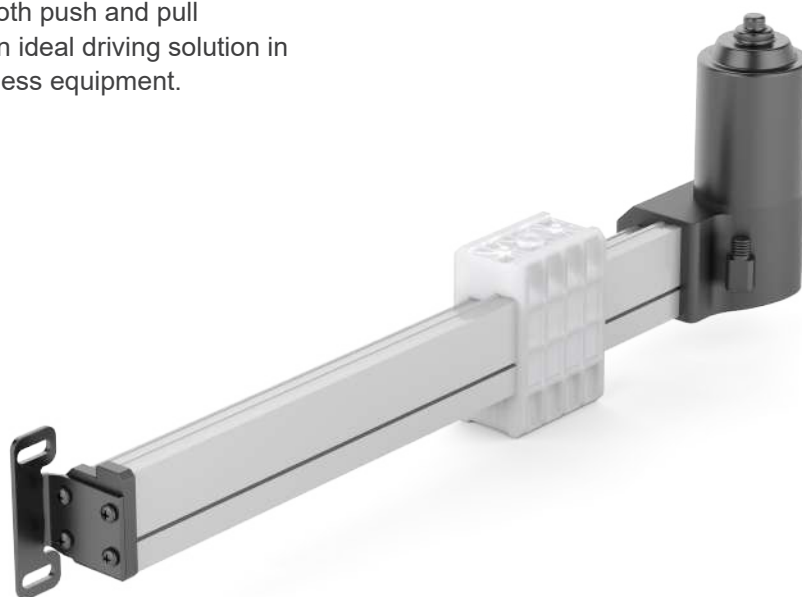


Product Data Sheet

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

Main applications: Furniture, Home care and Fitness equipment

Standard features:

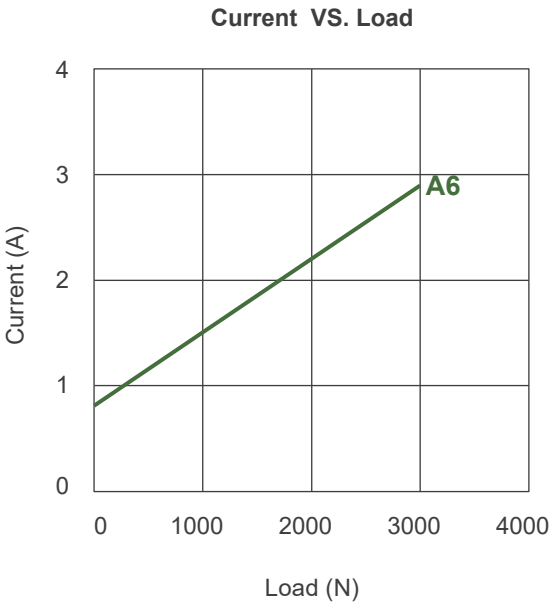
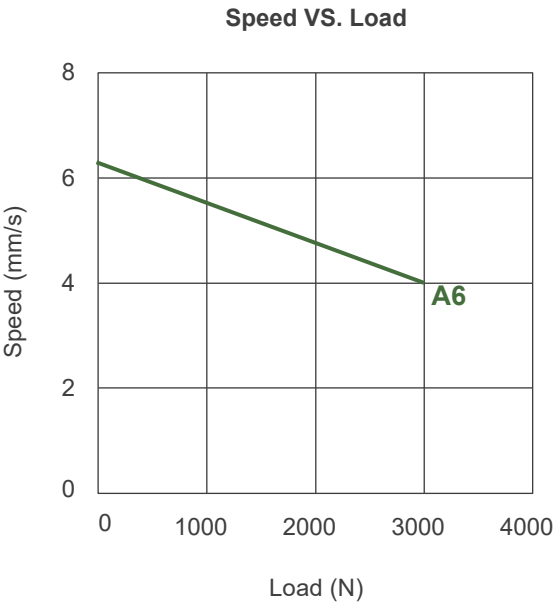
- Input voltage: 24V DC
- Max. load: 3000N (Push / Pull)
- Max. speed at no load: 6.2mm/sec (Typical value)
- Speed at full load: 3.8mm/sec (Typical value @3000N loaded)
- Stroke: 100 ~ 1000mm
- Noise level: ≤ 55 dB
- Preset limit switches
- Front end cover has the metal plate for fixing
- Duty cycle: 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.	Max. load (N)	Self-locking ability (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



