

# Linear actuator V44A/B (ACME/Ball Screw)



## TECHNICAL SPECIFICATIONS

Main application	Industrial
Input voltage	24 Volts DC or 12 Volts DC
Max. dynamic load	3000 N (ACME) / 4000 N (Ball Screw)
Max. static load	4000 N (ACME) / 6000 N (Ball Screw)
Max. current	<i>refer to performance data</i>
Strokes	100~400 mm
Power cord length	250 mm (with tinned wires)
End of stroke indication	2 x external reed sensors NC type (normal close)
Transmission type	-ACME spindle -Ball Screw
Over load protection	by friction clutch
Material extension tube	Stainless steel
Speed	maximum 20.5 mm/ sec. unloaded
Control box compatibility	BCI (end of stroke to be controlled manually by the user)
Protection grade	IP54
Operating temperatures	-25° to +65°
Duty cycle	10% (2 mn operation / 18 mn rest)
Outer tube color	Anodized black or aluminium grey

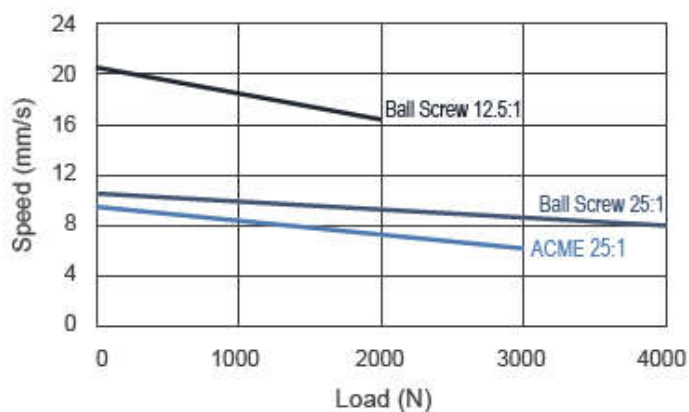
### Options :

« Position reached » signal feedback	3rd external reed sensor NC type (normal close)
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## PERFORMANCES

Spindle type	Gear ratio	Push / Pull Max. (N)	Typical Speed (mm/s)		Typical Current (A)			
			No load	Full load	No load		Full load	
					12V	24V	12V	24V
Ball Screw	25:1	4000	10.5	8	2	1	10.5	5.3
Ball Screw	12.5:1	2000	20.5	16.3	1.9	1	11.3	5.6
ACME	25:1	3000	9.5	6.2	2.5	1.3	15.5	7.3

