Actuator
MD66

MD66 is a quiet and powerful actuator up to 6000N thrust, designed for use in home care and medical bed. The control boxes, MD6C and CB2P, which can be perfectly attached and integrated to MD66 are available for customers to choose.

Feature

- Main applications: Homecare, medical
- Input voltage: 24V DC
- Max. load: 6000N (push) / 4000N (pull)
- Max. speed at no load: 16.6 mm/sec
- Max. speed at full load: 2.9 mm/sec @ 6000N
- Stroke: 50 ~ 300 mm
- Noise level: ≦50dB
- IP Protection level: IPX5
- Clevis type of metal connectors. Rear connector's pivot oritention can be chosen in every 30 degrees.
- Preset limit switches
- Color: Light gray RAL 7035
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Ambient operation temperature: +5°C ~ +40°C
- Certified: CE Marking, EMC Directive 93/42/EEC

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Option

- Positioning signal feedback with Hall effect sensor x 1
- Positioning signal feedback with Hall effect sensor x 2
- Mechanical push only extension tube
- Safety nut (in push direction)
- Mechanical brake

Compatibility

Product	Model	MD66 spec
Control box	CB2P*, CB4P, CB4P-HP, MD6C*, MD7C	- Without positioning sensor feedback - 4-pin Moteck H-type or V-type DIN plug
	CB4P-SY	- With dual Hall effect sensors - 6-pin Moteck H-type or V-type DIN plug

***Remarks:**
MD6C & CB2P control box can be attached to MD66 actuator.

MD66+MD6C

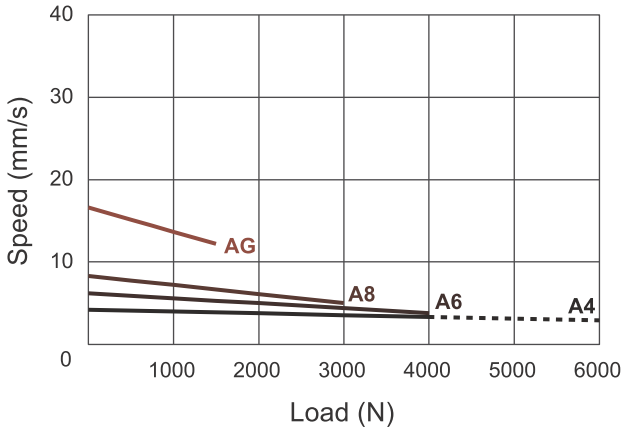
MD66+CB2P

Performance Data

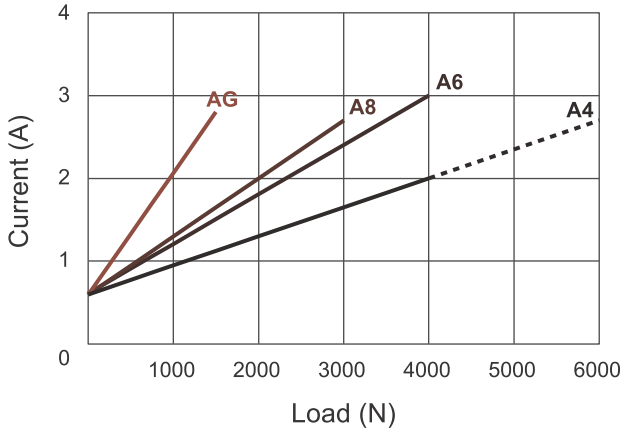
Model No.	Push Max. (N)	Pull Max. (N)	*Self-locking ability (N)	Typical Speed (mm/s)		Typical Current (A) @ 24V	
				No load	Full load	No load	Full load
MD66-24-**A4**...	6000	4000	5000	4.2	2.9	0.6	2.7
MD66-24-**A6**...	4000	4000	2500	6.2	3.8	0.6	3.0
MD66-24-**A8**...	3000	3000	2000	8.3	5.0	0.6	2.7
MD66-24-**AG**...	1500	1500	700	16.6	12.2	0.6	2.8
MD66-24-**F4**...	5000	4000	5000	5.5	4.4	0.6	2.8
MD66-24-**F8**...	3000	3000	2000	11.0	8.2	0.6	2.9

