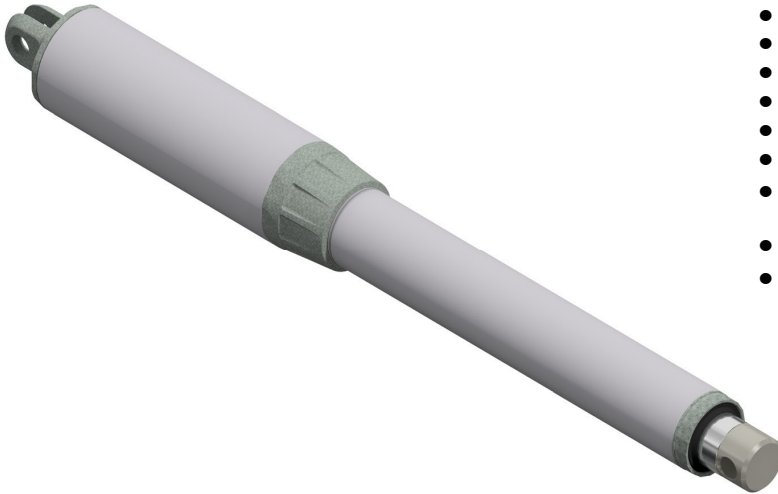


L02

Industrial Linear Actuator



- Permanent magnet DC motor 12-24 V
- Planetary gearbox
- Acme lead screw or ballscrew (VRS)
- Chrome plated steel push rod
- Permanent grease lubrication
- IP 65, tested according to rule CEI EN 60529
- Working temperature range -10°C +60°C
- Intermittent duty (see performance charts) a 30°C, for other solutions contact the MecVel Technical dept.
- Limit switches on request
- Encoder on request

L02 (Vdc)					
Fmax (N)	Speed (mm/s)	Version	Motor size	Gearmotor speed (rpm)	Max Current for Fmax (A) 24Vdc**
750	30	M04	36	500	4
840	20	M05	36	150	2
1600	10	M06	36	150	2,5
2000	5	M07	36	80	2

When speed is more than 40 mm/s and/or strokes longer than 350mm, check stroke setup section.

** for 12 vdc power supply currents are doubled and loads are 20% lower.

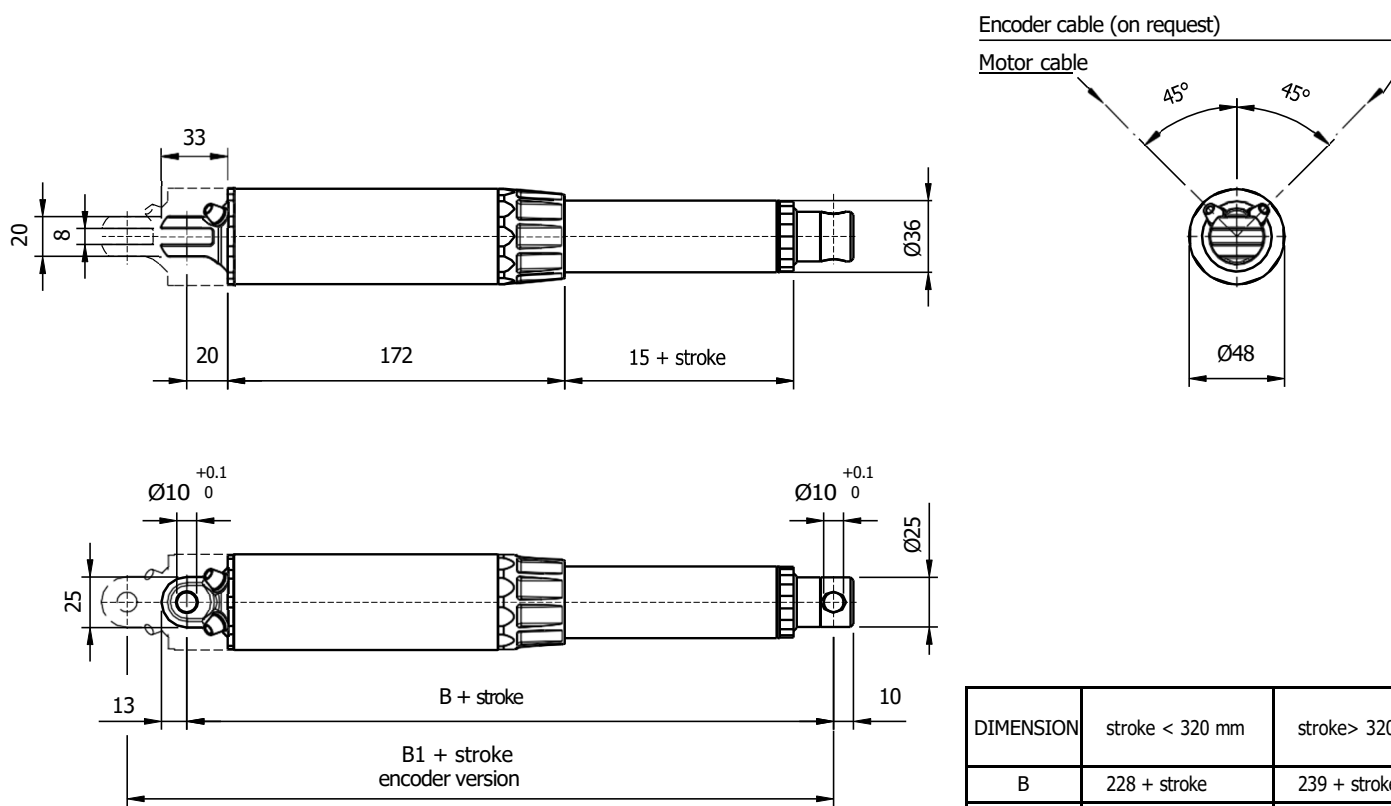
Actuators shall not come to mechanical stroke-end, to avoid failures.

