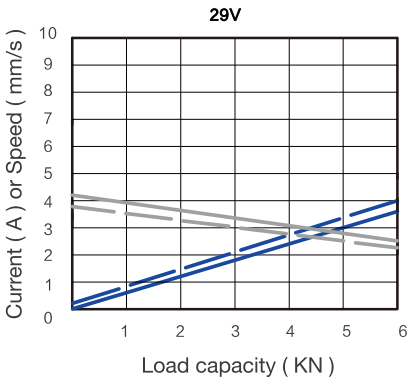


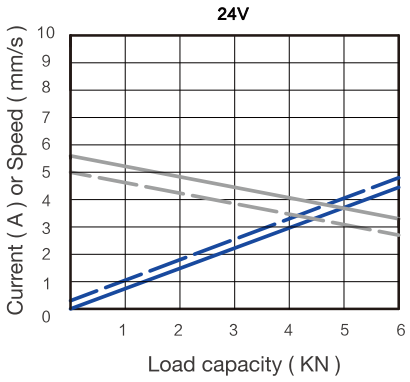


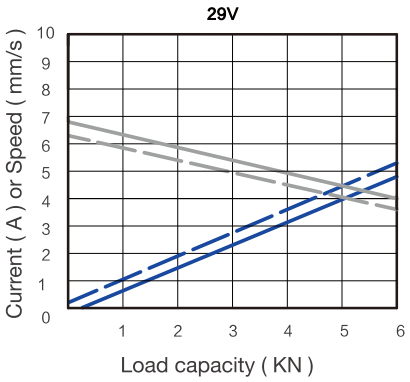
Typical speed
Min. speed
Typical current
Max. current

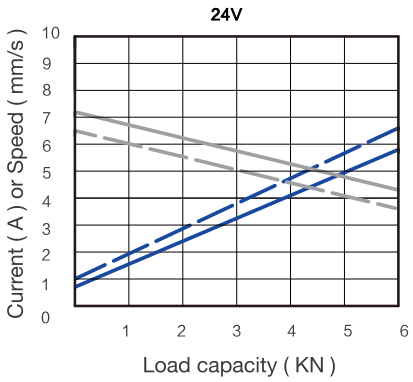
6000N

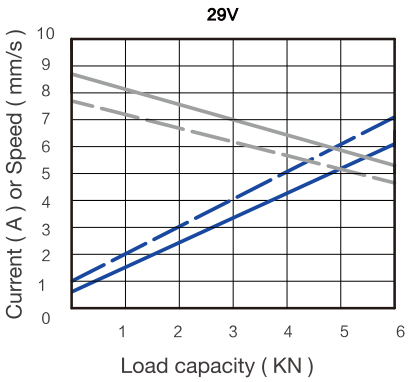












Ordering Key

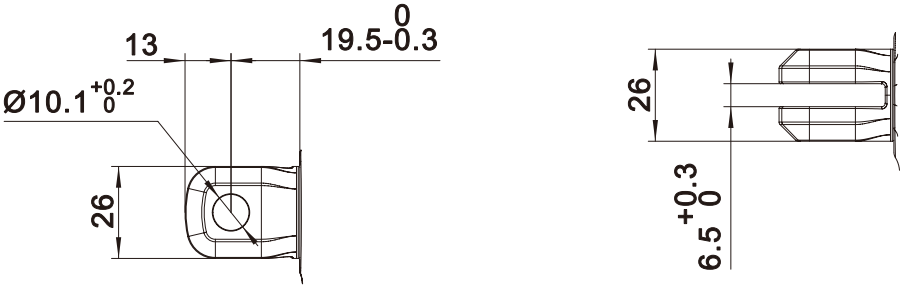
Take **JC35B806324150/327VGDZ052022D0** as an example

Model	**JC35B8**	
Optional features	**X**	O=Standard / P=Only push / S = safety nut Y=Hall sensor / R=Reed switch
Load in push	**X**	6=6000N / 4=4000N 3=3000N / 2=2000N 1=1000N
Speed at full load	**X**	4=4mm/s 5D3=5.3mm/s 6D8=6.8mm/s 9D8=9.8mm/s 12=12mm/s
Input voltage	**XX**	24 = 24 VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = XXX Installation dimension = XXX
Clevis directions	**X**	H=horizontal V=vertical (to motor direction)
Colour	**X**	G = Gray / B= Black
End clevis specification	**X**	D = slot 6.5, hole Φ 10.1
End clevis material	**X**	Z = Zinc-Aluminum alloy T = Steel
Front clevis specification	**XX**	F05:slot 6.5, depth 26, hole ϕ12.5 with ϕ24 aluminum tube, hole ϕ10.1 with bushing
Brake specification	**X**	0 = without brake I 1 =brake in pull | 2= brake in push
Type of connector and cable	**XX**	02= 4 Pin Din connector 10= 5 Pin Din connector
Cable length	**XXX**	2D0 = 2m / 0D5 = 0.5m

