JC35C Linear Actuator

Application field - Medical Line & Care Line
Preferably in medical bed, operating table, nursing bed and other fields.

JC35C is a quiet and compact actuator designed for a variety of applications.
It is improved from JC35B. JC35C is featured with its rich specifications and low noise. It is rated IPX4 and can load up to 8000N.



Features And Options

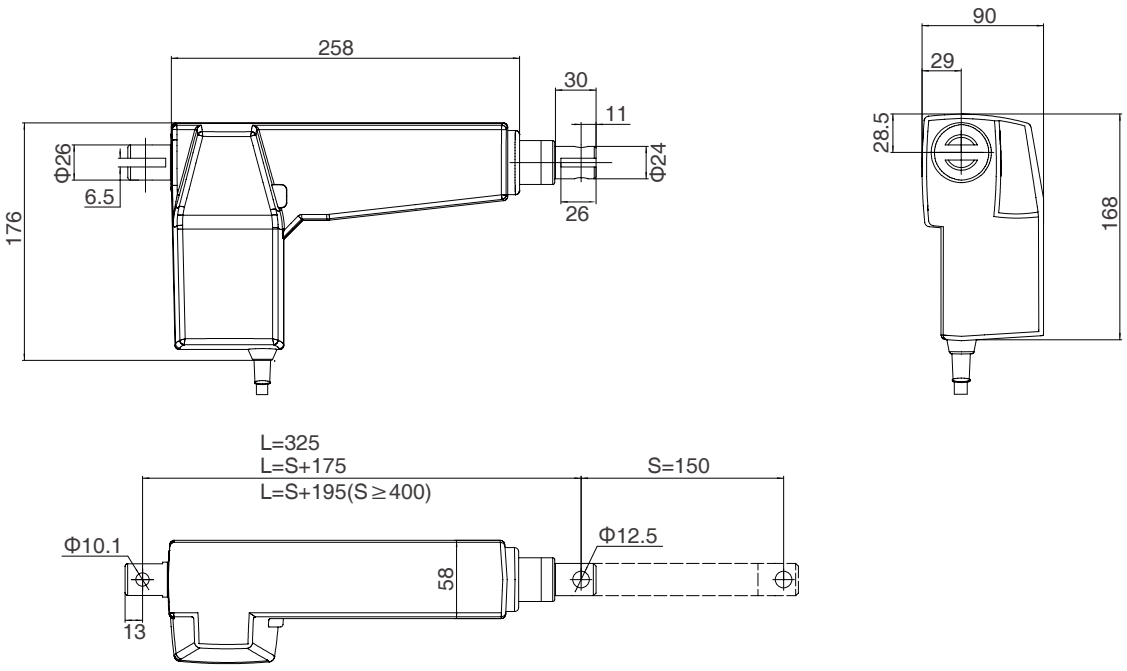
Dynamic Load Push(N):	8000 | 6000 | 4000 | 2000
Dynamic Load Pull (N):	4000 | 2000
Stroke length:	8000N: 50-400mm | 6000N: 50-400mm 4000N: 50-500mm | 2000N: 50-550mm
Installation dimension:	L=S+175(Lmin=325) L=S+195(S≥400)
Colour:	Gray / black
Limit switch:	Built-in (electronic)
Weight:	About 2kg (different stroke length and installation dimensions with different weight)
Noise level:	≤50dB (environmental noise≤40dB)
Static Bending Moment:	Lateral load is not allowed
Protection Class:	IPX4
Options:	Reed switch
Approval:	IEC60601-1:2012 EN60601-1:2006+A12:2014 ANSI/AAMI ES60601-1:2005 (R) 2012 and A1:2012, C1:2009/ (R) 2012 and A2:2010/ (R)2012