Before operating an actuator make sure you read and understand basic operational instructions shown on user manuals, available from our sales office.

This document displays most typical standard features and setups.

Actuators must not come to a mechanical stroke-end / mechanical lock to avoid failures.
Consider limit switches (model L02-f or L02-FCM) or put them on a machine / frame.

VERSION WITHOUT LIMIT SWITCH

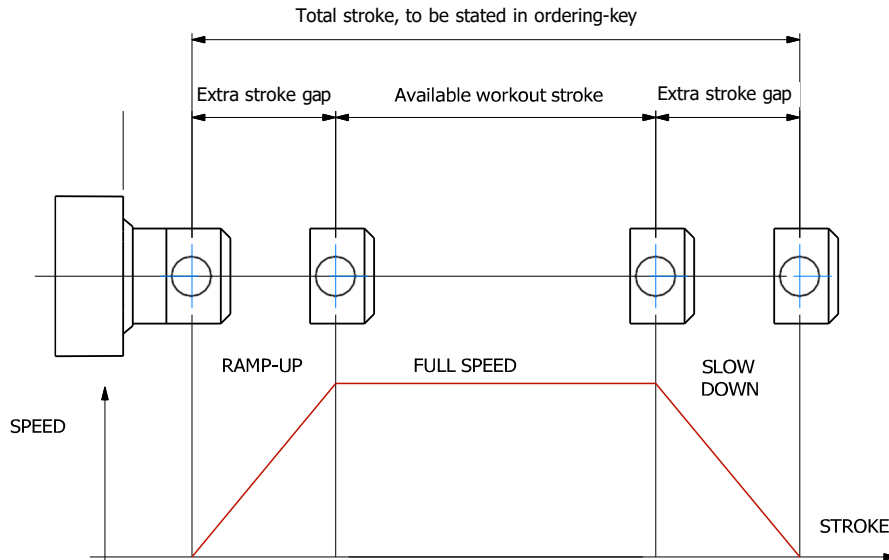


DIMENSION	stroke < 320 mm	stroke > 320 mm
B	228 + stroke	239 + stroke
B1	257 + stroke	268 + stroke

STROKE SETUP

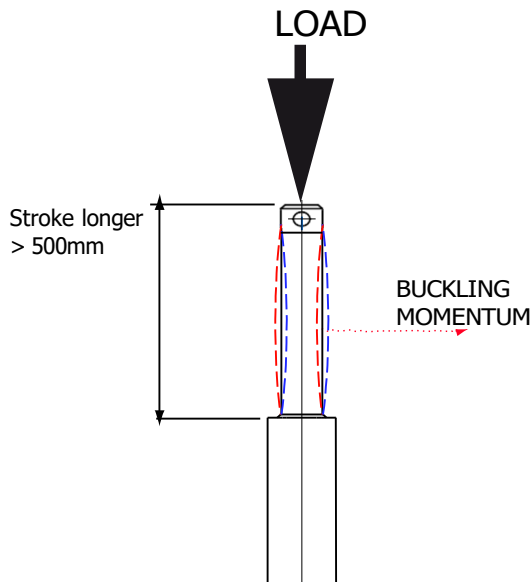
Useful tips for handling stroke length and avoiding run-on-block collision.

- When stroke is more than 350 mm, add 50 mm extra-stroke as guidance, and put corresponding value in ordering-key.
- **WARNING SPEED-TIMING ALONG STROKE LENGTH:** ramps are extremely important when speed is 30 mm/s! Inverter or PWM drive recommended!
- The higher the speed, the more safety stroke is required.



BUCKLING

When stroke is longer than 500mm, BUCKLING can be a risk: please check mounting with our offices and/or see user manuals.



IMPORTANT:

Long strokes, even if the load is low, can generate significant buckling momentum, as sketch shows.

