

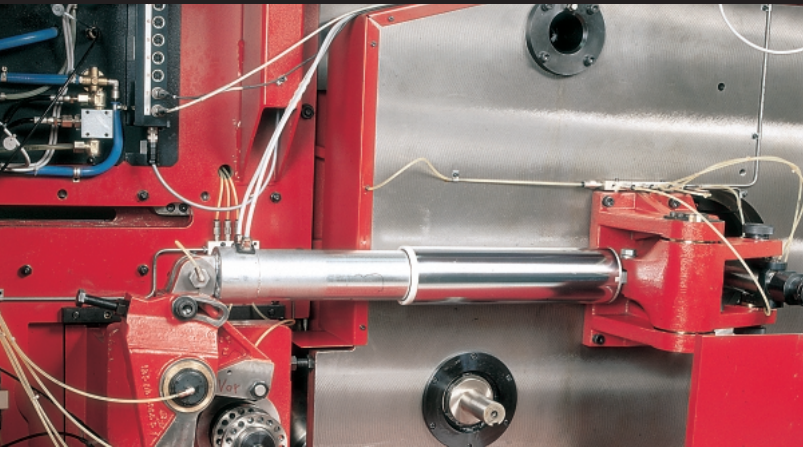
Linear actuator Herkules



*Our robust model
for heavy-duty
applications*



Linear actuators Herkules



Description · Applications · Options

The linear actuators of the Herkules series have the following outstanding features:

- Combination of high pushing/pulling forces and low space requirement
- High static load capacity
- High impact resistance
- Low maintenance lubrication system
- Protection against dirt, dust and other environmental influences
- Suitable for heavy-duty applications

Applications

- Lifting platforms
- Locking devices
- Tilting devices
- Slat adjustment
- Points switching and many other applications.

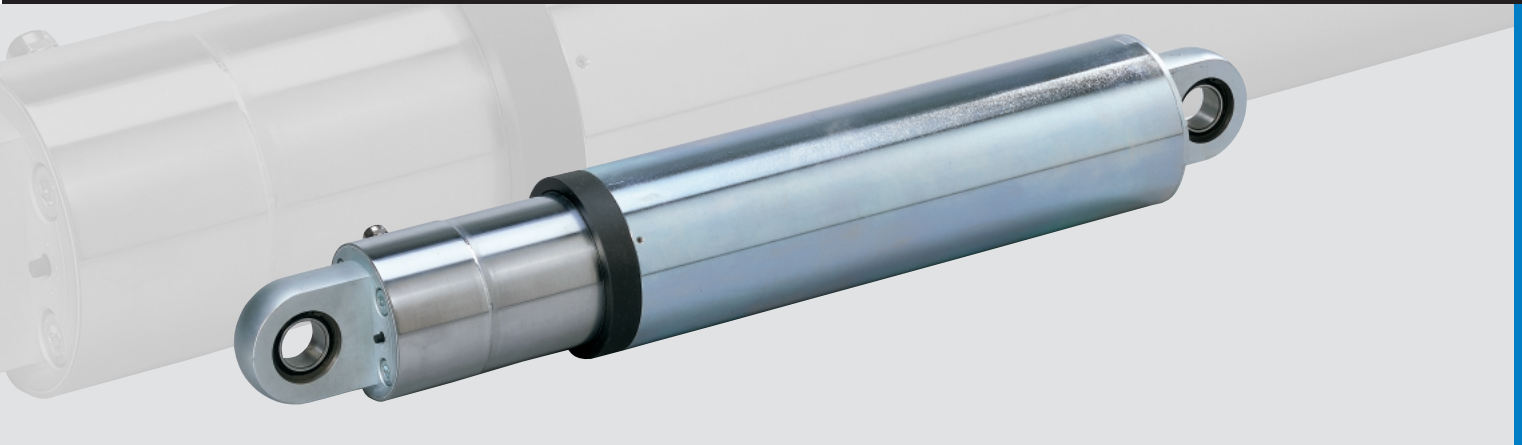
The facts

| | Herkules 01 | Herkules 1 |
|------------------------|--|---------------|
| Load (N) | 14,000–30,000 | 28,000–50,000 |
| Stroke speed (mm/s) | 1–9 | 1–9 |
| Stroke length (mm) | up to 275 | up to 320 |
| Operating voltage | 400 V/3AC, 50 Hz | |
| Temperature range (°C) | –20 to +50 | |
| Double scraper ring | at piston outlet | |
| Limit switch system | adjustable, with status signal | |
| Corrosion protection | thanks to galvanised/chromed housing parts | |
| Protection type | IP 54 | |
| Cable length (m) | 1.5 | |

Options

- Potentiometer for output of a stroke-dependent resistance value instead of limit switches
- Encoder instead of limit switches
- DIN 648 swivel eye GE 25 UK or GE 30 UK on piston and/or housing end
- Special coatings

Other stroke lengths, special voltages, circuit variants, cable types on request.