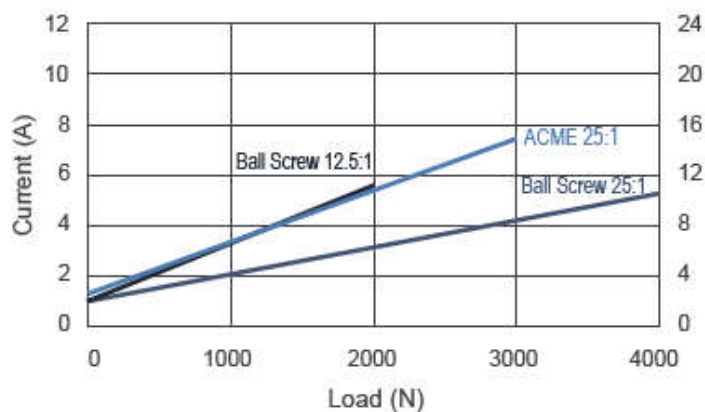
Speed vs. Load



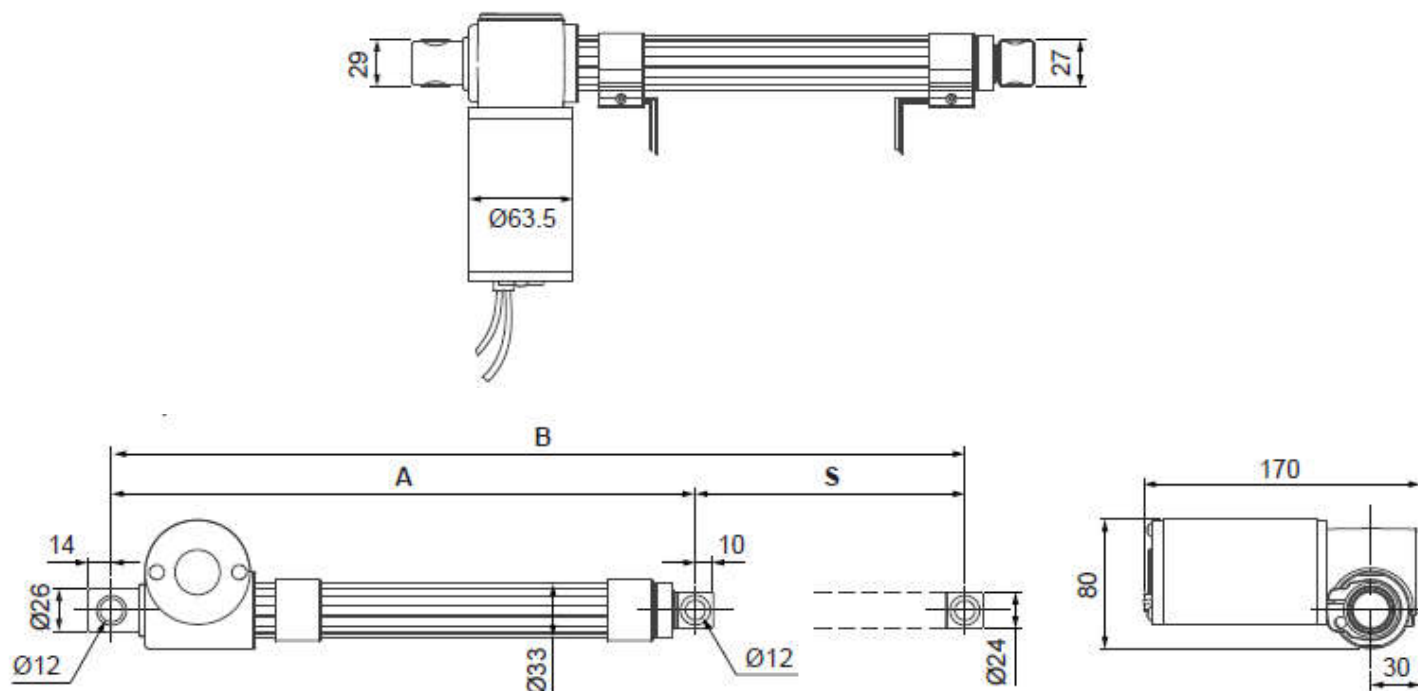
24V DC

Current vs. Load

12V DC



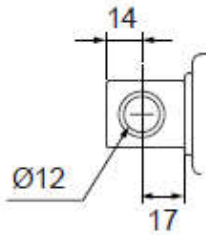
## DIMENSIONS



\* Motor position on the right.

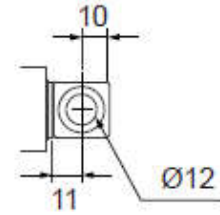
### Rear connector

1: Metal with plastic bushing



### Front connector

1: Metal with plastic bushing



Stroke (S)	100	150	200	250	300	350	400
Retracted Length (A)	253	303	353	403	453	503	553
Extended Length (B)	353	453	553	653	753	853	953

Available stroke (S) range: 100 ~ 400 mm (tolerance: +0/-5 mm)

Extended length (B):  $S + A$

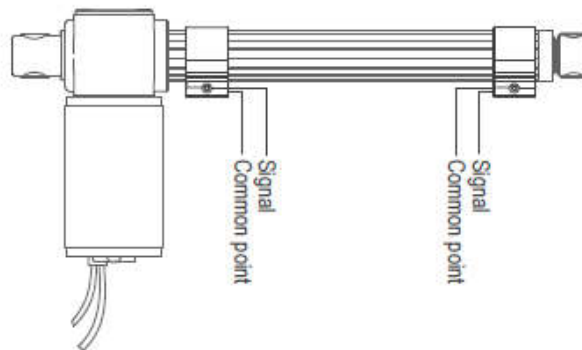
Retracted length (A)  $\geq S + 153$  mm (tolerance:  $\pm 3$  mm)

***N.B. : other customized retracted lengths and strokes available upon request.***

## WIRING DIAGRAM

### External reed sensors for 'end of stroke indication'

- Pick either one of wires on each sensor and connect them as common point, then the other one is defined as signal input.



### The 3rd reed sensor (for 'position reached' signal feedback)

- The third one must be installed in between the other two, as shown below.

