

- 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.

ACTUATOR SHALL NOT COME TO MECHANICAL STROKE-END, TO AVOID FAILURES.

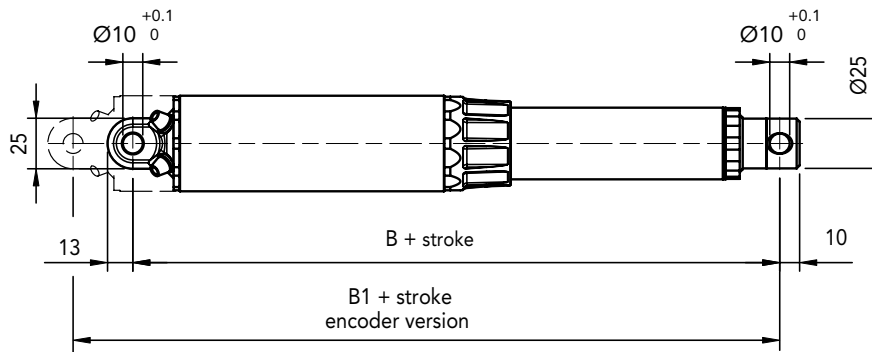
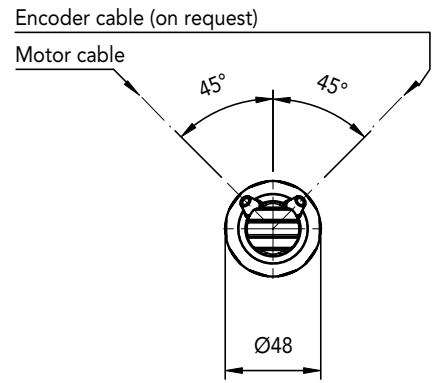
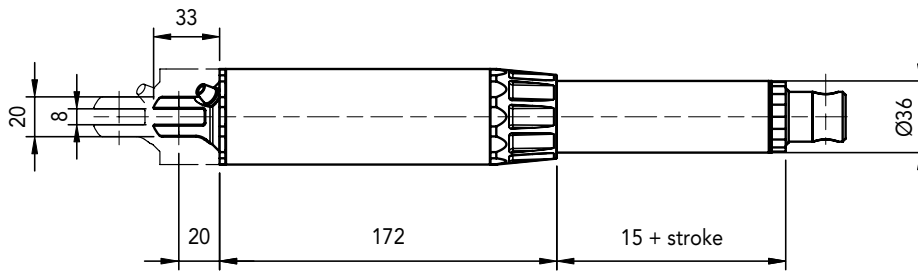
BEFORE OPERATING ACTUATOR MAKE SURE YOU READ AND UNDERSTOOD BASIC OPERATIONAL INSTRUCTIONS SHOWN ON USERMANUALS, AVAILABLE FROM WEBSITE.

THIS DOCUMENT DISPLAYS MOST TYPICAL STANDARD FEATURES AND SETUPS: CONTACT OUR OFFICES FOR MORE.

CONSIDER MECVEL's LIMITSWITCHES (MODEL L02-F or L02-FCM) OR PUT THEM ON MACHINE/FRAME.



MecVel reserves the right to change products information and/or features without notice; all data contained in this catalogue are purely indicative and not binding for the company.

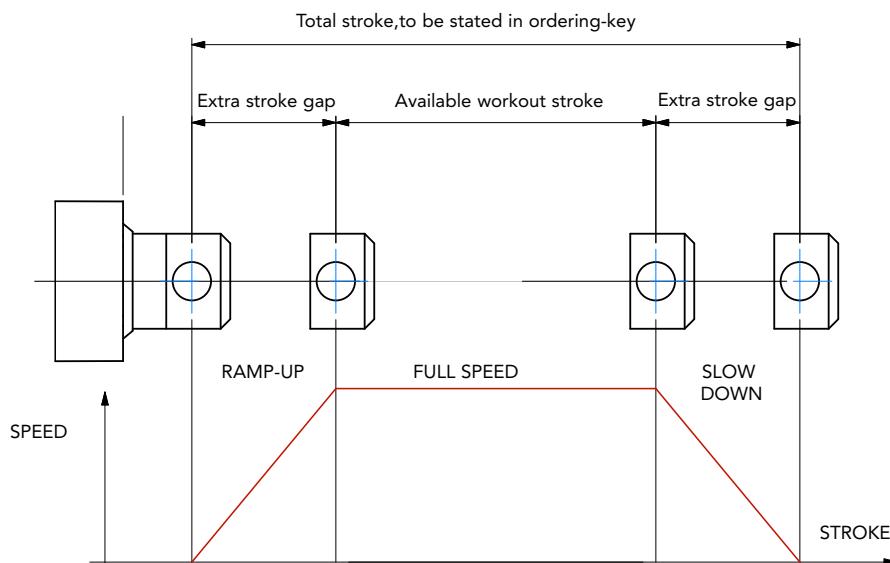


DIMENSION	stroke < 320 mm	stroke > 320 mm
B	228 + stroke	239 + stroke
B1	257 + stroke	268 + stroke

