

ALI3

ELECTRIC LINEAR ACTUATOR

**A SPECIAL EDITION TO CELEBRATE THE REACHING OF
A NEW LEVEL OF PROTECTION**

NEW TECHNOLOGIES MEET ONE OF THE MILESTONES OF MECVEL RANGE TO OFFER A NEW LEVEL OF RESISTANCE

Research and technological development allow to create an innovative and tailored solution to preserve electric linear actuators and make them suitable for many industrial fields

Since 1987 the core business of the company is the design and the manufacture of linear actuators and screw jacks, electromechanical devices transforming the rotatory motion of a motor into a linear movement, pushing, pulling, lifting or positioning loads even higher of 20 tons.

Now MecVel goes a step further, with the aim to increase the use of linear actuators in different industrial areas, starting from the customization of one of the milestones of its range.

The high level of personalization already achieved by ALI3, in terms of configurations to tailor it according to technical specifications of the application to which it is intended, is extended also to external covers and protective shells, firstly created on the basis of technical drawings, then printed thanks to the most innovative 3D printing technologies.

In this way, a custom-made covering is provided to each product that must be contained and protected, or that must be inserted in a more complex system where it has to comply with specific dimensions.

MecVel ability to constantly innovate itself allows to offer efficient linear movements and reliable solutions in the industrial automation field.

IP69K

In particular, IP69K protection degree, that is the company's aim, means that the electric system can withstand extreme conditions: water pressure between 80 and 100 bar, in phases between 14 and 16 l/min, and with temperatures up to 80 ° C, where the device is not damaged by the effect of high pressure and water or steam jets.

IP69K protection degree, in fact, makes the linear actuator suitable for several applications, with a particular attention for automotive, medical and food industries.