Usage

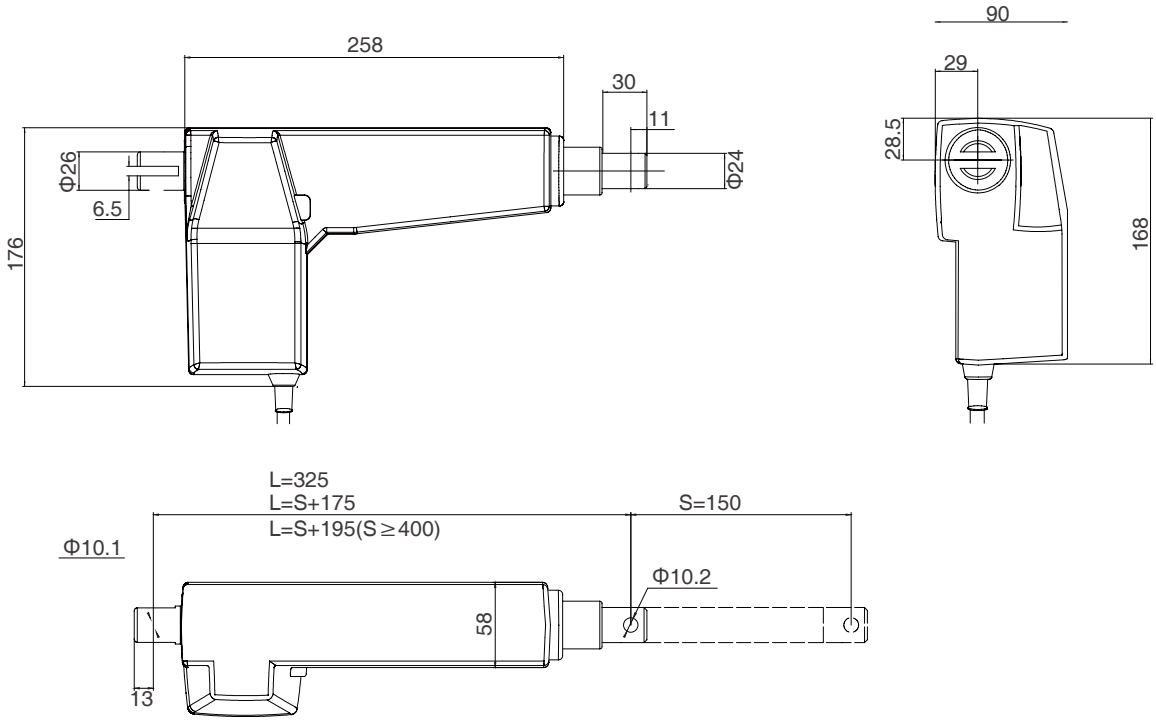
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off
Operating Temperature:	+5°C to +40°C
Reserve Temperature:	-10°C to +50°C
Supporting Control Box:	Matching with JIECANG control box
Relative Humidity:	Under 30°C, 20% to 90%, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimensions

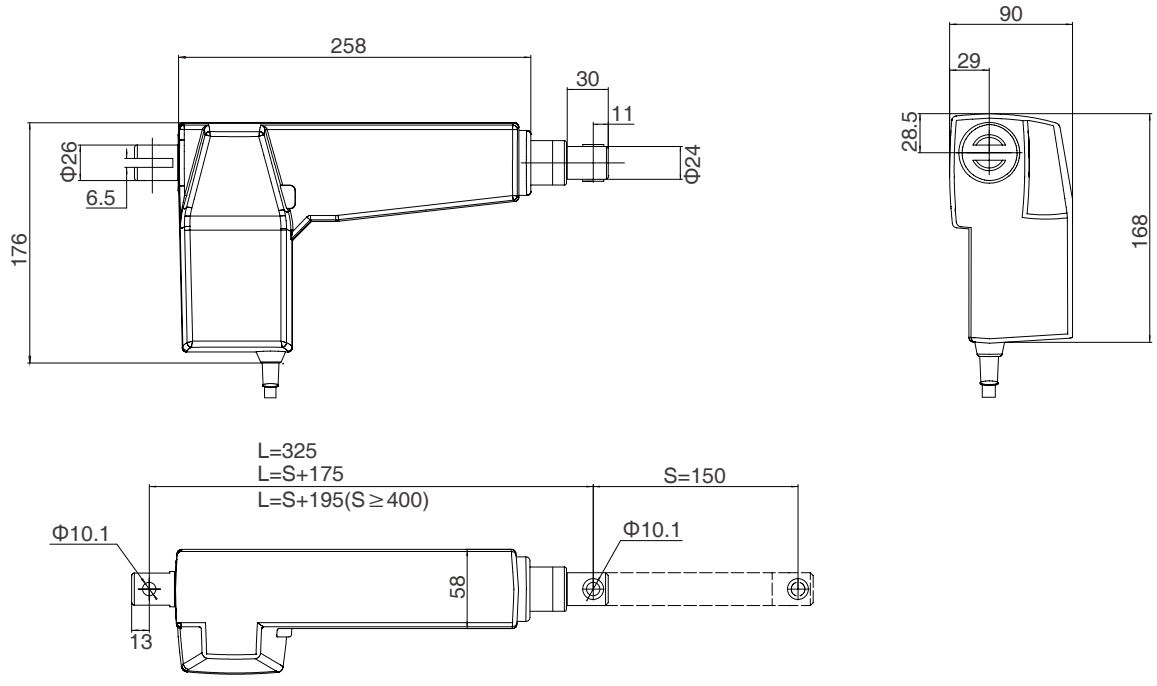
Front clevis F01, end clevis D



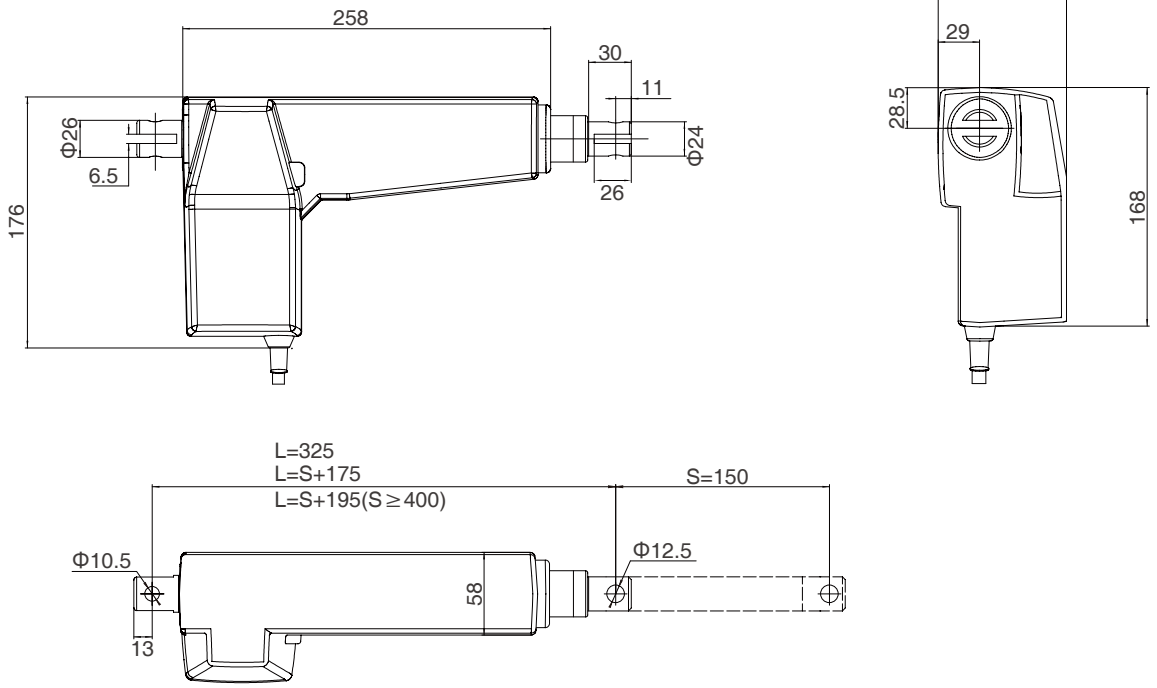
Front clevis F43, end clevis D



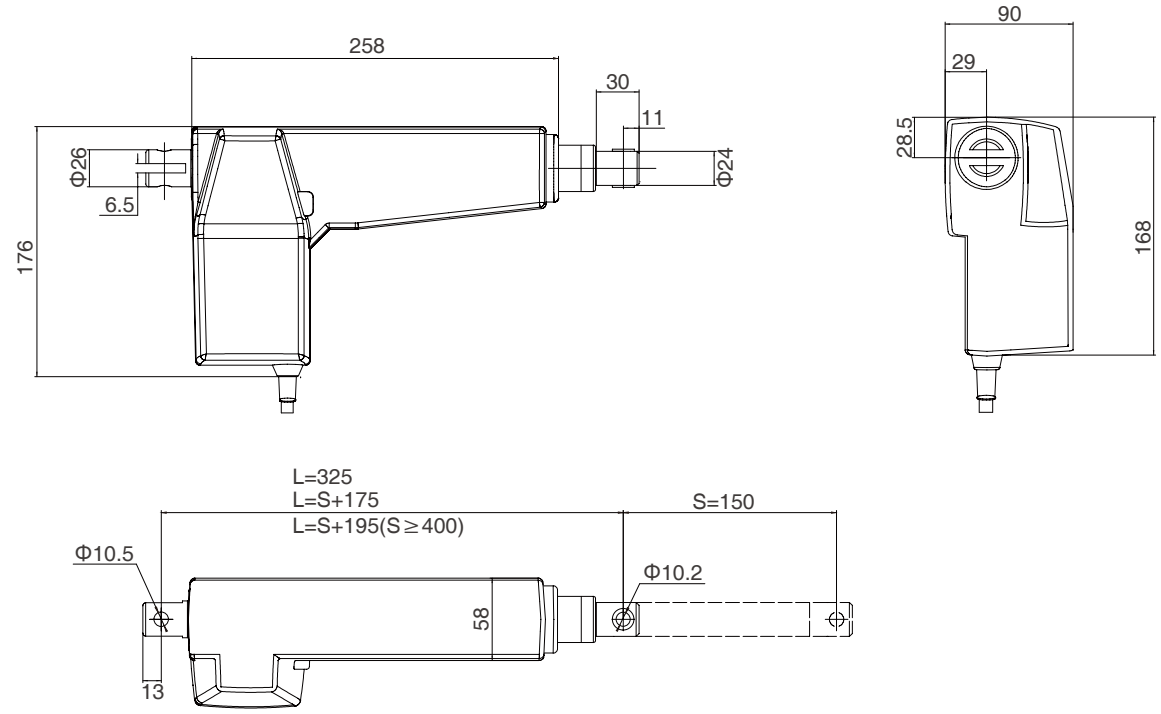
Front clevis F04, end clevis D



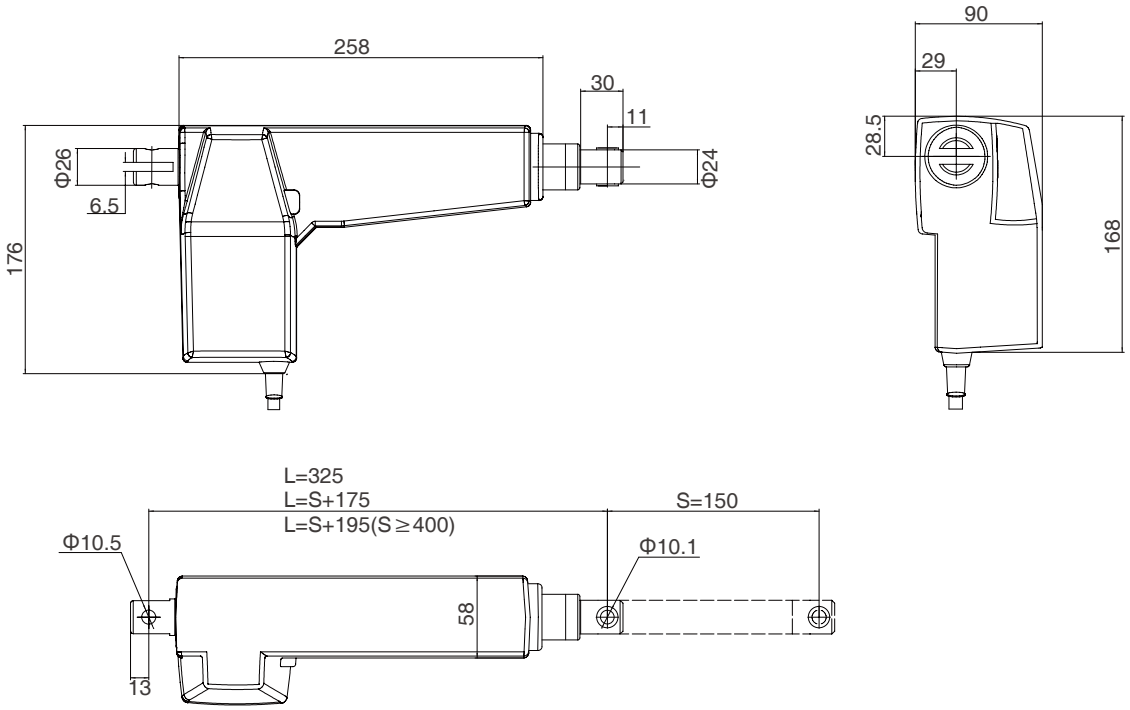
Front clevis F01, end clevis E



Front clevis F43, end clevis E



Front clevis F04, end clevis E

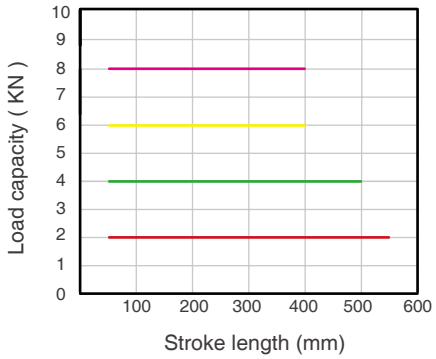


