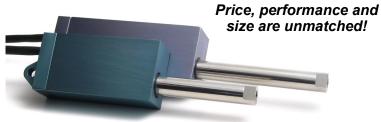


MINI LINEAR ACTUATORS

L16-SERIES 2"& 3" STROKE 6 to 200+ Lbf LOADS

Potentiometer Feedback & Limit Switched Options

Passed FAA Applications requiring STC Rating.



Applications

R.O.V.s, U.A.Vs., R.P.Vs. **Industrial Motion Special Effects** Aerospace/FAA Robotics / A.I. Animatronics

Features Core-less DC Motors Planetary Gear Head Powerful Package

Very Small Outline

RC Plug & Play

Proven Design Our L16's & W70/90 Series Actuators are #1 picks for U.A.V's. & Animatronics.

These Professional Linear Actuators combine power and speed in a rugged miniature precision package never seen before. Designed for robotics and aerospace applications these precision actuators are built with the best components available. Our custom Core-less DC motors with planetary gear-heads, linear feedback potentiometer, and mil spec components

gives them unmatched performance. The lead screw, drive gears, rod, dual bearings, and hardware are all Stainless Steel.

To operate directly with an RC Hobby Radio Signal (PCM) or an 0-5V position signal, order with a potentiometer, and use our"S6PWM" Servo Motor Controllers for a true "Plug & Play System". Factory tested and ready for you to use!

Load / Speed Chart	Ordering Information	L16 Spec	ifications Rev. A
L1618 @ 26VDC Load (lbs) Speed	L16 = Potentiometer only.	L1612 Volts / Amps	13.5-16.5vdc / 3.2A max.
Rated Max f "/Sec	SL16 = Limit Switch only.	Current/V @ Rated Load	1.4A Typ. / 14.2 vdc
6* 20+ 6	LB16 = Potentiometer and Switches	L1618 Volts / Amps	24-28vdc / 2.2A max.
10* 25+ 4		Current/V @ Rated Load	.7A Typ. / 26 vdc
12 50+ 3		Strokes	2.0" or 3.0" Max ±5%
16 65+ 2.7	12V=12 Rated Stroke Special	2" Stroke Body-Dims.	3.265"x 1.56"x 0.952"
20 60+ 2.0	24V =18 Load 2"or 3" options	Weight	7.5 oz
30* 125+ 1.6	Special Options:	3" Stroke Body-Dims.	4.23"x 1.56"x 0.952"
40 220+ 0.7	1. Standard Plug, Conxall P/N 6280-6PG (C)	Weight	8.8 oz
50 230+ 0.55	2. Mil Spec Plug P/N MS3116F10-6P (+M)	Load, Speed, Duty Cycle	See Chart
65 240+ 0.56	3. Mil Spec Plug & (Wire MIL-W-16878) (+MW) 4. Harsh Environment Protection (+H)	End Play	0.002" Typ006" Max.
75 250+ 0.5	5. Extended Temp Range -50° / 100°C (+ET)	Static Load	400 lbf
100 360+ 0.35	6. Rear Clevis Options: (+XX)	Std. Temp. Range	-20º/85ºC (or ET)
200 600+ 0.12	Plugs into our Servo Motor Controllers.	Case	6061-T6 Anodize Finish
* = Actuator back-drivable	(+M) [C] Pin #'s Standard CK Cable (B) [1] Motor (+) 22awg wht/red	Drive	Custom Acme
Speed is at Rated Load	"Super Flex" (C) [2] Motor (-) 22awg wht/blk	Linear Potentiometer	5K .25%Lin. 10M+ Cycle.
50% Duty Cycle @ 25℃	Insulation: (D) [3] Pot. Low* 22awg wht/blk VC per MIL-W-76B 105°C (E) [4] Pot. wiper* 22awg wht	Limit Switches	Honeywell (Mil 8805)
90 % D/C @ 5 % loau	Cable Jacket: (F) [5] Pot high* 22awg wht/red	Notes: The L1612 Series re	
Duty Cycle= Time on time on+time off	Blk. Alcryn,-40°C/+107°C (A) [6] * Shield Braid. Open end in (Case The loads & speeds	
200 lbf in 3" Stroke only			.952" — Rear Clevis
	Body L: 2" Stroke = 3.265" 3" Stroke = 4.230"		P/N Options:
Internal Thread:	Limit switch wiring option. Feedback: Linear	.250" ⁽⁶ " C _{36/6}	N/A = Standard
1/4-28x.325"Dp Retracte Extended 2"= .450		.813"	+9 = 90°
+2.00" 3"= .425) BLK WHT RED 을 꼽고 ? ; _ N.C. N.O. N.O	.563"	
+3.00"	Retract Shown in Fixtend		+E = Extended
	Limit switch did-stroke Limit si		+9E =90° Extended
.50" Φ SS Rod			90° +B =Ball End*
.275" Use a 3/8 wrench to prevent the ro	d d d d d d d d d d d d d d d d d d d	.500"	+9B = 90° Ball End*
from turning when installing a fitting. Each actuator is fully factory tested and load cycled. Certs are availably upon request.			

4525 Industrial St. # 4s, Simi Valley, CA 93063 805-522-3750 Fax 805-522-9379 www.ckdesigntech.com, sales@ckdesigntech.com CK Design Tech. Inc. products are not authorized for life support devices or hazardous applications. All sales are final. Specification may change without notice. CK Design Tech. Inc. does not assume any responsibility for their uses accept or agree to any other liabilities or terms beyond this printed statement. 6-23-14 pg. 3