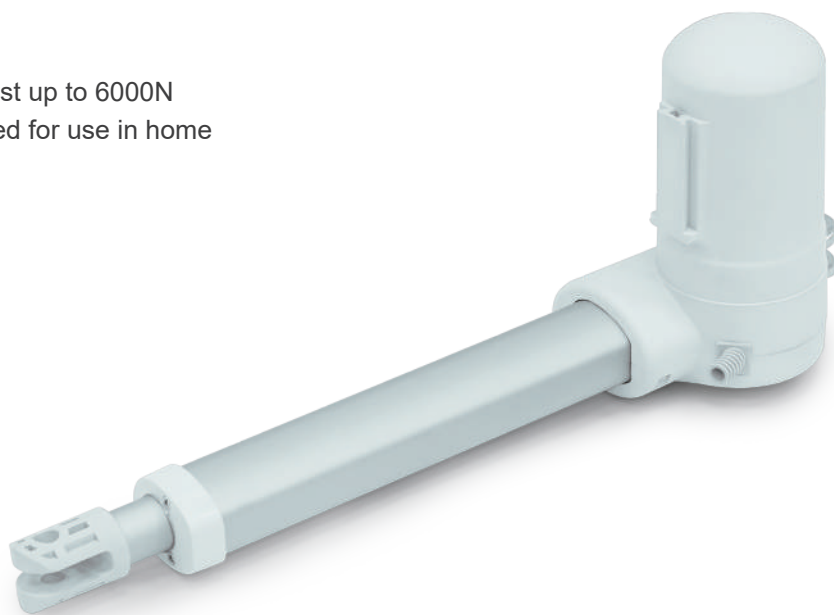


Product Data Sheet

Actuator 01NS62

01NS62 is a compact actuator with thrust up to 6000N and protection level up to IPX6, designed for use in home care and medical applications.