Technical Specifications (Standard Value)

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	8000	4000	8000	8.2/4	≤9.2
24	4	8000	4000	8000	5.1/3.3	≤6.1
24	5	8000	4000	4000	6.7/3	≤9.2
24	4	6000	4000	6000	5.1/3.5	≤5.5
24	4	4000	4000	4000	10/6.5	≤6.1
24	5	4000	4000	4000	6.7/4	≤6.8
24	7.5	4000	4000	4000	10/6.2	≤6.1
24	4	2000	2000	2000	11.3/9	≤4.1
29	4	8000	4000	8000	9.8/4.8	≤9.7
29	4	8000	4000	8000	6.1/4	≤6.6
29	5	8000	4000	4000	8/3.6	≤9.7
29	4	6000	4000	6000	6.1/4.2	≤6.1
29	4	4000	4000	4000	12/7.8	≤6.6
29	5	4000	4000	4000	8/4.8	≤7.3
29	7.5	4000	4000	4000	12/7.44	≤6.6
29	4	2000	2000	2000	13.5/10.8	≤4.6

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;

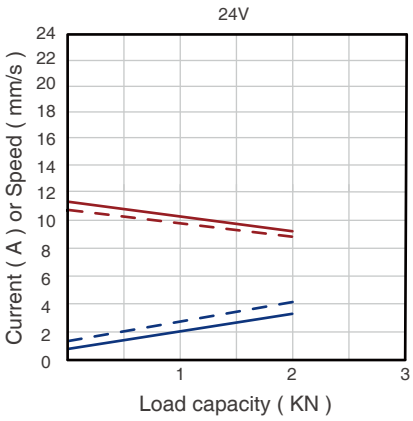
Diagram of relationship between stroke length and load

