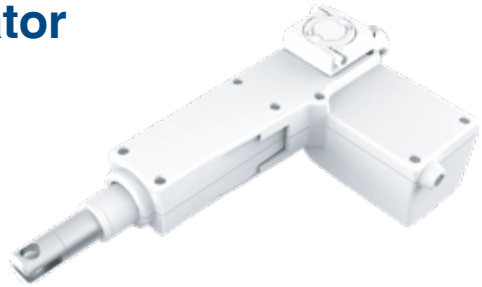
JC35B5-QH Linear Actuator



Application field - Medical Line
Preferably in medical bed, operating bed, massage chairs and other fields.

JC35B5-QH is a kind of quick release actuator with low noise and excellent self-locking force. It has following specifications: JC35B5-QH-3000N（push）; JC35B5-QH-2000N（push）.JC35B5-QH is characterized by large load capacity, excellent self-locking force, high IP grade(IPX4)and low noise.
It is widely used in medical bed, operating bed, massage chairs and other fields.

Features And Options

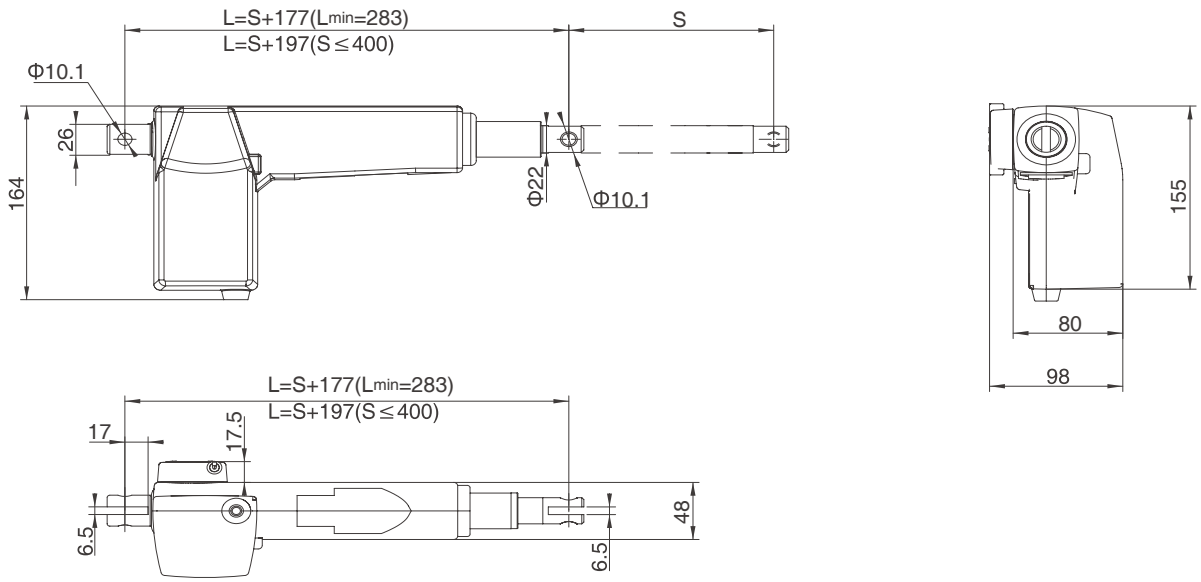
Load in push (N):	3000 | 2000
Colour:	Grey / Black
IP grade:	IPX4
Stroke length:	3000N: 50-400mm (in steps of 4mm) 2000N: 50-400mm (in steps of 4mm)
Installation dimensions (mm):	L=S+177(50<S≤400) L_{min}=283
Noise level:	≤45dB, (environmental noise≤40dB)
Options:	Safety nut, Hall sensor, Reed switch Small signal function (match with JIECANG control box)
Limit Switch:	Built-in (electrical)
Weight:	About 2.3kg (different stroke length and installation dimensions with different weight)
Static bending moment:	lateral load are not allowed
Approval:	ANSI/AAMI ES60601-1: A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012 EN60601-1：2006+A1：2013+A11：2011+A12：2014+A2：2021

