

Actuator MD51

MD51 is a compact and powerful actuator up to 3500N thrust, which is designed for the use in medical care application, such as patient lift nursing chair and wheel chair.



Features and Option

Main applications: Medical Care Standard features:

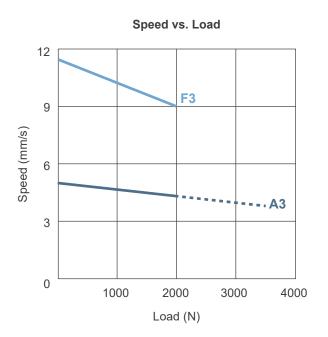
- Input voltage: 24V DC
- Max. load: 3500N (push) / 2000N (pull)
- Typical speed at no load: 11.4 mm/sec
- Typical speed at full load: 3.8 mm/sec @ 3500N
- Stroke: 100 ~ 600 mm
- Noise level: ≦65dB
- IP Protection level: IP66
- Color: Black
- Present limit switches
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Ambient operation temperature: -20°C ~ +60°C
- Certified: CE Marking, EN 60601-1, IEC 60601-1, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-8 (F3 only)

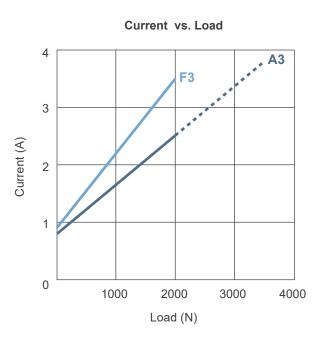
Option:

- Mechanical push only extension tube

Performance Data

Model No.		Pull Max.	*Typical speed (mm/s)		*Typical current (A) @ 24V	
	(N)	(N)	No load	Full load	No load	Full load
MD51-24-A3-XXX.XXX-CXX	3500	2000	5.0	3.8	0.8	3.8
MD51-24-F3-XXX.XXX-CXX	2000	2000	11.4	9.0	0.9	3.5





Push / Pull Load 🛛 —

Push Load ---

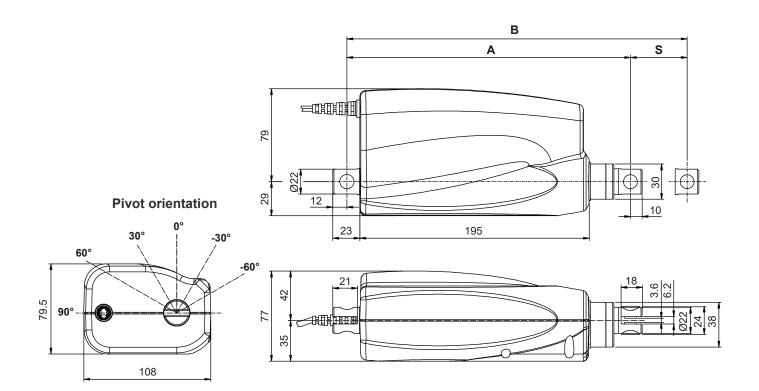
Remarks:

*The typical speed or typical current means the average value neither upper limit nor lower limit. The performance curves are made with typical values.

Dimensions

- Available stroke (S) range = 100 \sim 600 mm •
- Extended length (B) = (S) + (A)

Stroke (S)	Retracted length (A)
≦300 mm	S+141 mm (±3mm)
>300 mm	S+160 mm (±3mm)

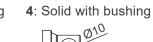


Front Connector

1: Slot with bushing











5: Solid w/o bushing

6: Solid w/o bushing

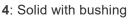


Rear Connector

1: Slot with bushing









5: Solid w/o bushing

Ø12



6: Solid w/o bushing

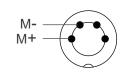


Compatibility

Product	Model	Compatible requirement		
Control box	СВЗТ	- With Moteck F-type 4-pin DIN plug		
Control box	CM42	- With Moteck J1-type ø6.35 phone jack		

Plug type

Moteck F-type DIN plug

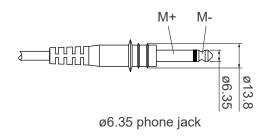


4-pin DIN plug





• Moteck J1-type phone jack





Note:

Connect Pin (M+) to "+" & Pin (M-) to "-" of DC power, the actuator will extend.

Cable with Flying Leads

	Wire color	Definition	Comments	
Power	Red	DC power	Connect red wire to "Vdc +" & black wire to "Vdc -" of DC power to	
wires	Black	DC bowei	extend the actuator. Switch the polarity of DC input to retract it.	

	MD51 - 24 - A3 - 341 . 541 - C 1 1 - P 1 1		
Input voltage	24: 24V DC		
Motor and Spindle type	A3: Standard version F3: Fast version (Refer to Performance Data)		
Retracted length	XXX (Refer to Dimensions)		
Extended length	XXX (Refer to Dimensions)		
Front connector	 1: Slot with bushing, Ø10 mm 2: Slot w/o bushing, Ø12 mm 4: Solid with bushing, Ø10 mm 5: Solid w/o bushing, Ø12 mm 6: Solid w/o bushing, Ø10 mm (Refer to Dimensions) 		
Rear connector	 Slot with bushing, Ø10 mm Slot w/o bushing, Ø12 mm Solid with bushing, Ø10 mm Solid w/o bushing, Ø12 mm Solid w/o bushing, Ø10 mm (Refer to Dimensions) 		
Option	0: None P: Push only		
Pivot orientation of rear connector	1: 0° (standard) 2: 30° 3: 60° 4: 90° 5: -30° 6: -60°		
Cable length	1: 300 mm straight 2: 1000 mm straight		



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