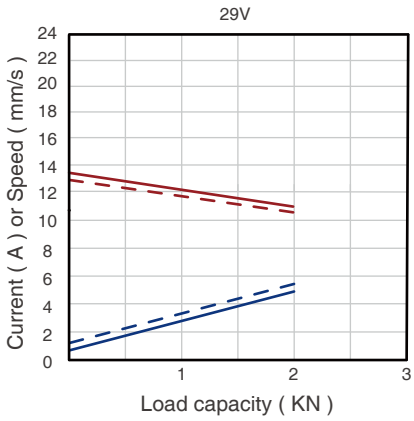


Characteristic Curve

Typical speed
Min. speed
Typical current
Max. current

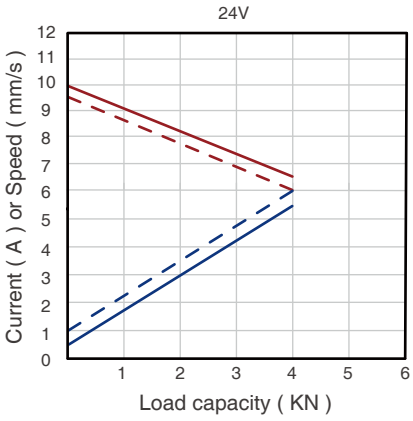
2000N

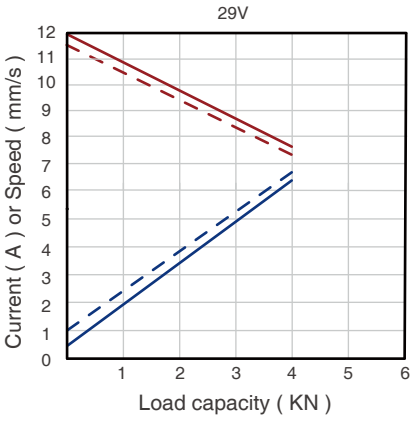


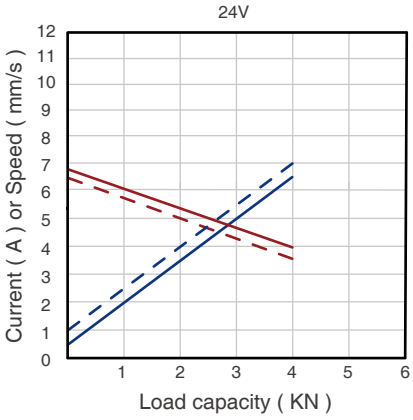


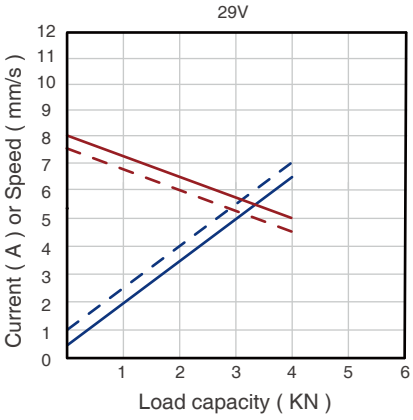
Typical speed
Min. speed
Typical current
Max. current