***Remarks:**
Mechanical brake is option upon request, to enhance the braking ability conforming to maximum load.

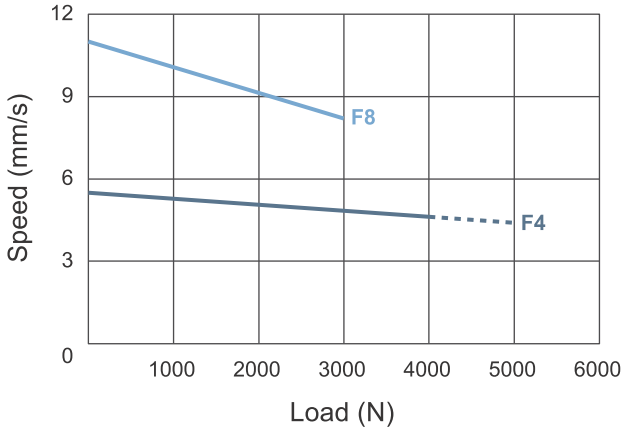
Speed vs. Load



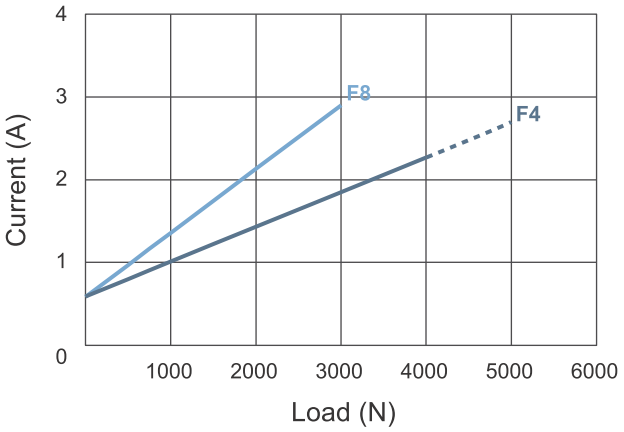
Current vs. Load



Speed vs. Load

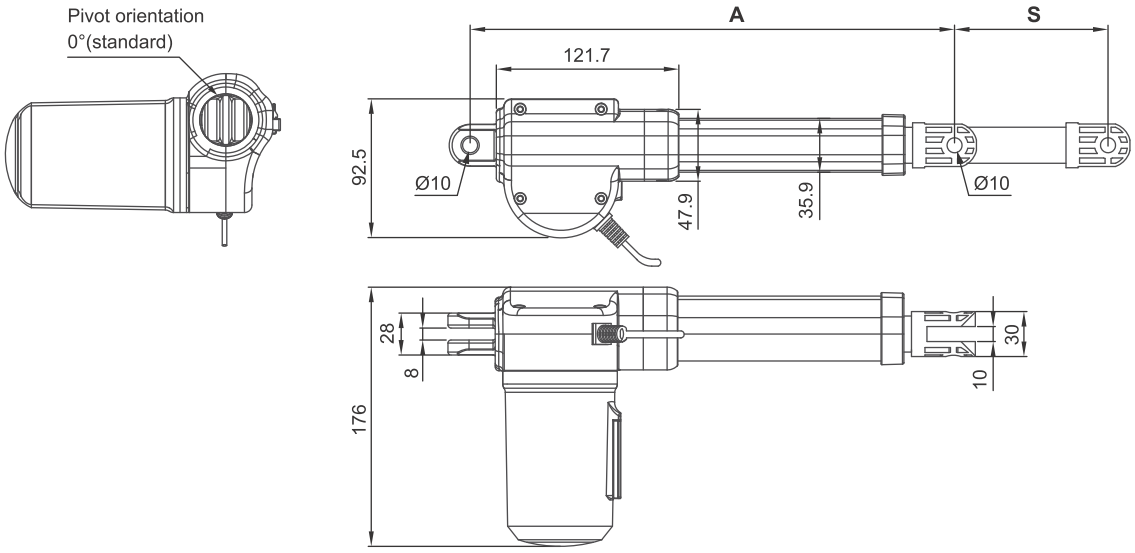


Current vs. Load



Push / Pull Load —— Push Load - - -

Dimensions



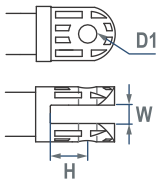
Installation Dimension

Front connector code	Retracted length (A)	Safety nut
3, 4, 7	A≧S+160 mm (±3mm)	Add 8 mm to retracted length (A)
1, 6, 8	A ≧S+188 mm (±3mm)	

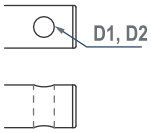
Available stroke (S) range = 50 ~ 300 mm
Extended length = S + A