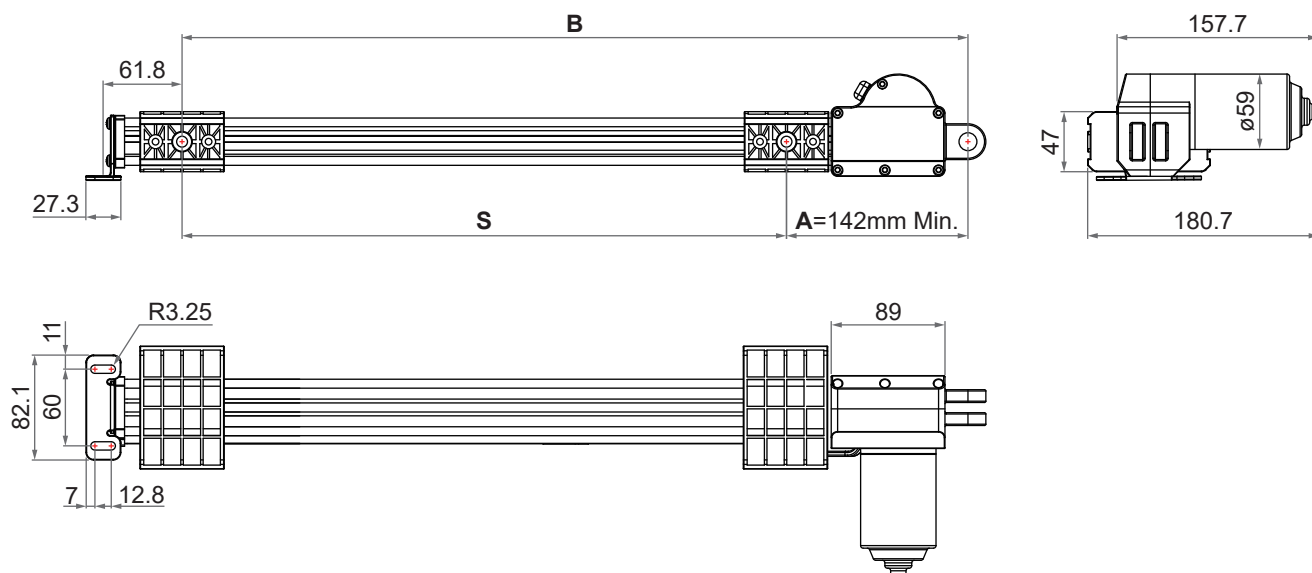
Remarks:

- * The self-locking ability is performed by short circuit the motor terminals when the actuator is powered off. All compatible control boxes are designed with this feature. Mechanical brake in push direction is available upon request, to further enhance the self-locking ability to maximum load.
- ** 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

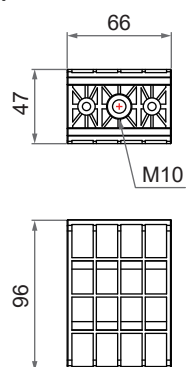
- Available stroke (S) range = 100 ~ 1000mm
- Extended length (B) = Retracted length (A) + Stroke (S)
- Retracted length (A) = 142mm Min. (±3mm)

- Drawing



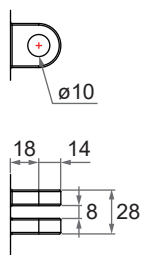
- Front connector

D: D-type plastic slider block



- Rear connector

0: Plastic



Unit: mm

Compatibility

Product	Model	01VS62 spec
Control box	01R-control, 01XA1, 01XA2, 01XV3R, 01XV4N, 01XVR2	<ul style="list-style-type: none"> • Without positioning sensor • With F-type 4-pin DIN plug
	01XD11G, 01XD12G	<ul style="list-style-type: none"> • Without positioning sensor • With L3-type minifit 6-pin plug
	01XV3R-SY, 01XV4N-S, 01XV4N-B	<ul style="list-style-type: none"> • With dual Hall effect sensors for positioning • With F-type 6-pin DIN plug
	01XD11A, 01XD12A	<ul style="list-style-type: none"> • With dual Hall effect sensors for positioning • With L3-type minifit 6-pin plug
Hand control	Depend on control box	<ul style="list-style-type: none"> • Powered by control box
	01GA15	<ul style="list-style-type: none"> • With S-type DIN 41529 male plug ⁽¹⁾
	01GV, 01TOKA, 01GA02, 01GM02, 01GM03, 01GM04, 01GM05, 01GM06	<ul style="list-style-type: none"> • With 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	<ul style="list-style-type: none"> • With direct-cut power cable DL1


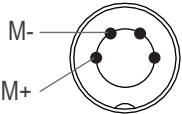
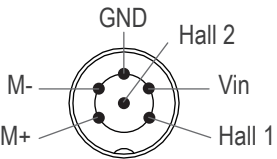

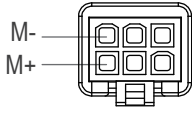
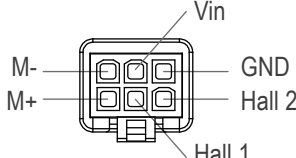


Remarks:

(1) The S-type DIN 41529 plug of the actuator is connected to the 01GA15 hand control directly, no control box.