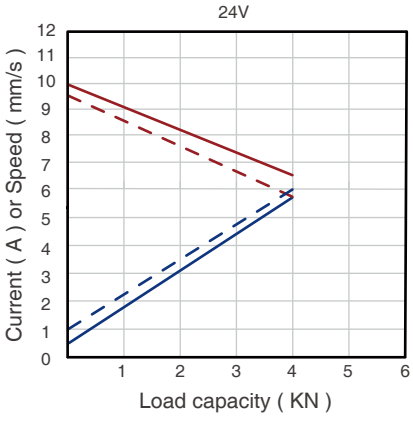
4000N

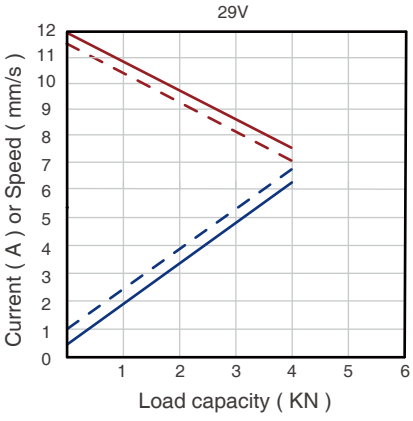






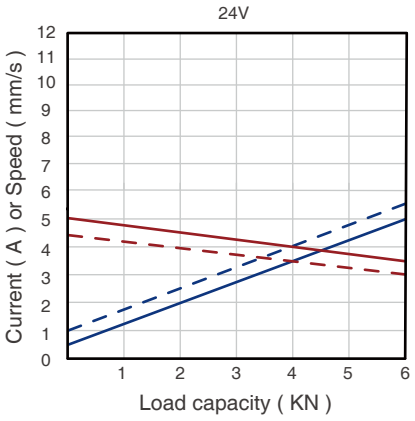


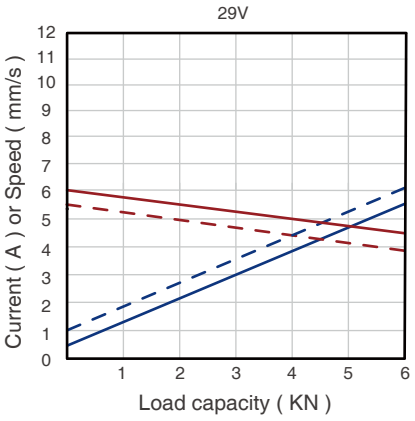




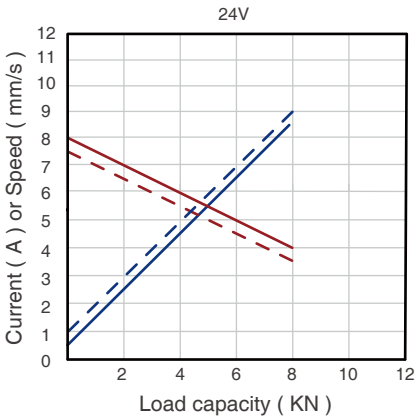
Typical speed
Min. speed
Typical current
Max. current

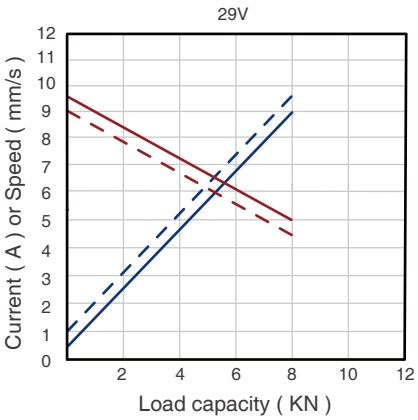
6000N

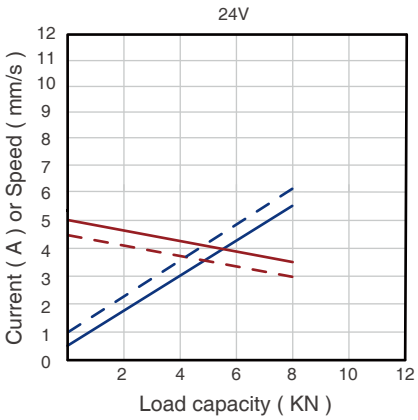


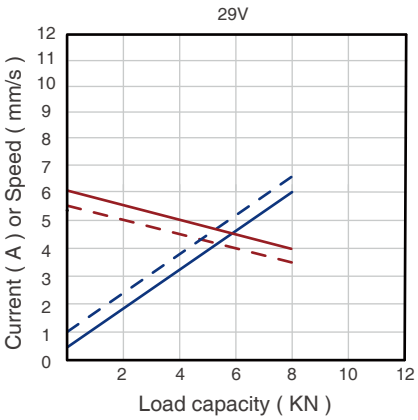


8000N

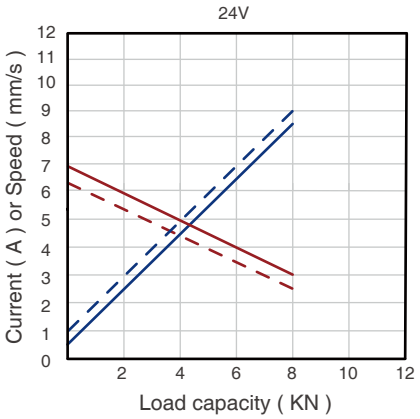


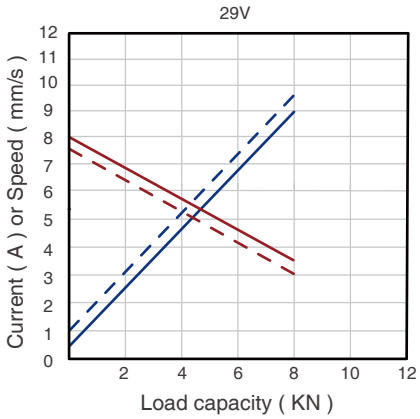






Typical speed
Min. speed
Typical current
Max. current





Ordering Key

Take **JC35C083D324300/475HGDTF010021D5** as an example

Model	**JC35C**	
Optional features	**X**	0 = Standard / R = Reed switch
Load in push	**X**	8 = 8000N / 6 = 6000N / 4 = 4000N / 2 = 2000N
Speed at full load	**X**	3D3 = 3.3mm/s 4 = 4mm/s
Input voltage	**XX**	24 = 24VDC / 29 = 29VDC
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, the hole diameter Φ10.1 E = slot 6.5, the hole diameter Φ10.5
End clevis material	**X**	T = Split steel end clevis
Front clevis specification	**XX**	F01= slot 6.5, depth 26, ϕ12.5 F04=slot 6.5, depth 26, ϕ10.1 with plastic bushing F43= ϕ10.2 with plastic bushing
Brake specification	**X**	0 = Standard 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**	1D5 = 1.5m / 2D0 = 2m

