CRD
D E V I C E S

Actuator
MD80

Features

◆ MD80 is a quiet and powerful actuator designed for use in a variety of medical and home care applications such as patient hoist and bed.

◆ Main applications：homecare, medical

◆ Input voltage：24V DC

◆ Max. load：8000N (push) / 6000N (pull)

◆ Max. current：5.5A

◆ Max. speed at no load：16.6mm/sec

◆ Max. speed at full load：6.7mm/sec @ 8000N

◆ Stroke：50 ~ 400mm

◆ Duty cycle：10% or 2 min. continuous operation in 20 min.

◆ IP protection level：IPX4

◆ Color：RAL 7035

◆ Certified：EN60601-1-2 / EN55011 / EN61000-4-2 / EN61000-4-3 / EN61000-4-8

◆ Noise level：＜53dB

◆ Preset limit switches

◆ Steel extension tube

◆ Working environment temperature：+5 ~ 40°C

◆ Clevis type of metal connectors. Rear connector's pivot angle can be chosen in every 30 degrees.

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Options

◆ Push only
◆ Safety nut (in push direction)
◆ IPX5 protection level
◆ QR2 quick release：To retract actuator quickly by pinching the QR2 grip while emergency.
◆ MR1 manual release：To retract actuator slowly and put down the patient safely by turning the MR1 knob with hand when losing power in the application of patient hoist.

Compatibility

1. **Control box**
   (1) CBP2 (φ 6.35mm loud speaker plug with Moteck J1 type housing φ 13.8)
   (2) CB4P-HP (DIN plug with Moteck H type or V type housing)

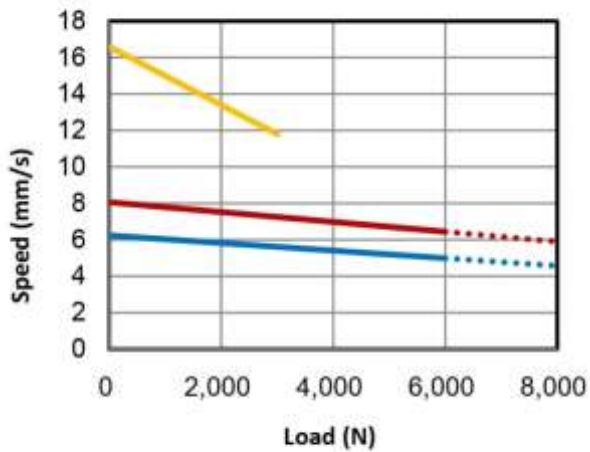| J1 type plug housing | H type plug housing | V type plug housing |

2. **Handset**
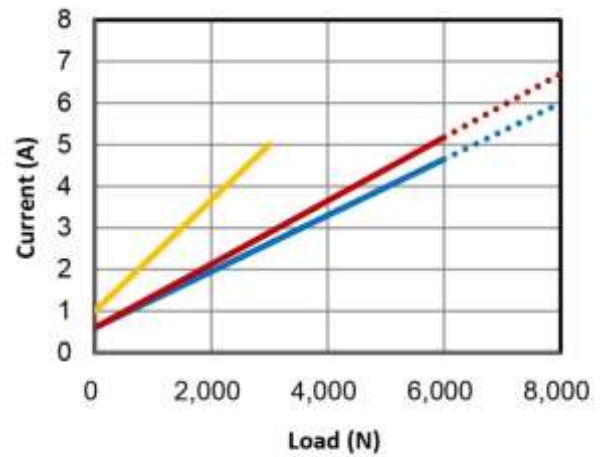   HC, HD, HF, HT

3. **Accessory**
   None

Performance Data

Model No.	Push Max. (N)	Pull Max. (N)	Typical Speed (mm/s)		Current (A) @ 24V	
			No load	Full load	No load	Full load
MD80-24-**A6**-xx-xxx.xxx-xxx	8,000	6,000	6.2	4.6	0.6	6.0
MD80-24-**A8**-xx-xxx.xxx-xxx	8,000	6,000	8.1	5.9	0.6	6.7
MD80-24-**K8**-xx-xxx.xxx-xxx	3,000	3,000	16.6	11.8	1.0	5.0

