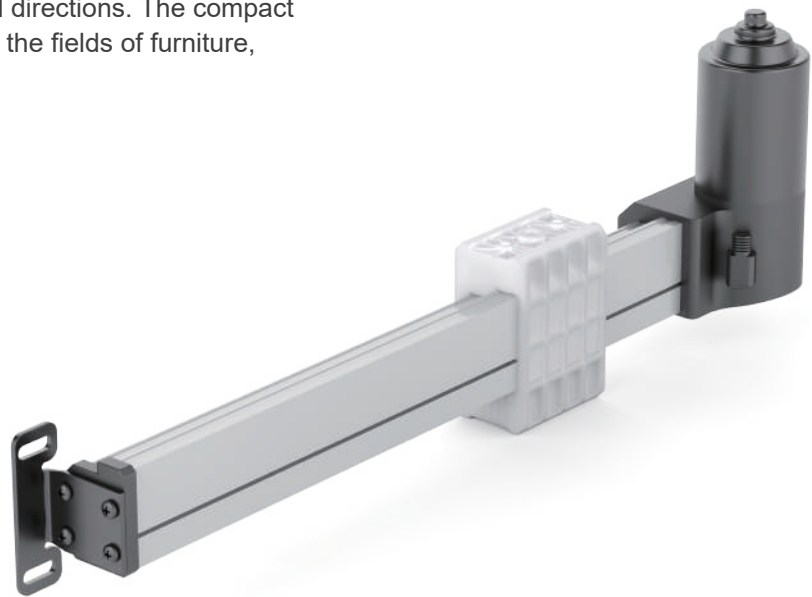


# Actuator

## 01VS62

01VS62 belongs to the design concept of slider-type linear motion, which can obtain a larger stroke with a smaller installation size, and can be applied in both push and pull directions. The compact size design is an ideal driving solution in the fields of furniture, home care and fitness equipment.



### Features and Options

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**Main applications:** Furniture, Home care and Fitness equipment

**Standard features:**

- Input voltage: 24V DC
- Max. load: 3000N (Push / Pull)
- Max. speed at no load: 6.2mm/sec (typical value)
- Speed at full load: 3.8mm/sec (typical value @3000N Loaded)
- Stroke: 100 ~ 1000mm
- Noise level:  $\leq 55$ dB
- IP Level: IP20
- Preset limit switches
- Front end cover has the metal plate for fixing
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Operating ambient temperature: -20°C ~ +65°C

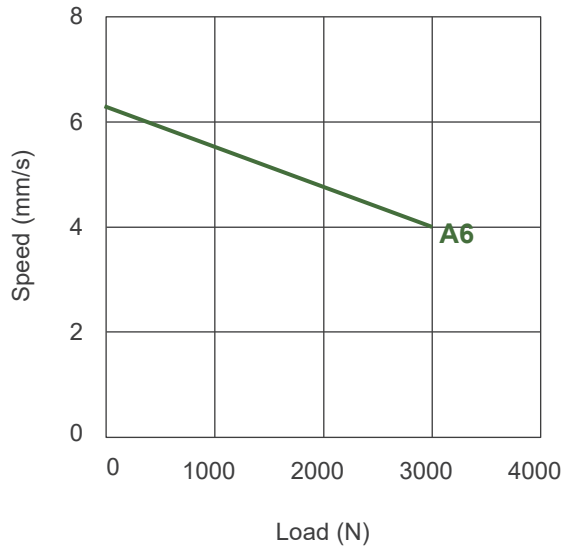
**Options:**

- Positioning signal feedback with Hall effect sensor x 2

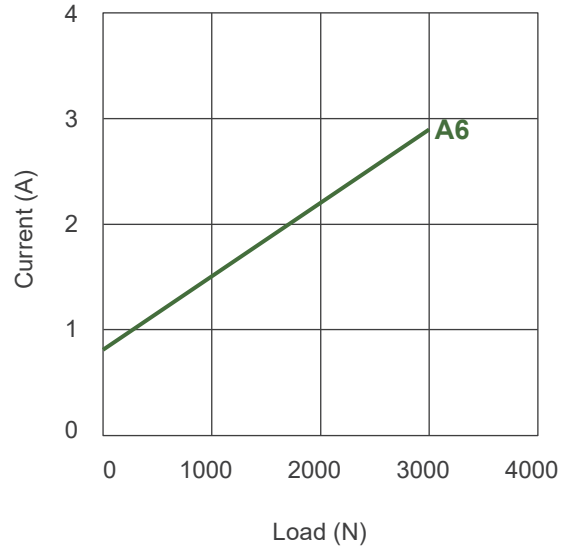
## Performance Data

Model No.	Push Max. (N)	Pull Max. (N)	Typical Speed (mm/s)		Typical Current (A)	
			No Load	Full Load	No Load	Full Load
01VS62-D0-24DA6 ...	3000	3000	6.3	4.0	0.8	2.9

