

Actuator **BD23**

BD23 is a quiet and robust actuator, with its speed well-maintained either with or without load. Besides, BD23 can be presented with its cable coming either on the front or the rear end, depending on your choice, and is designed to be connected to the handset and power supply to make up a simple system without control box for furniture applications like recliner sofa.



Features and Options

Main applications: Furniture, recliner sofa

Standard features:

- Input voltage: 24V DC
- Max. load: 1500N (Push/Pull)
- Max. speed at no load: 40mm/sec (Typical value)
- Max. speed at full load: 33mm/sec (Typical value @1500N loaded)
- Stroke: 40 ~ 230mm
- Noise level: ≦53dB
- Preset limit switches
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Operating ambient temperature: -20°C ~ +65°C
- Storage ambient temperature: -25°C ~ +65°C

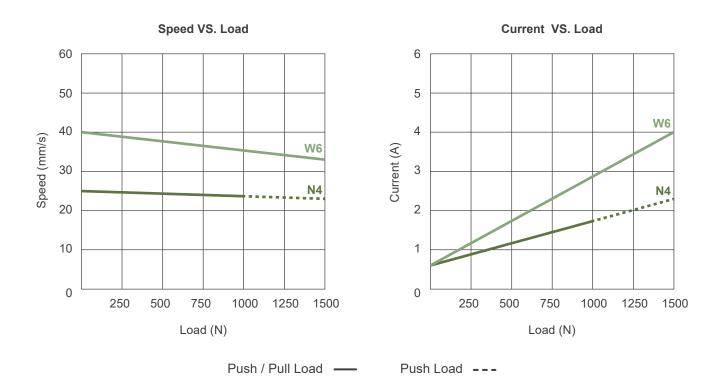
Options:

- Location of cable outlet
- There are 3 plastic slider block type can be chosen

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Performance Data

Model No.	Push Max. (N)	Pull Max. (N)	Typical speed (mm/s) *		Typical current (A) @24V DC *	
Model No.			No load	Full load	No load	Full load
BD23-XX-24- N4 -XXX.XXX	1500	1000	25	23	0.6	2.3
BD23-XX-24- W6 -XXX.XXX	1500	1500	40	33	0.6	4.0



Remarks:

* The typical speed or typical current means the average value neither upper limit nor lower limit, which measured under room temperature and stable power. The performance curves are made with typical values.

Dimensions

Extended length = Retracted length (A) + Stroke (S)

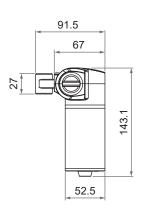
Front connector type	Available stroke range (S)	Retracted length (A)
R, B	40≦S≦230mm	A≧133mm (±3mm)
С	50≦S≦230mm	A≧156mm (±3mm)

