JC35L9 Linear Actuator

Application field - Medical Line
preferably in hospital bed, operating table,
nursing bed and other applications.



JC35L9 is a compact, elegant and quite actuator of new series. It absorbs the advantages of many other medical system. It is designed for both push and pull applications, and is rated up to max. IPX6.
JC35L9 is now widely applied to medical line.

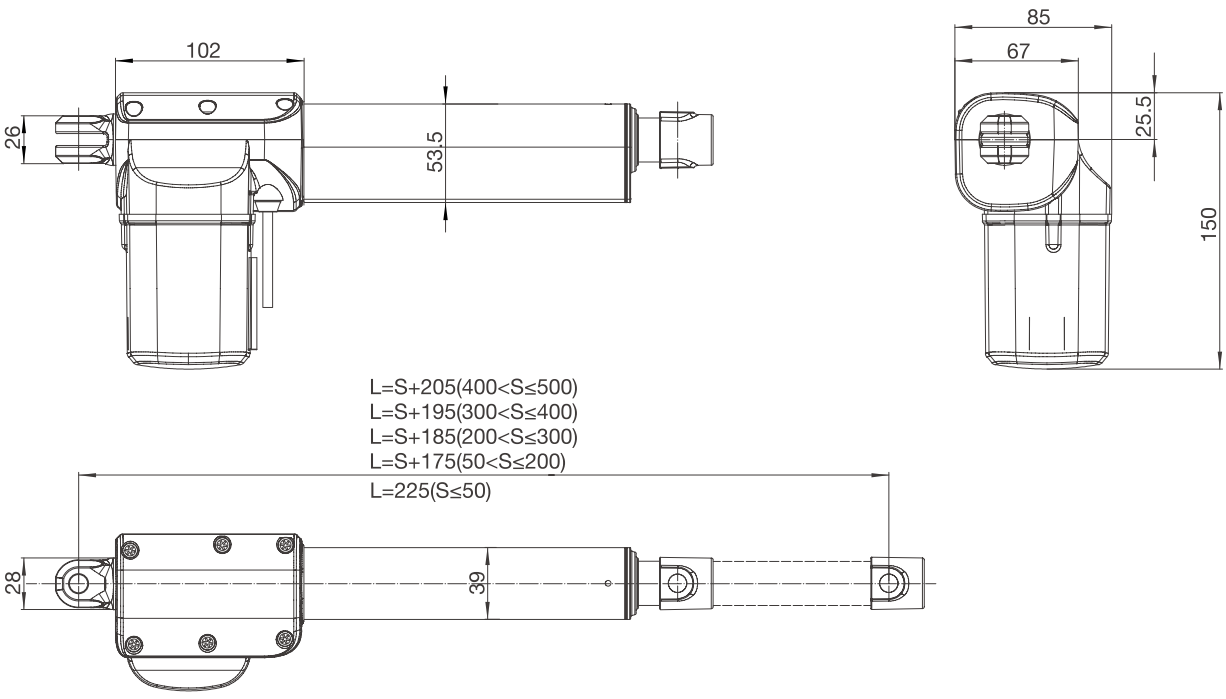
Features And Options

Dynamic Load Push(N):	6000 | 4000
Colour:	Gray / Black
Protection Class:	Max. IPX6
Stroke Length:	6000N: 50-25mm (in steps of 4mm) 4000N: 50-500mm (in steps of 4mm)
Installation Dimension:	L=225 (S≤50) L=S+195 (300<S≤400) L=S+175 (50<S≤200) L=S+205 (400<S≤500) L=S+185 (200<S≤300)
Noise Level:	≤48dB (environmental noise≤40dB)
Optional:	Safe nut, Hall sensor, Only push
Limit Switch:	Built-in (electronic)
Weight:	About 2kg (different stroke length and installation dimensions with different weight)
Static Bending Moment:	Lateral load is not allowed
Approval:	IEC60601-1: 2012 EN 60601-1: 2006+A12:2014 ANSI/AAMI ES60601-1: 2005/(R)2012 and A1: 2012 C1:2009/(R)2012 and A2: 2010/(R)2012

Usage

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

Dimensions

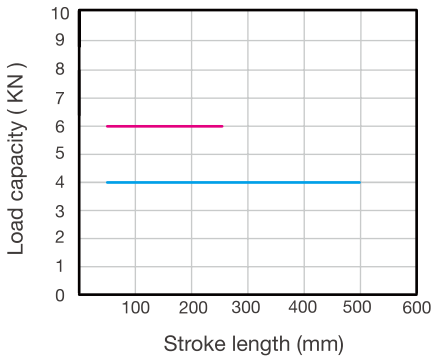


Technical Specifications (Standard Value)

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	4	6000	4000	6000	6.1/3.6	≤6
	5	4000	/	4000	7.5/5.3	≤5.5
	5	6000	4000	6000	7.5/4.5	≤6.5
	4	6000	4000	6000	3.8/2.4	≤4.5
29	4	6000	4000	6000	7.3/4.5	≤6
	5	4000	/	4000	9/6.4	≤5.5
	5	6000	4000	6000	9/5.4	≤6.5
	4	6000	4000	6000	4.6/2.9	≤4.5

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.