Usage

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

Dimension Drawing

Top clevis F05, end clevis D

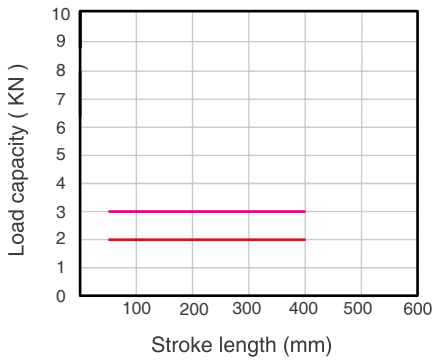


Technical Data-Standard value

Voltage (VDC)	Spindle pitch (mm)	Max. load in push (N)	Max. load in pull (N)	Mechanical self-lock (N)	Speed at no load/full load (mm/s)	Current at full load (A)
24	5	3000	3000	2000	6.7/5.5	≤3.3
24	5	2000	2000	2000	6.7/5.5	≤3
24	6	3000	2000	2000	8.3/6	≤4
29	5	3000	3000	2000	8.5/6	≤3.3
29	5	2000	2000	2000	8/6.6	≤3
29	6	3000	2000	2000	10/7.2	≤4

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 .

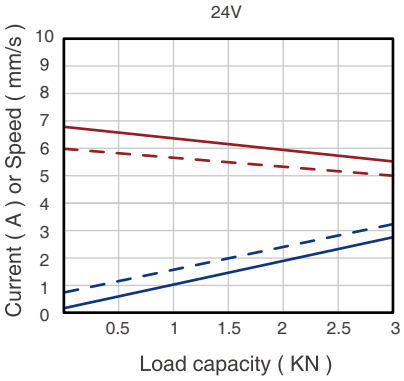
Diagram of relationship between stroke length and load

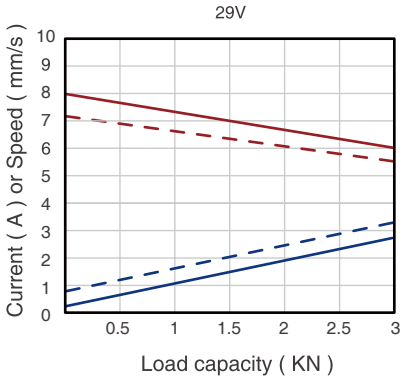


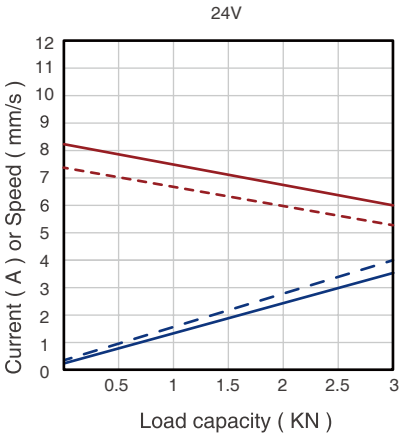
Characteristic Curve

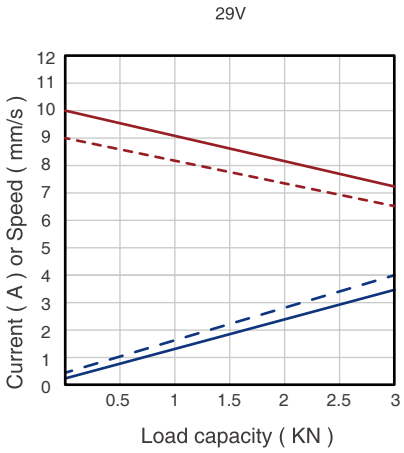
Typical speed
Min. speed
Typical current
Max. current

3000N

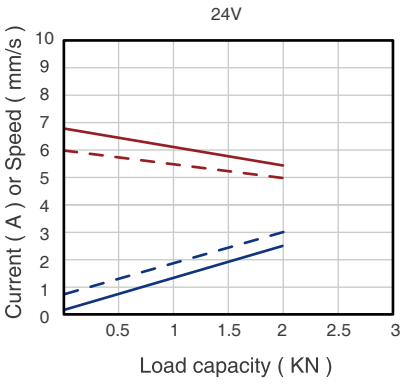


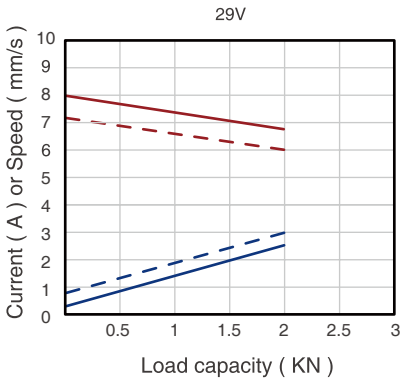






2000N





Ordering Example

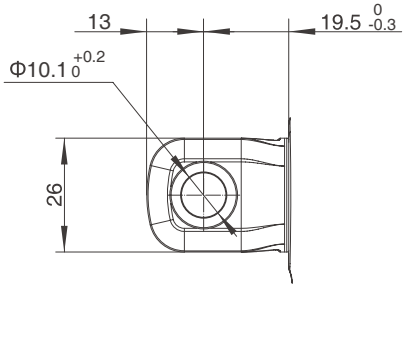
Take **JC35B5QH03524100/277VGDTF050021D5** for example