## STROKE SETUP

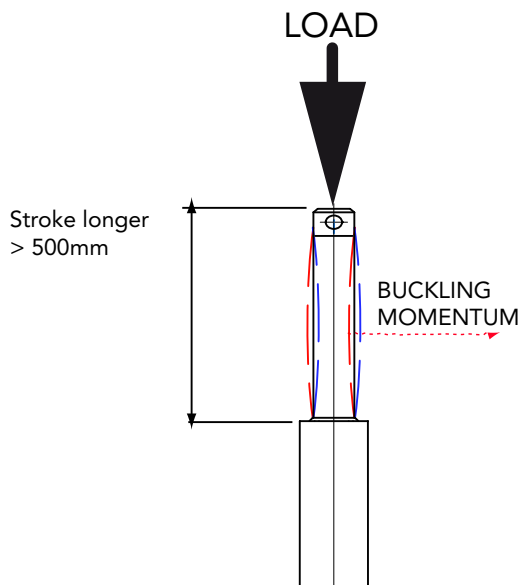
Useful tips for handling stroke and avoid run-on-block collision.

- 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 STROKELENGTH:** ramps are extremely important when speed is >30 mm/s!!! Inverter or PWM drive recommended!
- The more speed raises the more extra stroke has to raise too.



## BUCKLING

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



### IMPORTANT:

Long strokes, even if load is low, can generate significant buckling moment, as sketch shows. This happens when actuator is in its all-opened position: that's the reason why we recommend 100 mm extra-stroke. Pushtube will have this 100 mm-portion always inside the overtube, improving guidance against buckling.

For more information on this, contact our office.

**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 \_\_\_\_\_

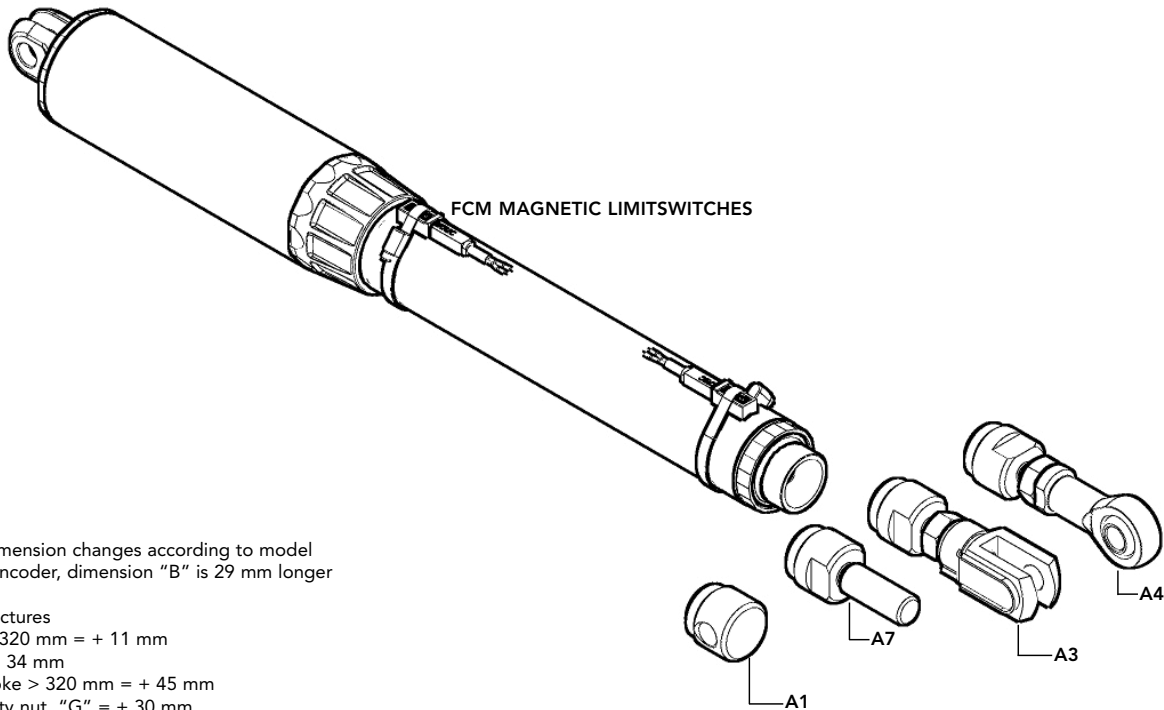
**ENCODER** \_\_\_\_\_  
 options pg.76 \_\_\_\_\_ none: leave blank \_\_\_\_\_

**REAR END** \_\_\_\_\_  
 P1 = Yoke (standard) \_\_\_\_\_ P2 = Special (provide 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

P1 / P2



**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 )