Features

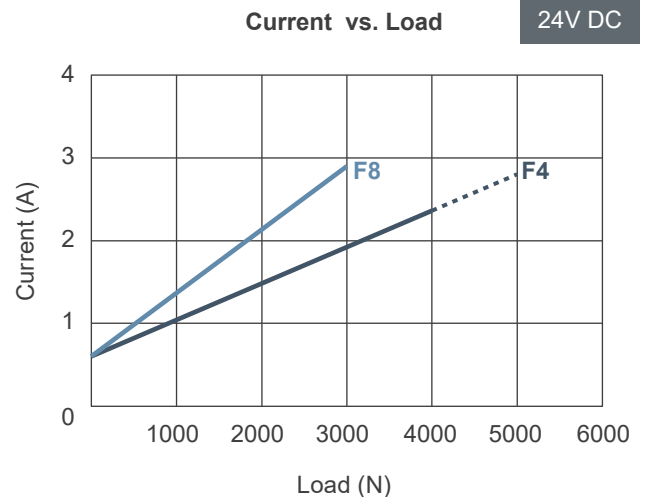
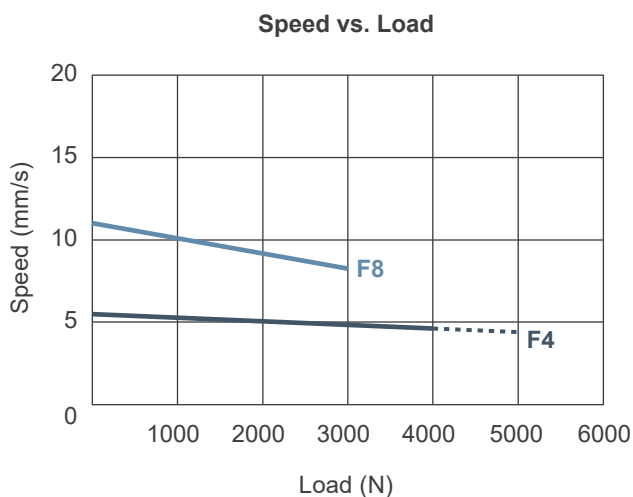
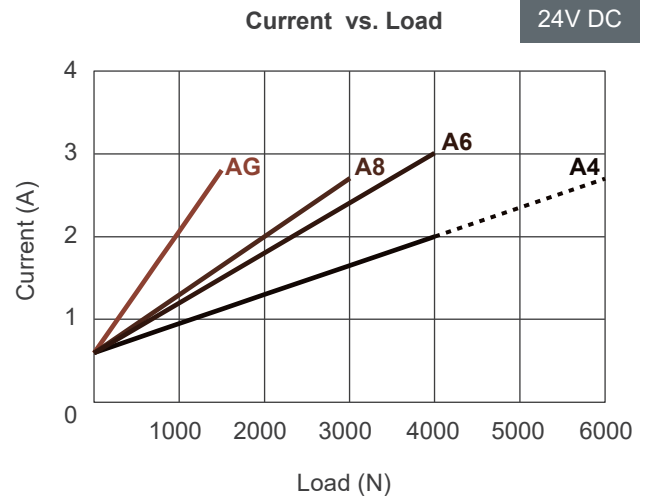
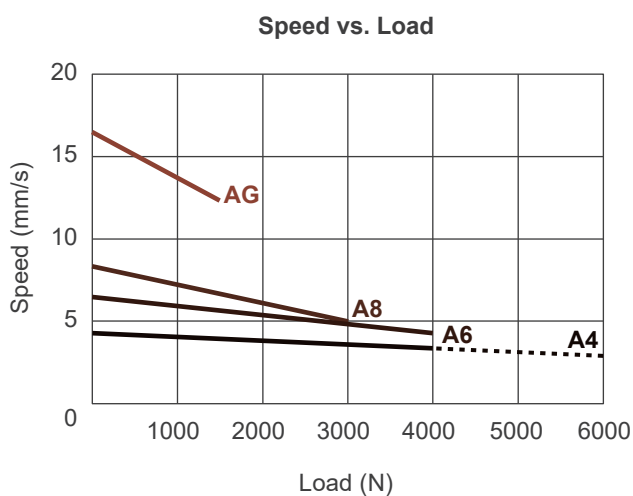
- Main applications: Homecare, medical
- Input voltage: 24V DC
- Max. load: 6000N (push) / 4000N (pull)
- Typical speed at no load: 16.6 mm/sec
- Typical speed at full load: 2.9 mm/sec (6000N load)
- Stroke: 50 ~ 300 mm
- Noise level: ≤ 50 dB
- IP Protection level: IPX4, IPX6
- Rear connector's pivot orientation 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
- Compliant with CE Marking, MDD Directive 93/42/EEC

Options

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

Performance Data

Model No.	Push Max. (N)	Pull Max. (N)	Self-locking ability (N)	**Typical speed (mm/s)		**Typical current (A)	
				No load	Full load	No load	Full load
01NS62-24-A4	6000	4000	5000	4.2	2.9	0.6	2.7
01NS62-24-A6	4000	4000	2500	6.2	3.8	0.6	3.0
01NS62-24-A8	3000	3000	2000	8.3	5.0	0.6	2.7
01NS62-24-AG	1500	1500	700	16.6	12.2	0.6	2.8
01NS62-24-F4	5000	4000	5000	5.5	4.4	0.6	2.8
01NS62-24-F8	3000	3000	2000	11.0	8.2	0.6	2.9



Push / Pull Load — Push Load - - -

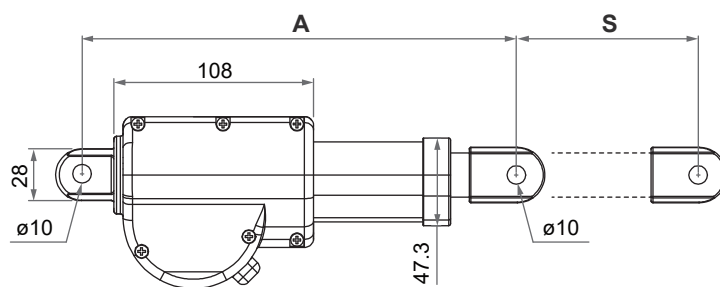
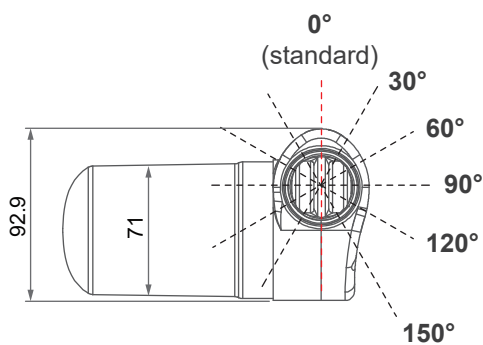
Remarks:

* 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.

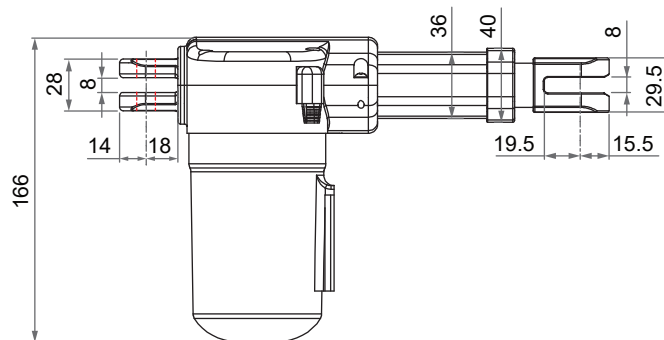
** The typical speed or typical current means the average value neither upper limit nor lower limit. The performance curves are made with typical values.

Dimensions

Pivot orientation of rear connectors



Note: As an example in 0° orientation.



Installation Dimension

• Retracted length (A)

Front connector code	3, 7	1, 8
Standard	$A \geq S + 160\text{mm} (\pm 3\text{mm})$	$A \geq S + 188\text{mm} (\pm 3\text{mm})$
With Safety nut (SN)	$A \geq S + 168\text{mm} (\pm 3\text{mm})$	$A \geq S + 196\text{mm} (\pm 3\text{mm})$

Available stroke (S) range = 50 ~ 400 mm

Extended length = S + A

• Front connector

1: Plastic

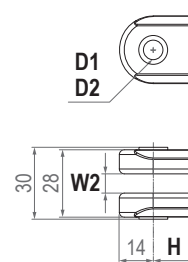
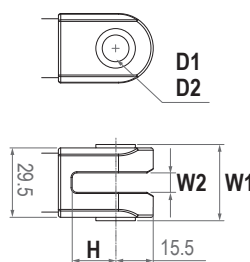
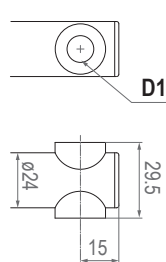
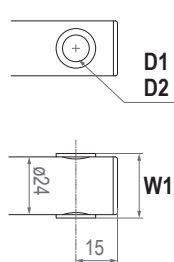
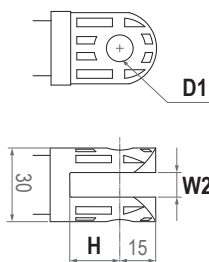
3: Drilled hole

7: Drilled hole with nylon bushing

8: Aluminum alloy clevis

• Rear connector

1: Aluminum alloy clevis



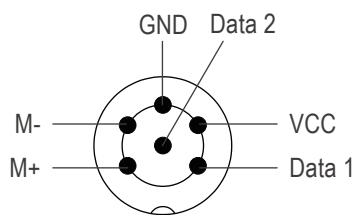
Front connector code	Diameter of pivot without bushing (D1)	Diameter of pivot with bushing (D2)	Width with bushing (W1)	Slot width (W2)	Slot depth (H)
1	ø8, ø10, ø12	N/A	N/A	10	20
3	ø8, ø10, ø12, ø14	ø8, ø10	26	N/A	N/A
7	ø10	N/A	N/A	N/A	N/A
8	ø10, ø12	ø8, ø10	31.5	8	19.5
Rear connector code	Diameter of pivot without bushing (D1)	Diameter of pivot with bushing (D2)	Width with bushing (W1)	Slot width (W2)	Slot depth (H)
1	ø10, ø12	ø8, ø10	30	8	18