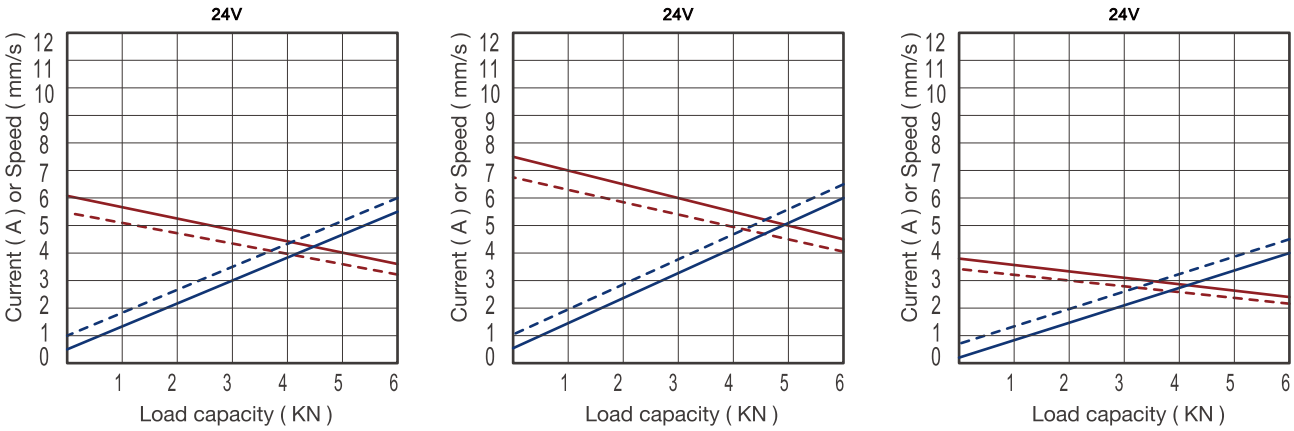
Diagram of relationship between stroke length and load