This happens when the actuator is in its all-open position. Therefore, we recommend 100mm extra non-usable stroke to act as bushing. Push tube will have this 100 mm-portion always inside the outer tube, improving guidance against buckling

ORDERING KEY EXAMPLE

L02/0250/M07/24/E10/2FCM0/P1/A1/

MODEL L02 L02-FCM

STROKE es. 250 mm = 0250

VERSION M04 / M05 / M06 / M07
M00 = Not standard speed

MOTOR 12 = 12 Vdc 24 = 24 Vdc

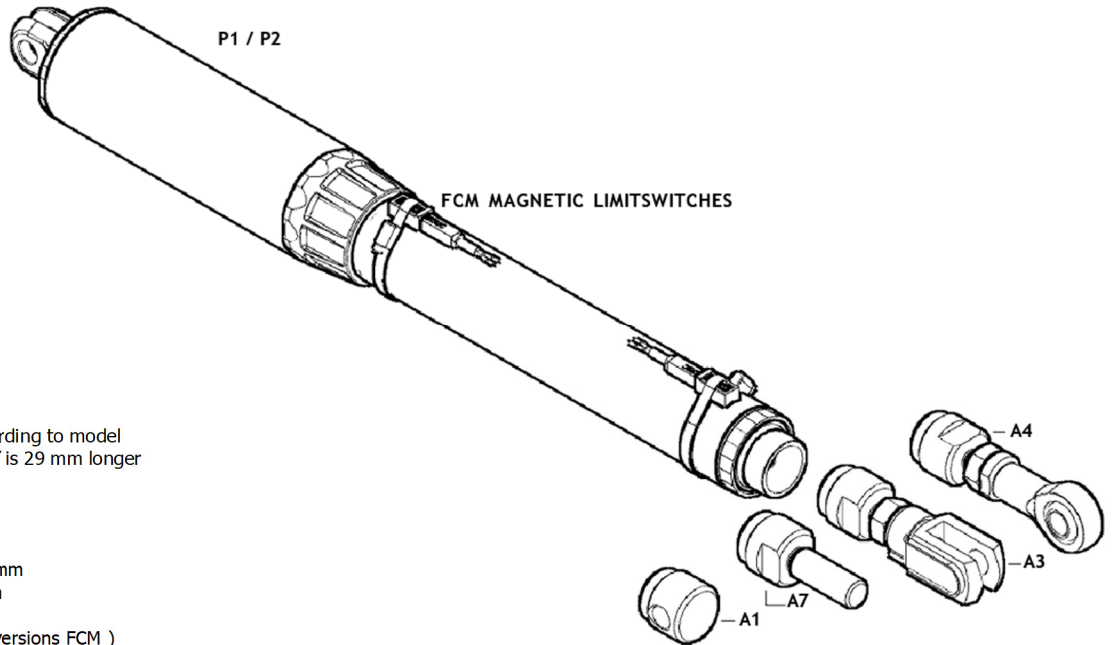
LIMIT SWITCHES None: Leave blank

ENCODER options pg.76 none: leave blank

REAR END P1 = Yoke (standard) P2 = Special (provided drawing)

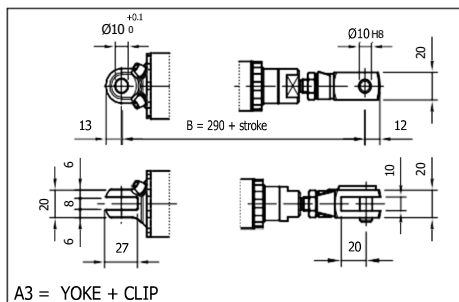
FRONT END A1 = Eyelet (standard) A3 = Yoke + Clip A4 = Rod end A7 = M10 male

NOTE: Complete the ordering key adding the options you can find in the "Accessories and Options" section

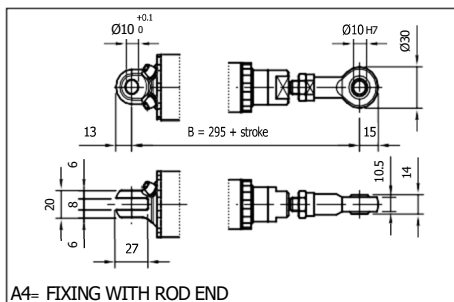


Note: "B" dimension changes according to model
Note: With encoder, dimension "B" is 29 mm longer

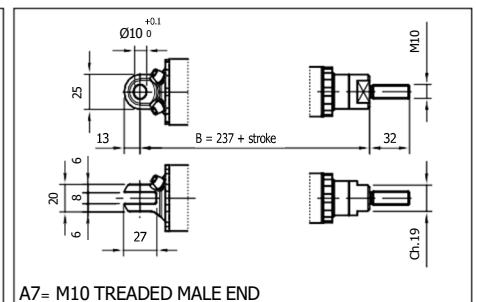
L02 = See pictures
L02 stroke > 320 mm = + 11 mm
L02-FCM = + 34 mm
L02-FCM stroke > 320 mm = + 45 mm
L02 with safety nut "G" = + 30 mm
L02-VRS = + 40 mm
L02 with Bellows + 20mm (no for versions FCM)



A3 = YOKE + CLIP



A4= FIXING WITH ROD END



A7= M10 TREADED MALE END

GUIDELINE DIMENSIONS ONLY