Load (N) and stroke speeds (mm/s) Herkules 01

| Version | Stroke speed [mm/s] | Pushing/pulling force F [N] | Number of add. planetary gear stages | Nominal current I [A] | cos φ |
|---------|------------------------|--------------------------------|---|--------------------------|------------------|
| A | 9 | 14,000 | – | 2 | 0.8 |
| B | 6 | 20,000 | – | 2 | 0.8 |
| C | 2.5 | 30,000 | 1 | 1.8 | 0.7 |
| D | 1.5 | 30,000 | 1 | 1.5 | 0.7 |
| E | 1 | 30,000 | 1 | 1.5 | 0.6 |

Load (N) and stroke speeds (mm/s) Herkules 1

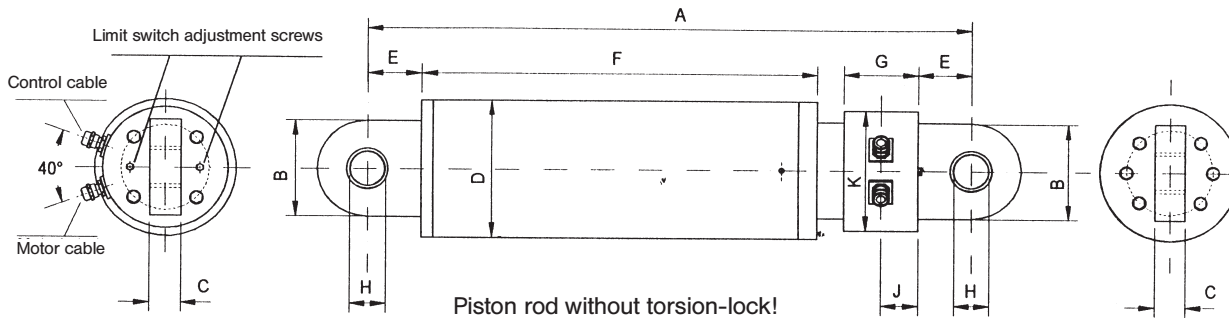
| Version | Stroke speed [mm/s] | Pushing/pulling force F [N] | Number of add. planetary gear stages | Nominal current I [A] | cos φ |
|---------|------------------------|--------------------------------|---|--------------------------|------------------|
| A | 9 | 28,000 | – | 5 | 0.8 |
| B | 6 | 45,000 | – | 5 | 0.8 |
| C | 2.5 | 50,000 | 1 | 4 | 0.7 |
| D | 1.5 | 50,000 | 1 | 3 | 0.7 |
| E | 1 | 50,000 | 1 | 3 | 0.5 |

Note:

All technical data represent average values and are based on an ambient temperature of 20 °C.
Admissible rating: S3 - 15%

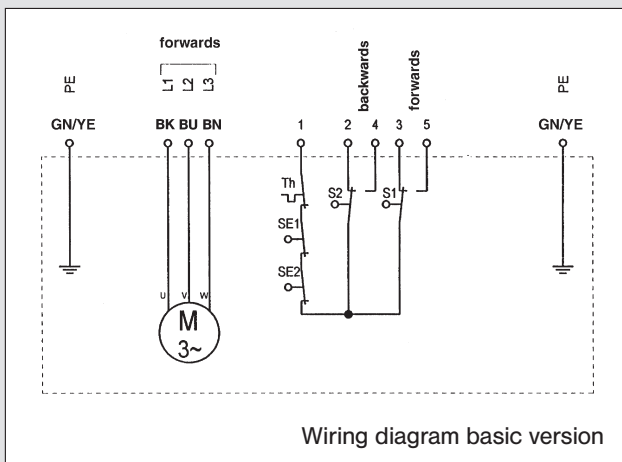
Herkules 01
Herkules 1

Technical data and dimensions



| Version | Max. stroke length | A | | B | C | D | E | F | G | H* | J | K |
|-------------|--------------------|------|------|----|----|-----|----|-----|----|----|----|-----|
| | | min. | max. | | | | | | | | | |
| Herkules 01 | 275 | 590 | 865 | 60 | 25 | 100 | 35 | 412 | 60 | 25 | 42 | 88 |
| Herkules 1 | 320 | 640 | 960 | 80 | 30 | 120 | 46 | 450 | 65 | 30 | 44 | 102 |

* DU bushing; alternatively with swivel eye GE 25 UK or GE 30 UK



- Th = Thermal protection contact
- SE = Safety limit switch
- S1 = Limit switch
Piston rod out
- S2 = Limit switch
Piston rod in

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