Speed vs. Load



Current vs. Load

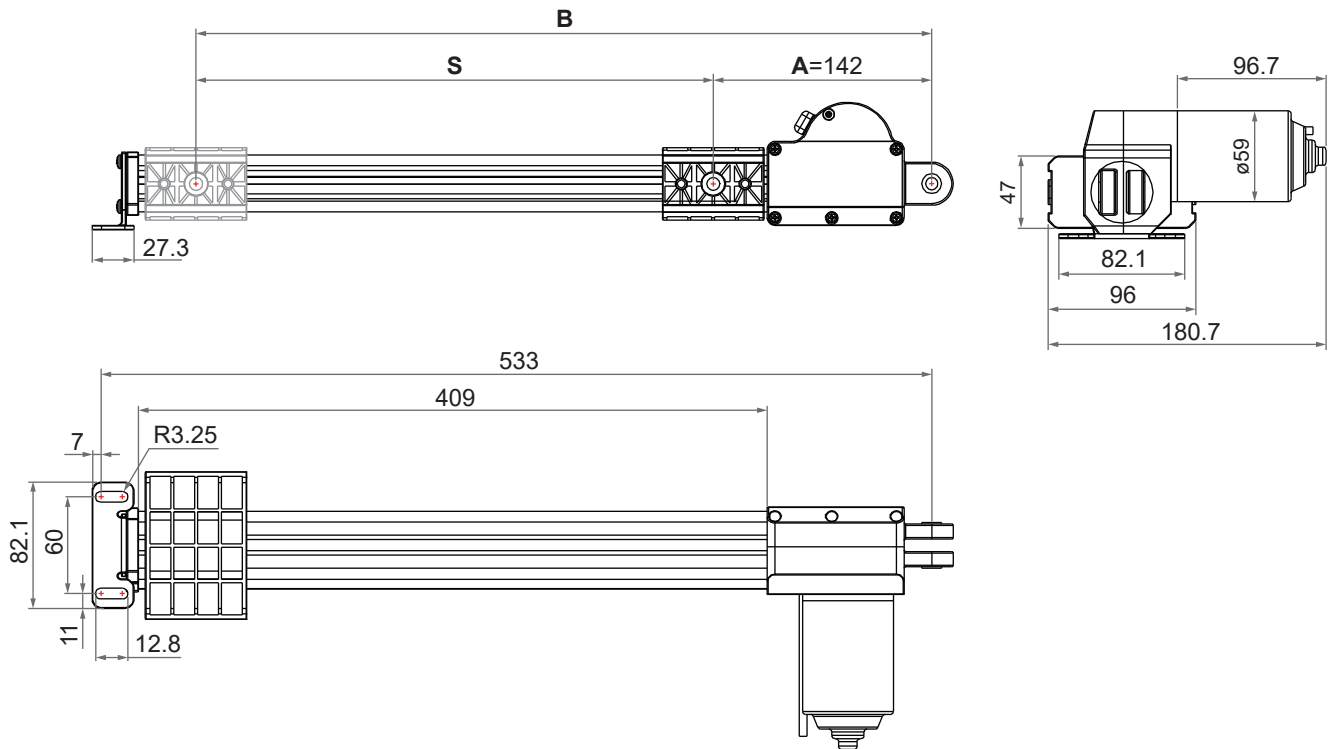


### Remarks:

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

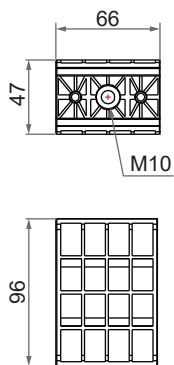
## Dimensions

- Available stroke (S) range = 100 ~ 1000mm
- Extended length (B) = Retracted length (A) + Stroke (S)
- Retracted length (A) = 142mm Min. (±3mm)
- Drawing