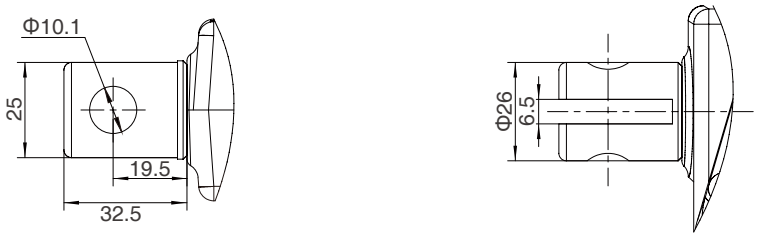
Ordering Details

Dimensions of clevis

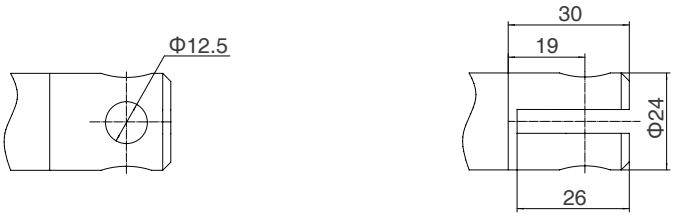
End clevis: E



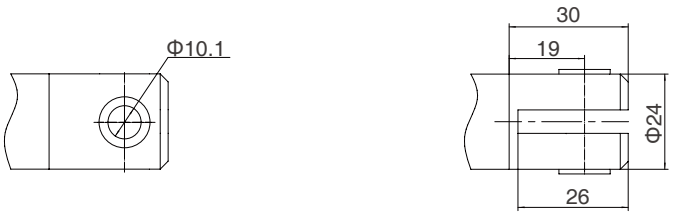
End clevis: D



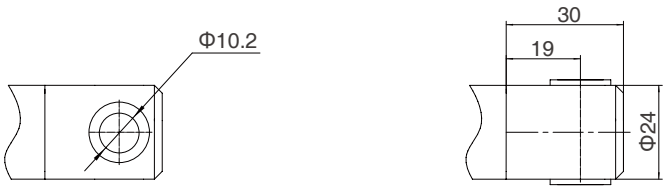
Front clevis: F01



Front clevis: F04



Front clevis: F43



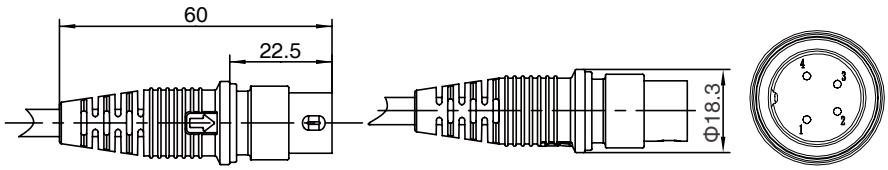
Motor cable

4 Pin Din connector (standard)

Supporting control box:
JCB35Q / JCB35T / JCB35R /
JCB35R1 / JCB35S / JCB35K2

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



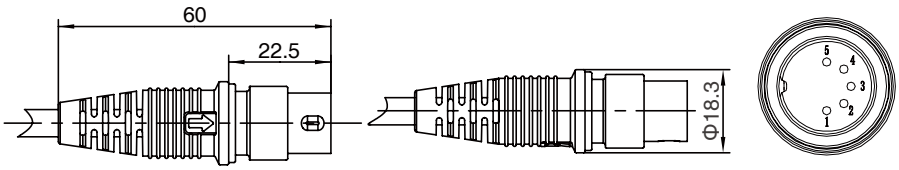


5 Pin DIN connector (with Hall sensor)

Supporting control box:
JCB35Q / JCB35T / JCB35R /
JCB35R1 / JCB35S / JCB35K2

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





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