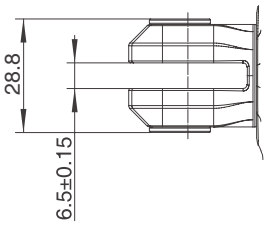
Model	**JC35B5QH**	
Optional features	**X**	0 = Standard / S = Safety nut / Y = Hall sensor / R = Reed switch
Load in push	**X**	3 = 3000N / 2 = 2000N
Speed at full load	**X**	5D5 = 5.5mm/s 5 = 5mm/s
Input voltage	**XX**	24 = 24VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = XXX Retracted length = XXX
Clevis directions	**X**	H = H direction / V = V direction
Color	**X**	G = Grey / B=Black
End clevis specification	**X**	D = slot 6.5, the hole diameter isΦ10.1,
End clevis material	**X**	T = Split steel end clevis
Top clevis specification	**XX**	F05: Slot width 6.5, slot depth 26, hole diameter 12.5 withΦ24 aluminum tube with pull head gasket hole diameter 10.1; steel top clevis
Brake specification	**X**	0 = Standard
Type of plug and cable	**XX**	02 = 4 pin DIN plug and 2 pin straight cable 10 = 5 pin DIN plug and 6 pin straight cable
Cable length	**XXX**	0D5 = 0.5m / 2 = 2m

Ordering Details

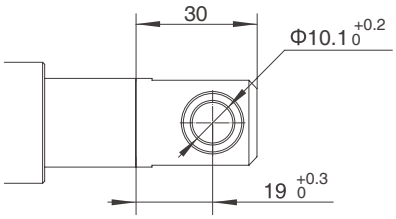
Dimension drawing of clevis

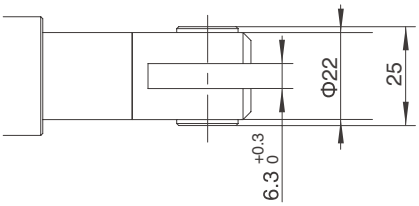
End clevis: D





Top clevis: F05





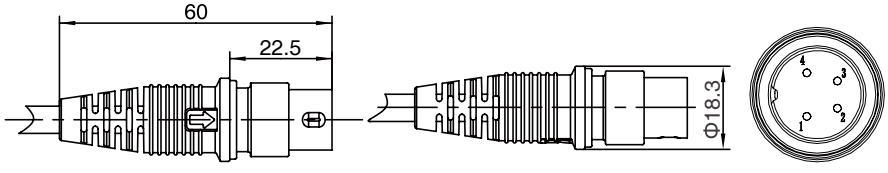
Motor wire

4-pin straight plug (standard)

Matching controller: JCB35Q/ JCB35T/ JCB35R/ JCB35R1/ JCB35S

Pin	Color	Function
1	NC	Not connected
2	Brown	When positive voltage power on,actuator will go down
3	Blue	When positive voltage power on,actuator will go up
4	NC	Not connected
Outer ring	NC	Not connected



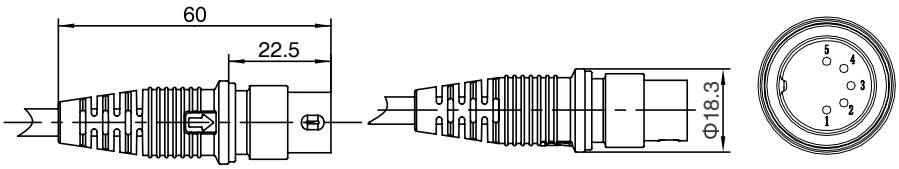


5 pin DIN plug (with Hall sensor)

Matching controller: JCB35Q/ JCB35T/ JCB35R/ JCB35R1/ JCB35S



Pin	Color	Function
1	Red	5V
2	Brown	When positive voltage power on,actuator will go down
3	Black	GND
4	Blue	When positive voltage power on,actuator will go up
5	Yellow	Hall signal 1
Outer ring	Orange	Hall signal 2



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Wireless Communication

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Notes for mounting and usage can be found in the corresponding mounting manual

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