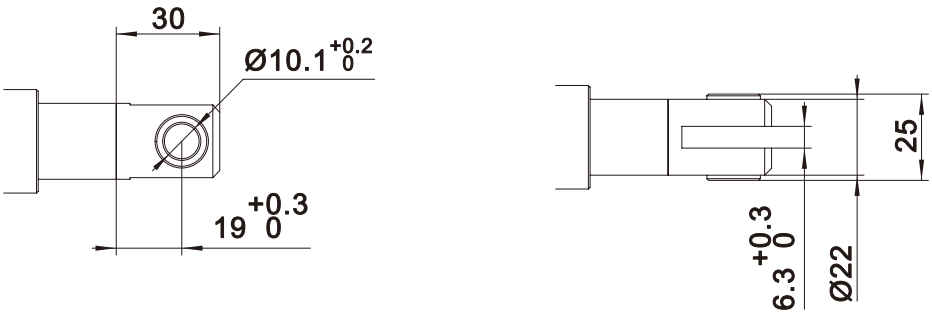
Ordering Details

Dimensions of clevis

End clevis: D



Front clevis: F05



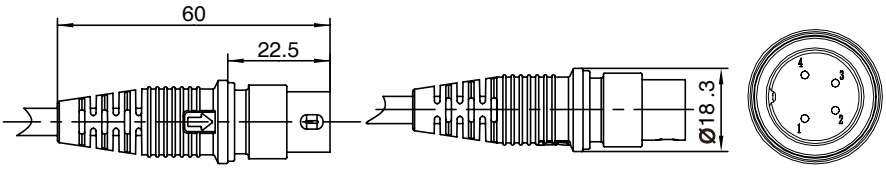
Motor cable

4 Pin Din connector (standard)

Supporting control boxes:
JCB35Q / JCB35T / JCB35R / JCB35R1 / JCB35S

Pin	Color	Functions
1	NC	Not connected
2	Brown	power with positive voltage, actuator going down
3	Blue	power with positive voltage, actuator going up
4	NC	Not connected
Outer Circle	NC	Not connected



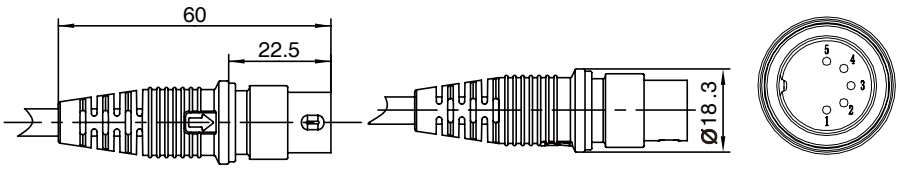


5 Pin Din connector (with Hall sensors)

Supporting control boxes:
JCB35Q / JCB35T / JCB353R / JCB35R1 / JCB35S



Pin	Color	Functions
1	Red	5V
2	Brown	power with positive voltage, actuator going down
3	Black	GND
4	Blue	power with positive voltage, actuator going up
5	Yellow	Hall sensor signal 1
Outer Circle	Orange	Hall sensor signal 2



Strictly abiding by medical safety certifications

Passed EMC tests. To ensure our products pass all kinds of tests domestic or abroad.

Communication protocol development

Aiming at different applications, develop more extensive functions for control system.

Professional customization

Powerful R&D strength, fully satisfy customers' needs. Development cycle is about 10 days, seizing more market opportunities

Intelligent Control of Bluetooth

Mobile phone as the remote, applying in home care. Market pioneer, Jiecang provides better choices

Wireless Communication

Controllers adopt high-frequency wireless system. It can avoid interference mixing with signal receivers, assisting in remote control over medical equipment.

Latest Weighing System

Designed for physiotherapy beds and medical care beds. Cantilever carrying weighing sensor, it is applicable to different bedsteads dispensing with any adjustment

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