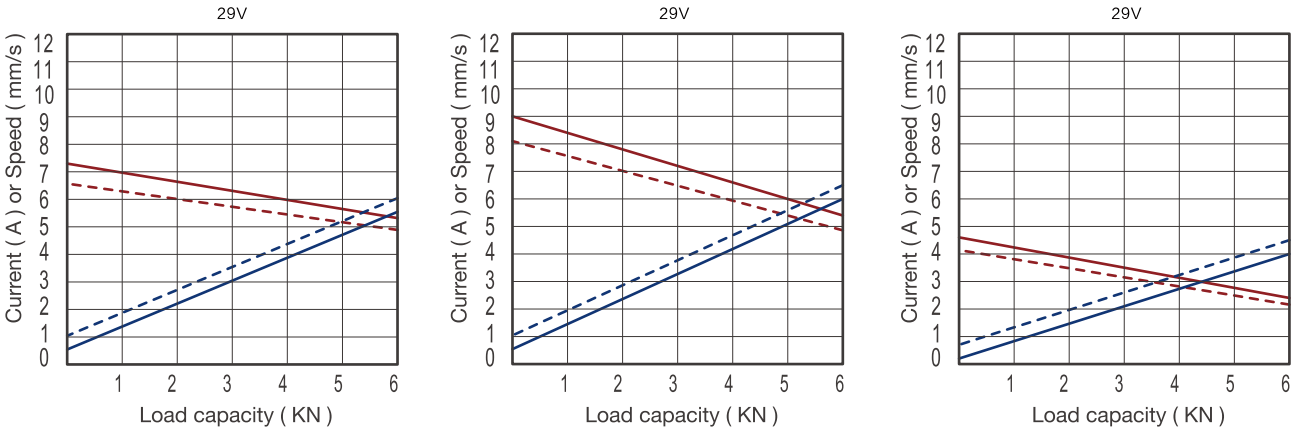


Characteristic Curve

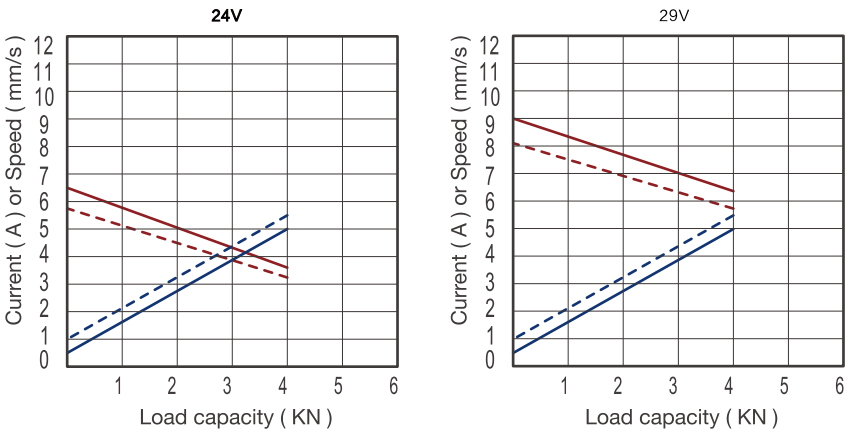
Typical speed
Min. speed
Typical current
Max. current

6000N





4000N



Ordering Key

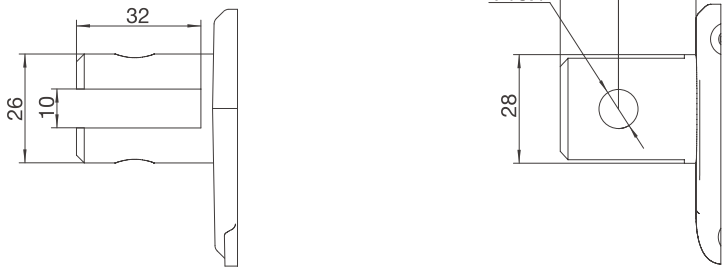
Take **JC35L906424100/275HG02G022021D5** as an example

Model	**JC35L9**	
Optional features	**X**	0 = Standard / P = Only push / S = Safety nut / Y = Hall sensor R = Reed switch / PY = Only push + Hall sensor
Load in push	**X**	6 = 6000N / 4 = 4000N
Speed at full load	**X**	3D8=3.8mm/s 4D5=4.5mm/s 2D4=2.4mm/s
Input voltage	**XX**	24 = 24VDC
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	**XX**	B02= slot 10, depth 32, hole ϕ10.1 B07= slot 6.5, depth 28, hole ϕ10.1
End clevis material	**X**	L = Aluminium alloy / G = Cast steel alloy
Front clevis specification	**XX**	F05= slot 6.5, depth 26, hole ϕ10.1 with plastic bushing F09= hole ϕ10.1 with plastic bushing
Brake specification	**X**	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 / 1D5 = 1.5m