Front Connector

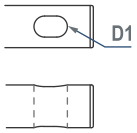
1: Plastic



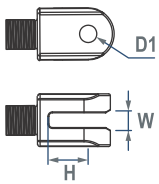
3: Drilled hole



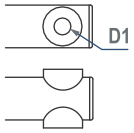
4: Oval hole



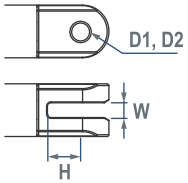
6: Enhanced plastic



7: Drilled hole with nylon bushing



8: Aluminum alloy clevis



Front connector code	Diameter of pivot without bushing (D1)	Diameter of pivot with plastic bushing (D2)	Slot width (W)	Slot depth (H)
1	Ø8, Ø10, Ø12	N/A	10	18
3	Ø8, Ø10, Ø12, Ø14	Ø8, Ø10	N/A	N/A
4	Ø8x20, Ø8x25, Ø10x15	N/A	N/A	N/A
6	Ø10	N/A	8.2	20
7	Ø10	N/A	N/A	N/A
8	Ø10, Ø12	Ø8, Ø10	8	18.8

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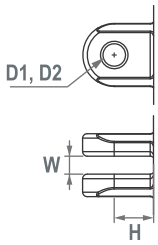
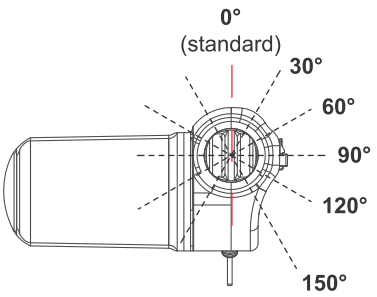
Rear Connector

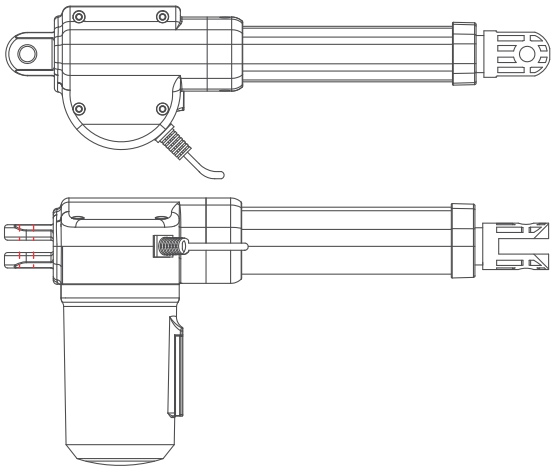
1: Aluminum alloy clevis
2: Zinc alloy clevis



Front connector code	Diameter of pivot without bushing (D1)	Diameter of pivot with plastic bushing (D2)	Slot width (W)	Slot depth (H)
1	Ø10, Ø12	Ø8, Ø10	8	18
2	Ø10, Ø12	Ø8, Ø10	8	18

Pivot orientation of rear connectors

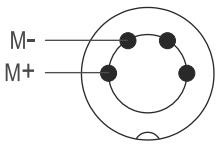




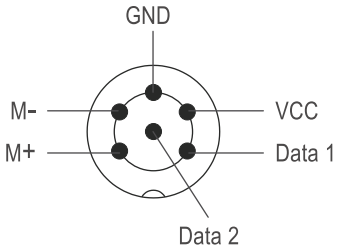
Note: As an example in 0° orientation.

Cable Plug

Moteck H-type or V-type DIN plug



Without positioning sensor feedback



With dual Hall effect sensors

V-type

H-type

Note:
Connect (M+) to '+' & (M-) to '-' of DC power, the actuator will extend.

Ordering Key

MD66 - 24 - A8 - 538 . 588 - C 8 2 - HS4 - PO-SN - 0 - 0

Input voltage	**24**: 24V DC
Motor and Spindle type	**A4** **A6** **A8** **AG** **F4** **F8** (Refer to Performance Data)
Retracted length	**XXX** (Refer to Dimensions)
Extended length	**XXX** (Refer to Dimensions)
Front connector	**1**: Plastic **3**: Drilled hole **4**: Oval hole **6**: Enhanced plastic **7**: Drilled hole with nylon bushing **8**: Aluminum alloy clevis (Refer to Dimensions)
Rear connector	**1**: Aluminum alloy clevis **2**: Zinc alloy clevis (Refer to Dimensions)
Positioning feedback	**Blank**: None **HS3**: Hall effect sensor x 1 **HS4**: Hall effect sensor x 2
Option (multiple choice is allowed)	**Blank**: None **PO**: Push only **SN**: Safety nut (add 8mm to retracted length) **BK**: Mechanical brake
Pivot orientation of rear connector	**0**: 0° (standard) **3**: 30° **6**: 60° **9**: 90° **C**: 120° **F**: 150°
Cable length	**0**: 300 mm straight **1**: 1000 mm straight **2**: 450 mm with 300 mm coiled

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