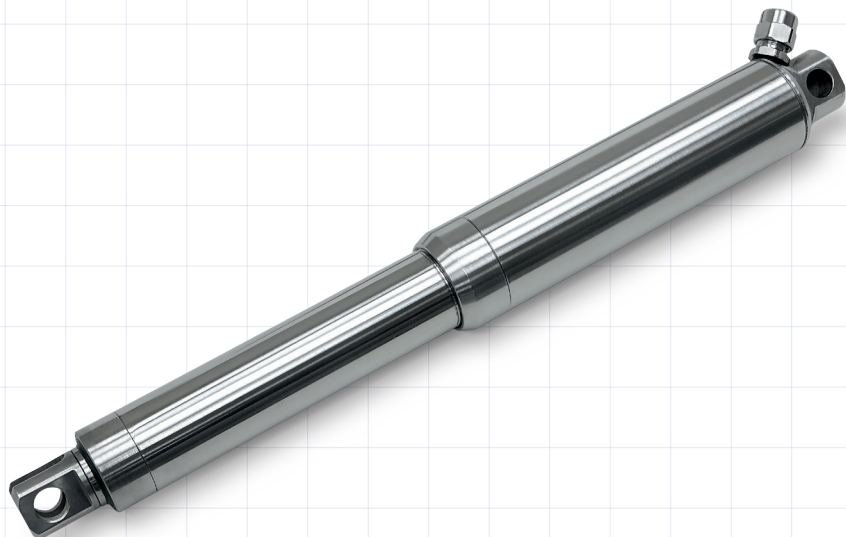


Electric actuator VLD12

Typical areas of application

- Industrial motion
- Food engineering
- Naval architecture



The VLD12 is a compact, small-sized linear actuator designed specifically for applications with limited space.

In addition to the high IP protection level, all parts are made of stainless steel 1.4301. This linear actuator is extremely corrosion resistant and therefore e.g. suitable for applications in the food industry or maritime technology.

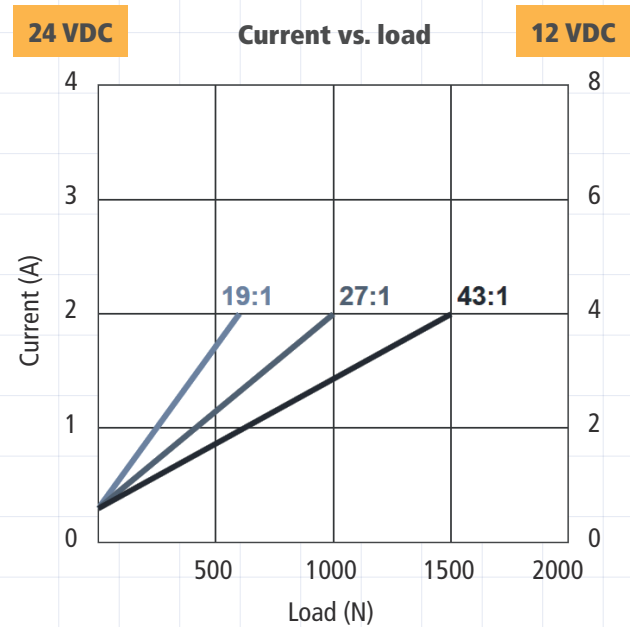
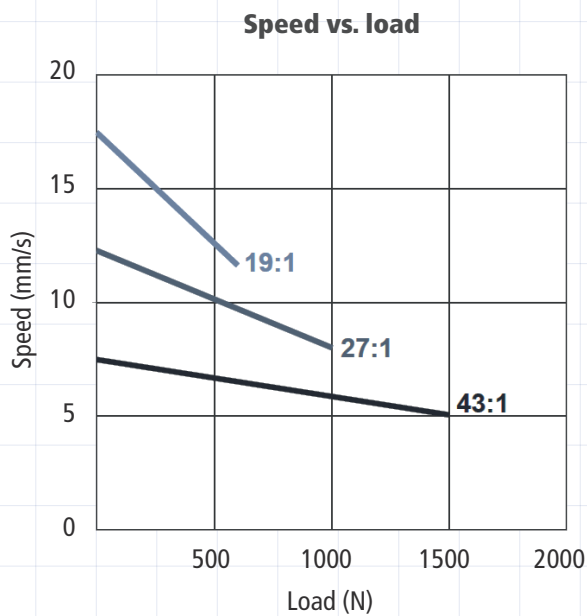
Key figures

- | | |
|---------------------------------|----------------------------------------------------|
| • Voltage of motor | 12 V DC or 24 V DC |
| • Max. load | 1500 N in push / 1500 N in pull |
| • Max. speed at no load | 17.4 mm/s |
| • Max. speed at full load | 5.0 mm/s (with 1500 N in a push or pull condition) |
| • Stroke | 50 ~ 400 mm |
| • Min. installation dimension | stroke+187 mm |
| • IP rating | IP66, IP69K |
| • Material | stainless steel 1.4301 |
| • Duty cycle | 10 %, max. 2 min. continuous operation in 20 min. |
| • Standards, directives | CE Marking, EMC Directive 2014/30/EU |
| • Operational temperature range | -20 °C ~ +70 °C |
| • Option | without Hall sensor |