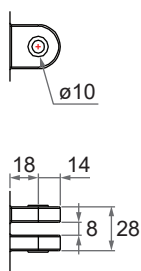
### • Front connector

D: D-type plastic slider block



### • Rear connector

0: Plastic



Unit: mm

## Compatibility

Product	Model	01VS62 spec
<b>Control box</b>	T-control, 01XA1, 01XA2, 01XV3R, 01XV4N, 01XVR2	<ul style="list-style-type: none"> <li>• Without positioning feedback</li> <li>• With F-type 4-pin DIN plug</li> </ul>
	01XD11G, 01XD12G	<ul style="list-style-type: none"> <li>• Without positioning feedback</li> <li>• With L3-type minifit 6-pin plug</li> </ul>
	01XV3R-AT, 01XV4N-A, 01XV4N-V	<ul style="list-style-type: none"> <li>• With dual Hall effect sensors for positioning</li> <li>• With F-type 6-pin DIN plug</li> </ul>
	01XD11A, 01XD12A	<ul style="list-style-type: none"> <li>• With dual Hall effect sensors for positioning</li> <li>• With L3-type minifit 6-pin plug</li> </ul>
<b>Hand control</b>	Depend on control box	<ul style="list-style-type: none"> <li>• Powered by control box</li> </ul>
	01G3V, 01GL01	<ul style="list-style-type: none"> <li>• With Direct-Cut cable 01RK1*</li> </ul>
	01G2F, 01GV, 01ROAF 01GA02, 01GL02, 01GL03, 01GL04, 01GL05, 01GL06	<ul style="list-style-type: none"> <li>• With Direct-Cut cable 01SK1*</li> </ul>
<b>Accessory</b>	Switching mode power supply: 01TSW1, 01TSW4	<ul style="list-style-type: none"> <li>• With Direct-Cut cable 01SK1 or 01RK1</li> </ul>

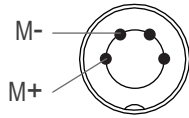
### Remarks:

\* Connect Direct-Cut cable to DC power supply and hand control directly, no control box.

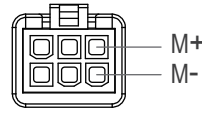
## Cable Plug

### A. With F-type or L3-type plug (Required to be connected to the control box):

- Without positioning feedback



F-type 4-pin DIN plug

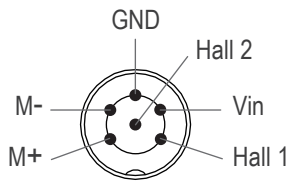


L3-type Minifit 6-pin plug

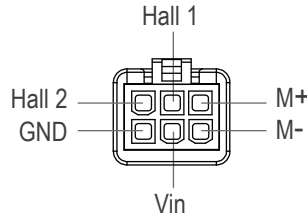


F-type

- Positioning feedback with dual Hall effect sensors



F-type 6-pin DIN plug



L3-type Minifit 6-pin plug



L3-type

### Note: Pin definition

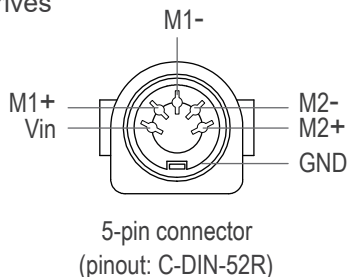
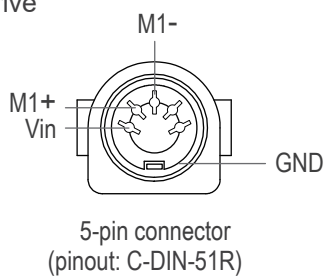
	Definition	Comments
Power	M+	Connect M+ to "Vdc +" & M- to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.
	M-	
Signal	GND	
	Vin	Voltage input range (Vin): 3.5 ~ 20V
	Hall 1	Hall effect sensor resolution: 6.667 pulses/mm Output voltage of signal (DATA) = Vin Hall signal data:
	Hall 2	

Actuator extends

Actuator retracts

**B. With Direct-Cut cable 01SK1 or 01RK1 (NOT required to be connected to any control box):**

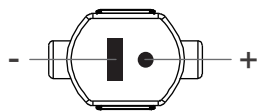
- Hand control connector: with U-type female connector
  - 1 drive
  - 2 drives



U-type

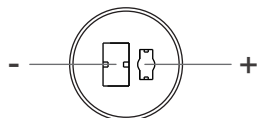
**Note:** Connect M+ to "Vdc +" & M- to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it. Definition of the M2 actuator is the same.