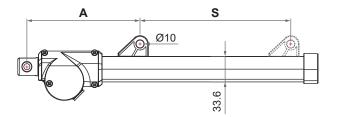
Drawing

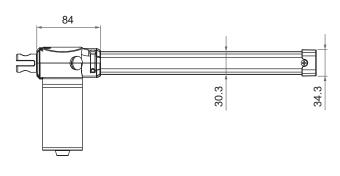
• Front connector

R: R-type plastic slider block



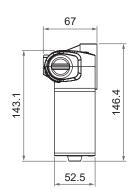


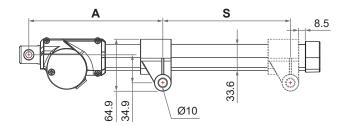


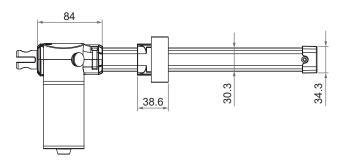


B: B-type plastic slider block



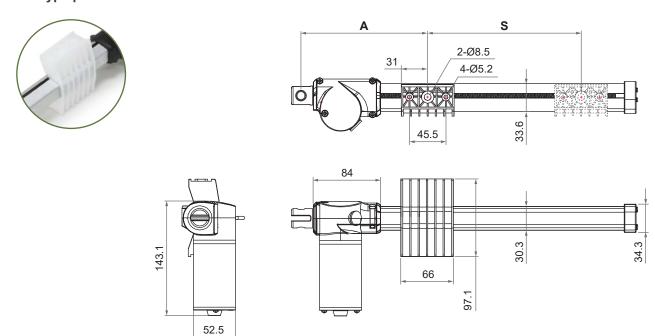






Unit: mm

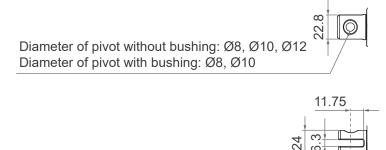
C: C-type plastic slider block



Unit: mm

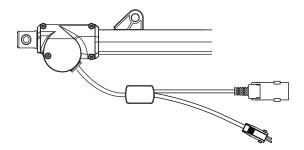
• Rear connector

2: Metal

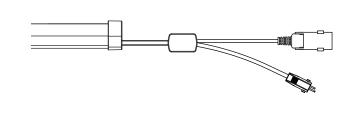


• Location of cable outlet





F: Front end outlet



Note: B-type plastic slider block must choose rear end outlet.

Compatibility

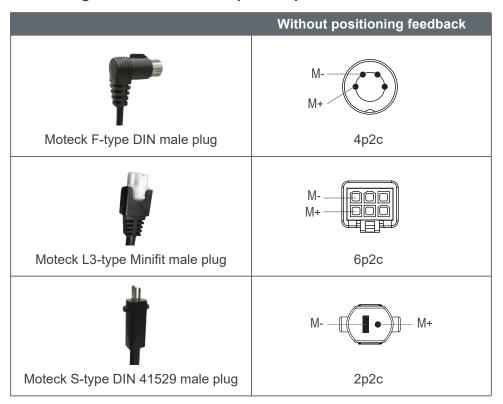
Product	Model	BD23 spec	
Control box	T-control, CS1, CS2, CB3T, CB4M, CBT2	Without positioning sensor With Moteck F-type 4-pin DIN plug	
	CF11H, CF12H	Without positioning sensor With Moteck L3-type minifit 6-pin plug	
Hand control	Depend on control box	Powered by control box	
	HS15	• With Moteck S-type DIN 41529 male plug ⁽¹⁾	
	HB, TPSL, HS02, HZ02, HZ03, HZ04, HZ05, HZ06	• With Moteck direct-cut power cable DL1 (2)	
Accessory	Power adapter: DPA-58-2920-C8 (formerly TSW1), DPA-87-2930-C6 (formerly TSW3), WPA-29-2910-NA (formerly TSW4), DPA-87-2930-C8	With Moteck direct-cut power cable DL1	
Seating frame (Not included in Moteck product scope)	6054	• BD23-B2-24-N4-175.475-R4	
	5181	• BD23-C2-24-W6-156.360-F4	
	368TX	• BD23-R2-24-N4-156.360-F4	

Remarks:

- (1) The S-type DIN 41529 plug of the actuator is connected to the HS15 hand control directly, no control box.
- (2) The actuator is connected to the hand control through the DL1 cable directly, no control box.

Cable Plug

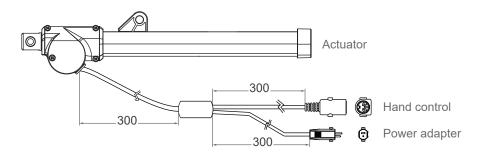
A. Connecting control devices that provide power



Note: Connect M1+ to "Vdc +" & M1- to "Vdc -" of DC power to extend the M1 actuator. Switch the polarity of DC input to retract it.

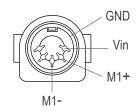
B. Connecting control devices that DO NOT provide power

- 1. Cable solution
 - With direct-cut power cable DL1



2. Hand control connector: Moteck U-type DIN 5-pin female connector

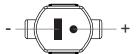
• 1 drive



Note: Connect M1+ to "Vdc +" & M1- to "Vdc -" of DC power to extend the M1 actuator. Switch the polarity of DC input to retract it.



3. Power connector: Moteck S-type DIN 41529 2-pin male plug



Cable with Flying Leads

• Basic, without positioning feedback.

	Wire color	Definition	Descriptions	
Power	White	DC Power	Connect white wire to "Vdc +" & black wire to "Vdc -" of DC power	
wires	Black		to extend the actuator. Switch the polarity of DC input to retract it.	

Ordering Key