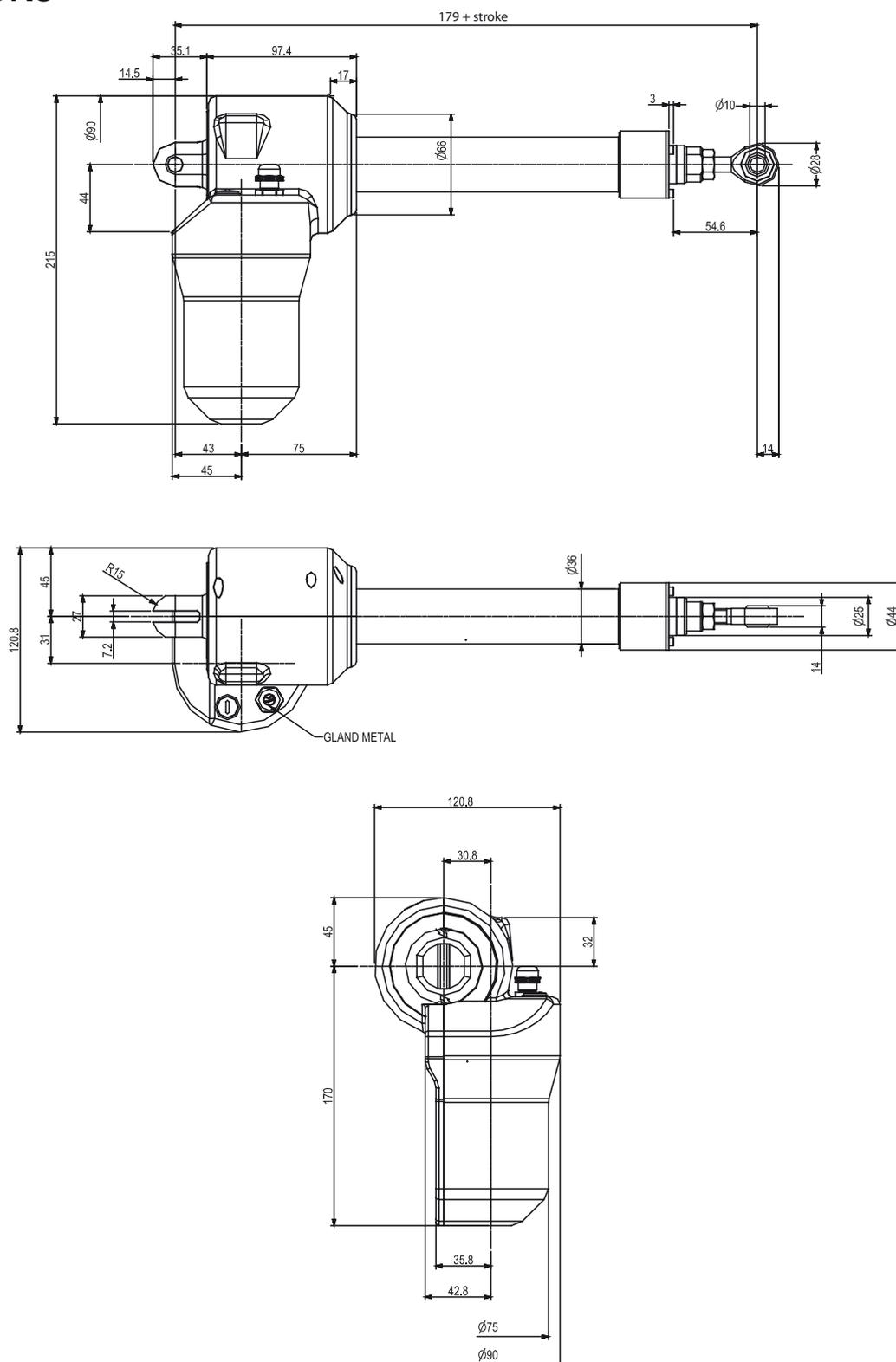
PERFORMANCES

DC MOTOR VERSION									
Fmax [N]	Speed [mm/s]	Version	Motor size	Motor speed [rpm]	Screw diameter [mm]	Screw pitch [mm]	Reduction ratio	Efficiency	Max current Fmax (A) 24 V
3600	35	M01	61.5	5000	16	12	1:26	0,37	13
3600	25	M02	61.5	5000	16	8	1:26	0,27	9
6000	12	M03	61.5	5000	16	4	1:26	0,23	10
6000	9	M04	61.5	5000	16	8	1:69	0,26	7,6
6000	5	M05	61.5	5000	16	4	1:69	0,22	5,8

For 12 V voltage double the current value and reduce the load value of 20%.

Never allow the linear actuator to reach the mechanical stop in order to avoid damages of internal components.

DIMENSIONS



SIZE CHANGING ACCORDING TO OPTIONS

- ALI3 with stroke > 320 mm = +10 mm
- ALI3-FCM = +34 mm
- ALI3-FCM with stroke > 320 mm = +44 mm
- ALI3 with safety nut G = +30 mm

ORDERING KEY

ALI3 / 0250 / M01 / CC-24-61,5-5000 / M0 / E01 / P1 / A1 / A /

MODEL: _____

ALI3
ALI3-FCM

STROKE (step of 50 mm): _____

250 mm = 0250

VERSION (mm/s): _____

M01 M02 M03 M04 M05
M00 with not standard speed

MOTOR: _____

Indicate version, voltage, size, rpm

MOTOR POSITION: _____

M0
Without motor: leave blank

ENCODER: _____

E01
Without encoder: leave blank

REAR END: _____

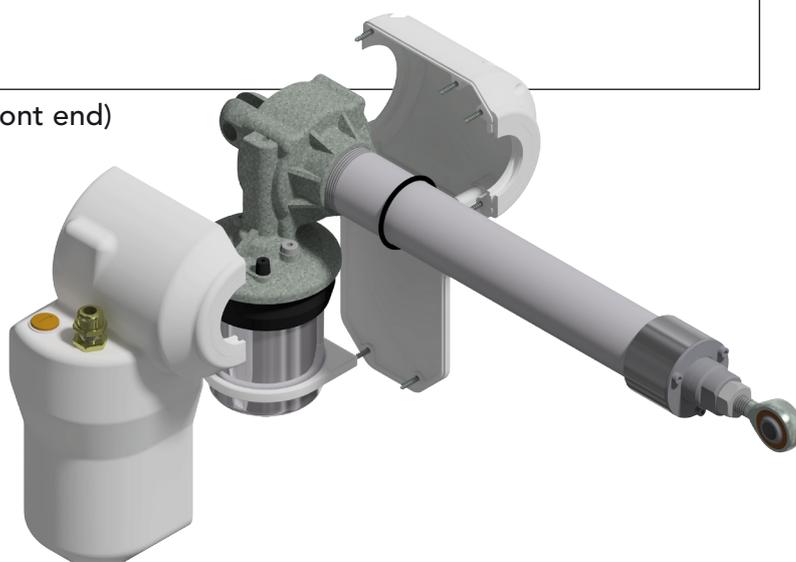
P1: eyelet
P2: eyelet 90°

FRONT END: _____

A1: eyelet
A3: yoke + clip
A4: ball joint
A7: M10

OPTIONS: _____

A: stainless steel version (push rod and front end)
FCM: mechanical limit switches
FX: anti-corrosion protective painting
G: safety nut



MecVel reserves the right to modify without notice any information and/or feature related to its products.
Data contained in this document are indicative and not binding for the company.