- Power plug: with S-type DIN 41529 male plug



S-type

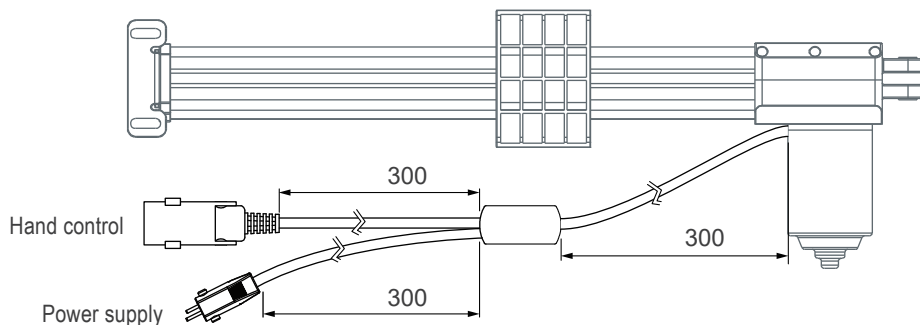
- Connector for 2nd actuator: with R-type DIN 41529 female connector (for 01RK1 only)



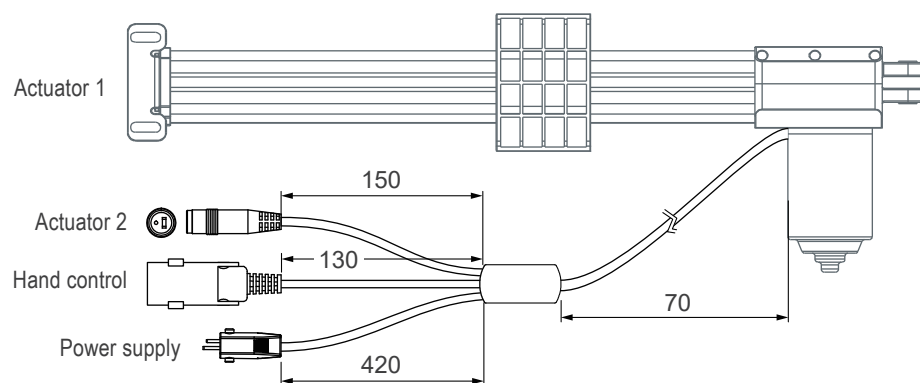
R-type

- Cable length

With Direct-Cut cable 01SK1



- With Direct-Cut cable 01RK1



Unit: mm

## Ordering Key

01VS62 - D 0 - 24 D A6 - 157 . 0612 - H 0 R 0

<b>Front connector</b>	<b>D:</b> D-type plastic slider block <i>(Refer to Page 3)</i>
<b>Rear connector</b>	<b>0:</b> Plastic <i>(Refer to Page 3)</i>
<b>Input voltage</b>	<b>24:</b> 24V DC
<b>Motor</b>	<b>D:</b> Default motor
<b>Motor and spindle type</b>	<b>A6:</b> 2500rpm / 6mm pitch <i>(Refer to Page 2)</i>
<b>Retracted length</b>	<b>XXX</b> <i>(Refer to Page 3)</i>
<b>Extended length</b>	<b>XXXX</b> <i>(Refer to Page 3)</i>
<b>Positioning feedback</b>	<b>0:</b> None <b>H:</b> Dual hall effect sensors
<b>Reserved</b>	<b>0:</b> No meaning
<b>Location of cable outlet</b>	<b>R:</b> Rear end <i>(Refer to Page 3)</i>
<b>Cable</b>	<b>0:</b> 300mm straight <b>1:</b> 1000mm straight <b>2:</b> 450mm with 300mm coiled <b>A:</b> Dedicated cable 01SK1, without control box <i>(Refer to Page 6)</i> <b>B:</b> Dedicated cable 01RK1, without control box <i>(Refer to Page 6)</i>