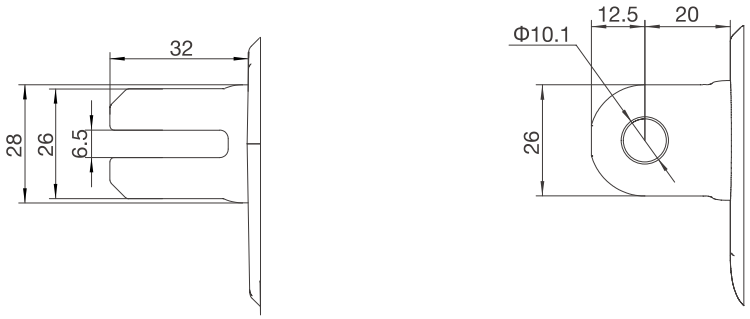
Ordering Details

Dimensions of clevis

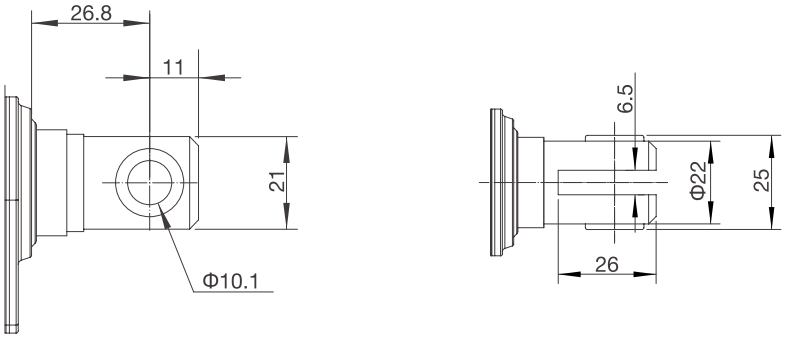
End clevis: B02



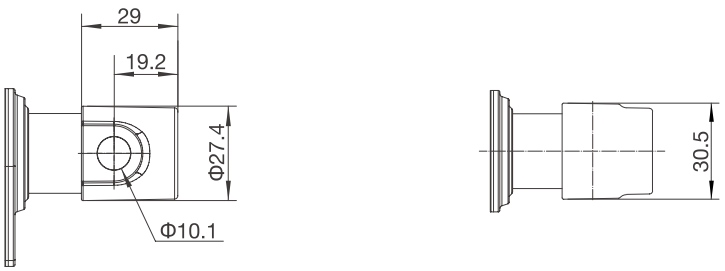
End clevis: B07



Front clevis: F05

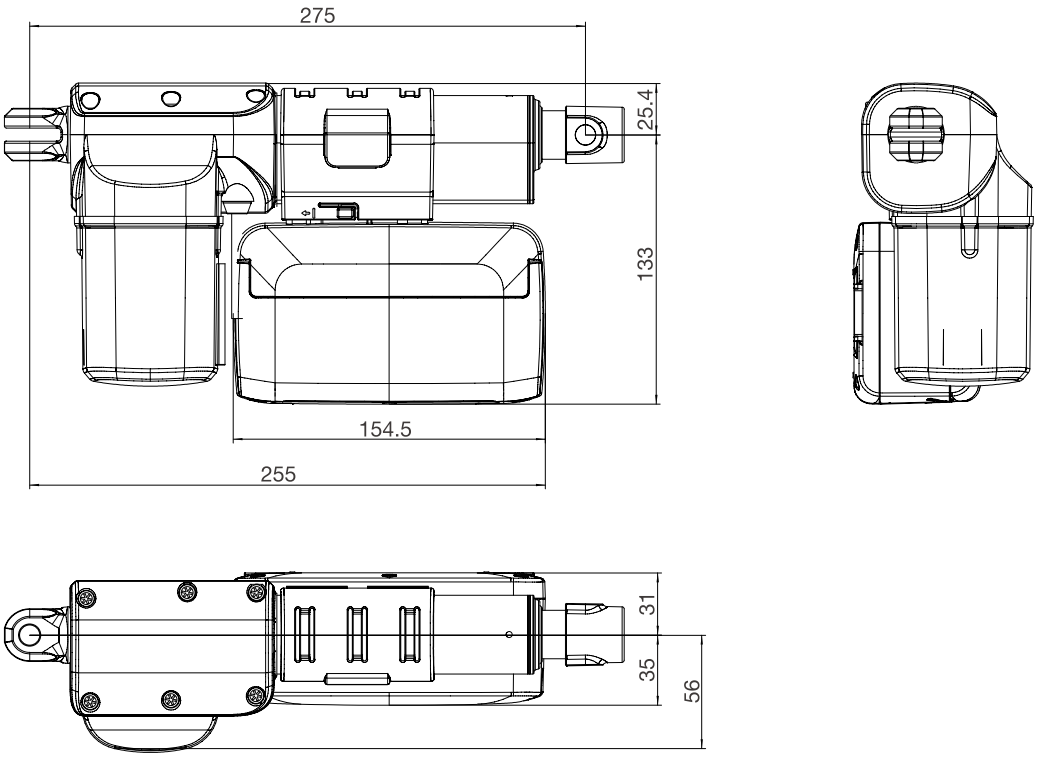


Front clevis: F09



Dimensions of JC35L9 with control box

JCB35Q installing with JC35L9



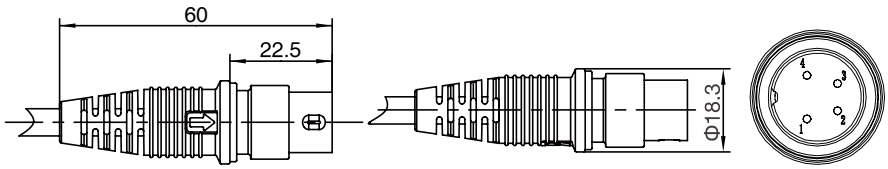
Motor cable

4 Pin Din Connector (standard)

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

Pin	Color	Function
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



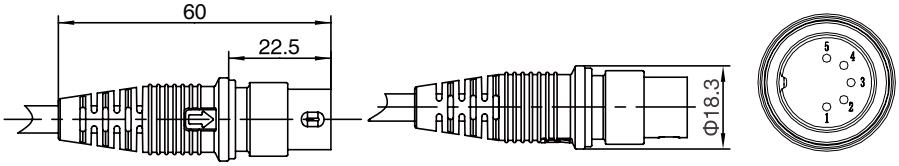


5 Pin Din Connector (with Hall sensor)

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

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