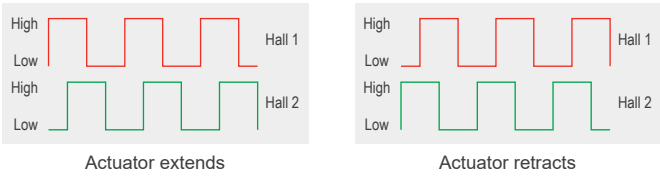
(2) The actuator is connected to the hand control through the DL1 cable directly, no control box.

Cable Plug

A. Connecting control devices that provide power

	Without positioning feedback	Positioning feedback with dual Hall effect sensors
 F-type DIN male plug	 4p2c	 6p6c
 L3-type Minifit male plug	 6p2c	 6p6c
 S-type DIN 41529 male plug	 2p2c	N/A

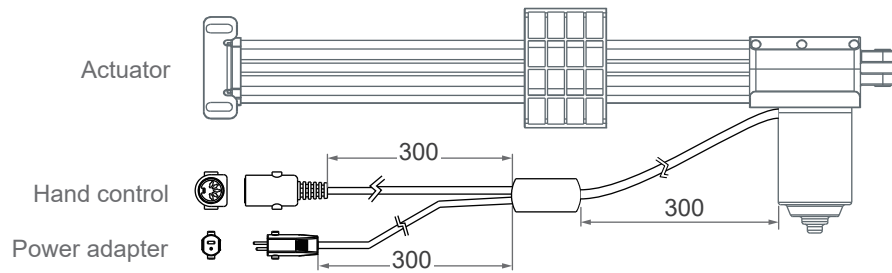
Note: Pin definition

	Definition	Descriptions
Power	M+	Connect M+ to “Vdc +” & M- to “Vdc -“ of DC power to extend the actuators. Switch the polarity of DC input to retract it.
	M-	
Signal	Vin	Voltage input range: 5 ~ 20V
	Hall 1 output	<div>High= Input - 1.2V (±0.6V) Low= GND Hall signal data:</div> <div> Hall effect sensor resolution: 6.667 pulses/mm</div>
	Hall 2 output	
	GND	

B. Connecting control devices that DO NOT provide power

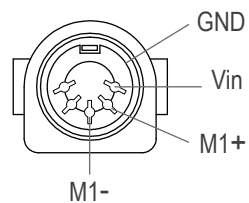
1. Cable solution

- With direct-cut power cable DL1



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

- 1 drive

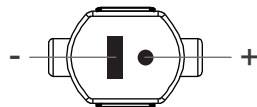


Note: Connect M1+ to "Vdc +" & M1- to "Vdc -" of DC power to extend the M1 actuator. Switch the polarity of DC input to retract it.



U-type female connector

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



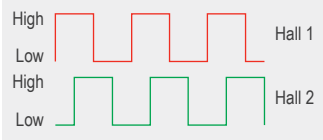
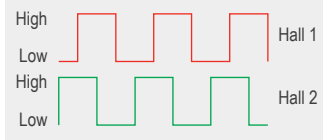
S-type male plug

Cable with Flying Leads

- Basic, without positioning feedback.

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

- With dual Hall effect sensors for positioning

	Wire color	Definitions	Descriptions
Power wires	Blue	DC Power	Connect blue wire to "Vdc +" & brown wire to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.
	Brown		
Signal wires	Yellow	Vin	Voltage input range: 5 ~ 20V
	Red	Hall 1 output	High= Input - 1.2V ($\pm 0.6V$) Low= GND Hall signal data: <div>   </div>
	Green	Hall 2 output	
	Black	GND	Hall effect sensor resolution: 6.667 pulses/mm

Ordering Key

01VS62 - D 0 - 24 D A6 - 157 . 0612 - H 0 R 0	
Front connector (Refer to Page 3)	D: D-type plastic slider block
Rear connector (Refer to Page 3)	0: Plastic
Input voltage	24: 24V DC
Motor	D: Default motor
Motor and spindle type	A6: 2500rpm / 6mm pitch
Retracted length (Refer to Page 3)	XXX
Extended length (Refer to Page 3)	XXXX
Positioning feedback	0: None H: Dual Hall effect sensors
Reserved	0
Location of cable outlet (Refer to Page 6)	R: Rear end
Cable	0: 300mm straight 1: 1000mm straight 2: 450mm with 300mm coiled A: Direct-cut power cable DL1 (Refer to Page 6)