Speed vs. Load

Current vs. Load

Dimensions
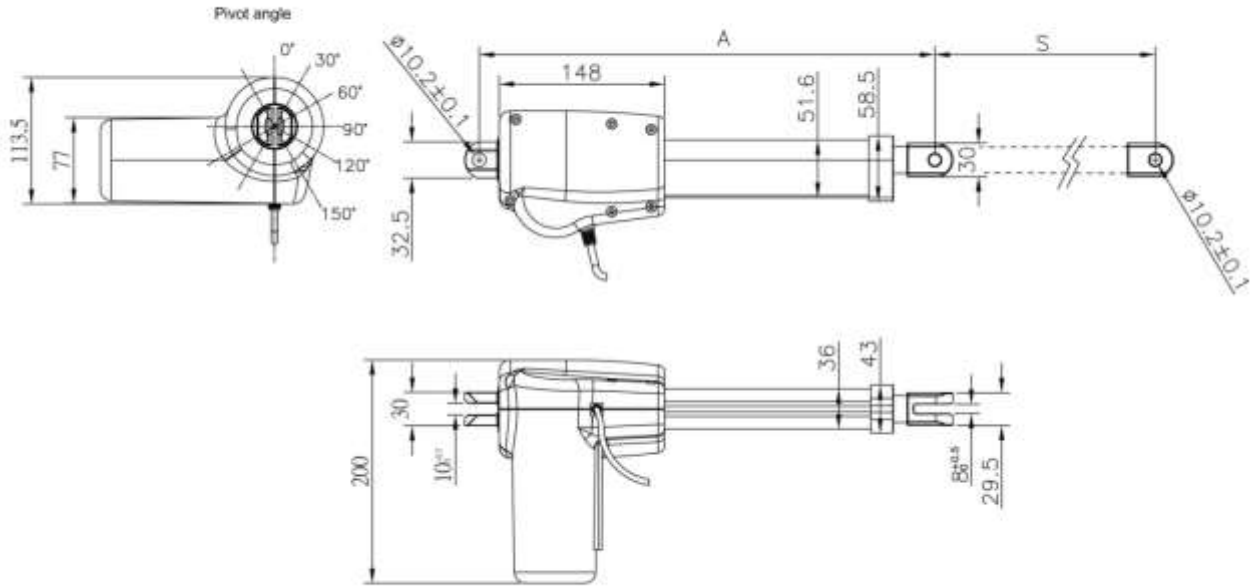
Unit: mm

Available Length

Options	Retracted Length (A)
Standard	A ≧ S + 210 mm
Safety Nut	Add 5 mm
MR1 manual release	Add 50 mm
QR2 quick release	Add 50 mm

Remarks: S= Stroke, 50~400mm available

Front connector with QR2   Front connector with MR1
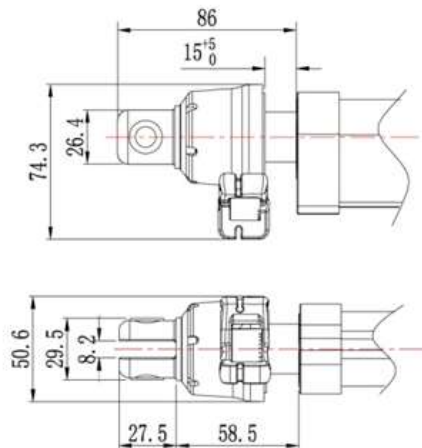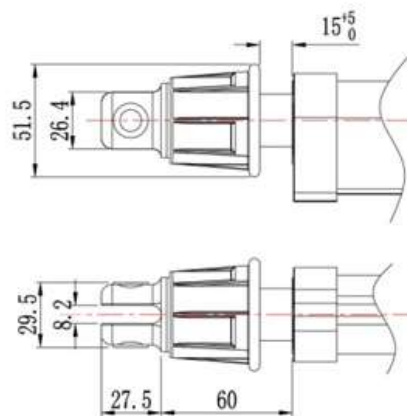
Ordering Key

MD80-☐☐-☐☐-☐☐☐.☐☐☐-C☐☐-☐☐☐☐☐☐-☐☐

Input Voltage
24：24V DC

Motor and Spindle Type
A6, A8, K8
(Refer to paragraph Performance Data)

Retracted Length
(Refer to paragraph Dimensions)

Extended Length
(=Retracted length + Stroke. Refer to Dimensions drawing)

Front Connector
8：Zinc alloy clevis, φ 10.2 pivot, 8mm grip

Rear Connector
1：Zinc alloy clevis, φ 10.2 pivot, 10mm grip

Safety Options
Blank：None
MR1：Manual release + Push only
QR2：Quick release + Push only
MR1-SN：Manual release + Push only + Safety nut
QR2-SN：Quick release + Push only + Safety nut

PO：Push only
SN：Safety nut
PO-SN：Push only + Safety nut

IP Protection Level
Blank：IPX4
X5：IPX5