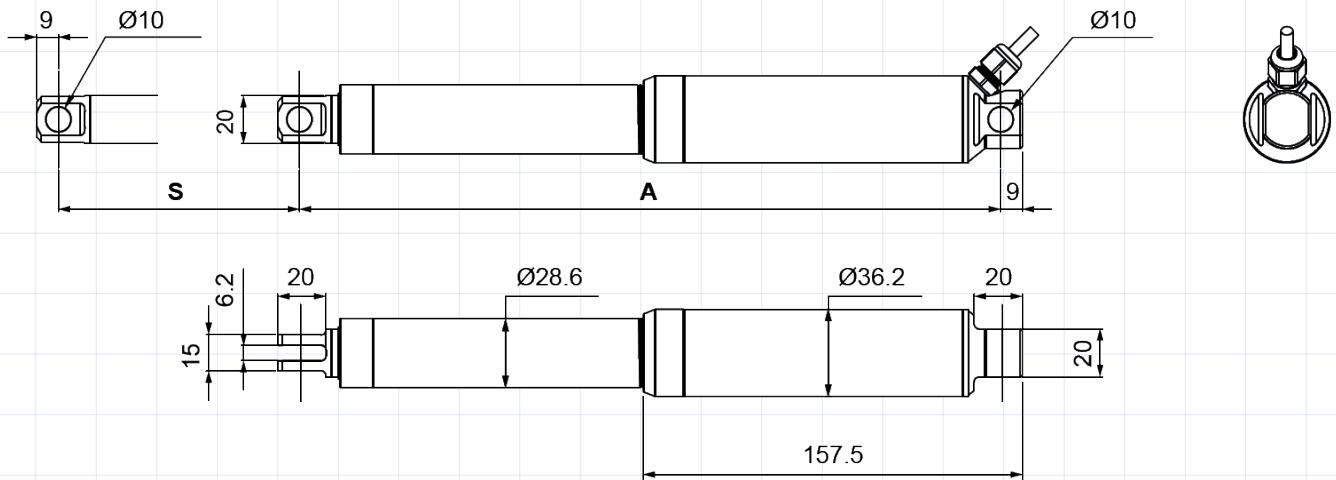
Extremely corrosion resistant.

Load and speed

| Model no. | Gear ratio | Push / pull max. load (N) | Speed (mm/s) | | Current (A) | | | |
|-----------------------------------|------------|---------------------------|--------------|-----------|-------------|------|-----------|------|
| | | | No load | Full load | No load | | Full load | |
| | | | | | 12 V | 24 V | 12 V | 24 V |
| VLD12-XX 19 -XXX.XXX-000XX | 19:1 | 600 | 17.4 | 11.7 | 0.6 | 0.3 | 4.0 | 2.0 |
| VLD12-XX 27 -XXX.XXX-000XX | 27:1 | 1000 | 12.3 | 8.0 | 0.6 | 0.3 | 4.0 | 2.0 |
| VLD12-XX 43 -XXX.XXX-000XX | 43:1 | 1500 | 7.5 | 5.0 | 0.6 | 0.3 | 4.0 | 2.0 |



Dimensions



| Stroke (S) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Retracted length (A) | 237 | 287 | 337 | 387 | 437 | 487 | 537 | 587 |
| Extended length (B) | 287 | 387 | 487 | 587 | 687 | 787 | 887 | 987 |

Available stroke (S) range = 50 ~ 400 mm

Retracted length (A) $\geq S + 187$ mm

Extended length (B): $S + A$

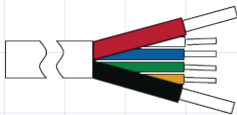
Wire definitions

Basic, without positioning feedback



| Power | |
|-------|-------|
| Red | Black |
| M+ | M- |

With Hall effect sensor x 2



| Power | | Signal | | | |
|-------|-------|--------|--------|--------|--------|
| Red | Black | White | Blue | Green | Yellow |
| M+ | M- | COM | Data 1 | Data 2 | VCC |

| Model no. | Resolution (pulses/mm) |
|-----------------------------------|------------------------|
| VLD12-XX 19 -XXX.XXX-000HX | 9.56 |
| VLD12-XX 27 -XXX.XXX-000HX | 13.50 |
| VLD12-XX 43 -XXX.XXX-000HX | 21.45 |

Remarks:

Extend: Red = +, Black = -

Retract: Red = -, Black = +

Attentions

VLD12 is without built-in mechanical limit switches, and is suggested to be used with Hall sensor feedback included. It's important that VLD12 work with a control system that prevents the actuators from constantly hitting its internal end positions, which will reduce the actuator lifespan.

Ordering key (e. g.: VLD12-2419-387.587-000H2)

VLD12-

| | | | |
|--------------------------|------------------------------|----------------------------------------------------|------------------------------------------|
| <input type="checkbox"/> | Voltage | 12 = 12 V | 24 = 24 V |
| <input type="checkbox"/> | | | |
| <input type="checkbox"/> | Gear ratio | 19 = 19:1 (600 N) | 27 = 27:1 (1000 N) 43 = 43:1 (1500 N) |
| <input type="checkbox"/> | | | |
| <input type="checkbox"/> | Retracted length (mm) | see page 3 (refer to dimensions) | |
| <input type="checkbox"/> | | | |
| <input type="checkbox"/> | | | |
| <input type="checkbox"/> | Extended length | see page 3 (refer to dimensions) | |
| <input type="checkbox"/> | | | |
| <input type="checkbox"/> | | | |
| <input type="checkbox"/> | Reserved | 0 = no meaning 0 = no meaning 0 = no meaning | |
| <input type="checkbox"/> | | | |
| <input type="checkbox"/> | Output signals | H = two Hall sensors (default) | 0 = without |
| <input type="checkbox"/> | Cable length | 1 = straight, 1000 mm | 2 = straight, 1500 mm |

Terms of use

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