Compatibility

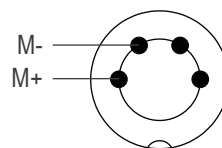
Product	Model	Application condition	01NS62 spec
Control box	01XV2O, 01XV4O, 01NS7X	- Max. 3A current per channel	- Without positioning sensor feedback - 4-pin H-type or V-type DIN plug
	01NS6X, 01NS6X-N	- Max. 5A current per channel	- Without positioning sensor feedback - 4-pin H-type or V-type DIN plug
	01XV4O-AT (Synchronization)	- Max. 4.5A current 2 channels	- With dual Hall effect sensors - 6-pin H-type or V-type DIN plug
	01NS6X-N	- Max. 5A current per channel	- With dual Hall effect sensors - 6-pin H-type or V-type DIN plug
	01XV5O-N	- Max. 3.5A current per channel	- With dual Hall effect sensors - 6-pin L2-type minifit plug

Cable Plug

H-type or V-type DIN plug



With dual Hall effect sensors



Without positioning sensor feedback



H-type

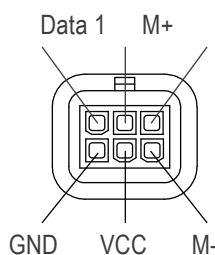


V-type



L2-type

L2-type minifit 6-pin, 90° plug Data 2



With dual Hall effect sensors

Note:

1. Connect Pin (M+) to "+" & Pin (M-) to "-" of DC power, the actuator will extend.
2. Hall effect sensor resolution:

Model No.	Resolution (pulses/mm)
01NS62-24-A4-XXX.XXX-CX1-X-H-X-X-X-X	10.0
01NS62-24-A6-XXX.XXX-CX1-X-H-X-X-X-X	6.67
01NS62-24-A8-XXX.XXX-CX1-X-H-X-X-X-X	5.0
01NS62-24-AG-XXX.XXX-CX1-X-H-X-X-X-X	2.5
01NS62-24-F4-XXX.XXX-CX1-X-H-X-X-X-X	10.0
01NS62-24-F8-XXX.XXX-CX1-X-H-X-X-X-X	5.0

Ordering Key

01NS62 - 24 - A6 - 330 - 460 - 1 1 0 H 0 0 4 0

Input voltage	24: 24V DC
Motor and Spindle type	A4: 2500rpm / 4mm pitch A6: 2500rpm / 6mm pitch A8: 2500rpm / 8mm pitch AG: 2500rpm / 16mm pitch F4: 3300rpm / 4mm pitch F6: 3300rpm / 6mm pitch (Refer to Performance Data)
Retracted length	XXX (Refer to Dimensions)
Extended length	XXX (Refer to Dimensions)
Front connector	1: Plastic 3: Drilled hole 7: Drilled hole with nylon bushing 8: Aluminum alloy clevis (Refer to Dimensions)
Rear connector	1: Aluminum alloy clevis (Refer to Dimensions)
Pivot orientation of rear connector	0: 0° (standard) 3: 30° 6: 60° 9: 90° C: 120° F: 150°
Positioning feedback	0: None H: Hall effect sensor x 2
Safety	0: None S: Safety nut P: Push only A: Push only + Safety nut
Mechanical brake	0: None B: Mechanical brake
IP Protection level	4: IPX4 (standard) 6: IPX6
Cable length	0: 300 mm straight 1: 1000 mm straight A: 400 mm with 300 mm coiled

Certifications

The 01NS62 actuator is compliant with the following regulations, in terms of the essential conformity requirements of MDD Directive of 93/42/EEC.

Emission	Immunity
EN 60601-1-2:2015 CISPR11:2015 Group 1 Class B	EN 60601-1-2:2015 IEC 61000-4-2:2008 IEC 61000-4-3:2006+A1:2007+A2:2100 IEC 61000-4-8:2009