

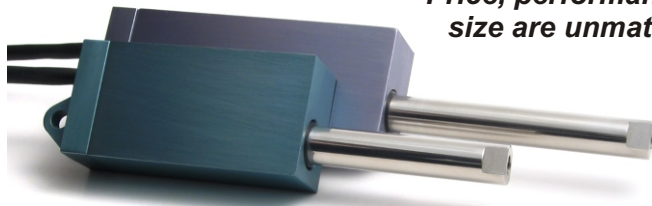


Craig Kackert
**Design
 Tech., Inc.**
 805-522-3750 USA

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

Potentiometer Feedback & Limit Switched Option

Designed for Aerospace applications, actuator "P/N 1206-51-2B" has been approved under a STC Rating. (1)



Price, performance and size are unmatched!

Applications

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

Features

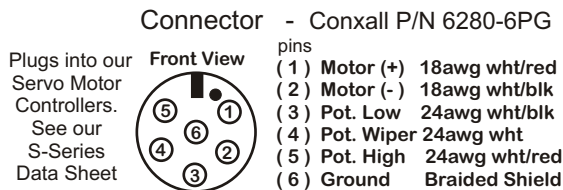
Long Life Motors
 Planetary Gear Head
 Wide Temp. Range
 Very Small Outline
 RC Plug & Play modular system

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 Maxon coreless DC motor with planetary gearhead, linear feedback potentiometer, and mil spec limit switches give it an estimated 10mil.+ cycle life. The lead screw, drive gears, rod, dual bearings, and hardware are all Stainless Steel.

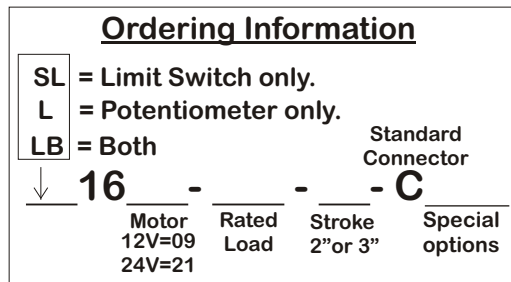
To operate directly with an RC Hobby Radio or an 0-5V position signal, order this actuator with feedback and our separate S6PWM Servo Motor Controller for each. A true "plug & play system", factory tested and ready for you to install!

Load (lbf)	Speed
Rated	Max
6*	20+
10*	25+
12	40+
16	50+
20	60+
25*	75+
40	125+
50	150+
65	200+
75	225+
100	250+
200 ⁽²⁾	400+

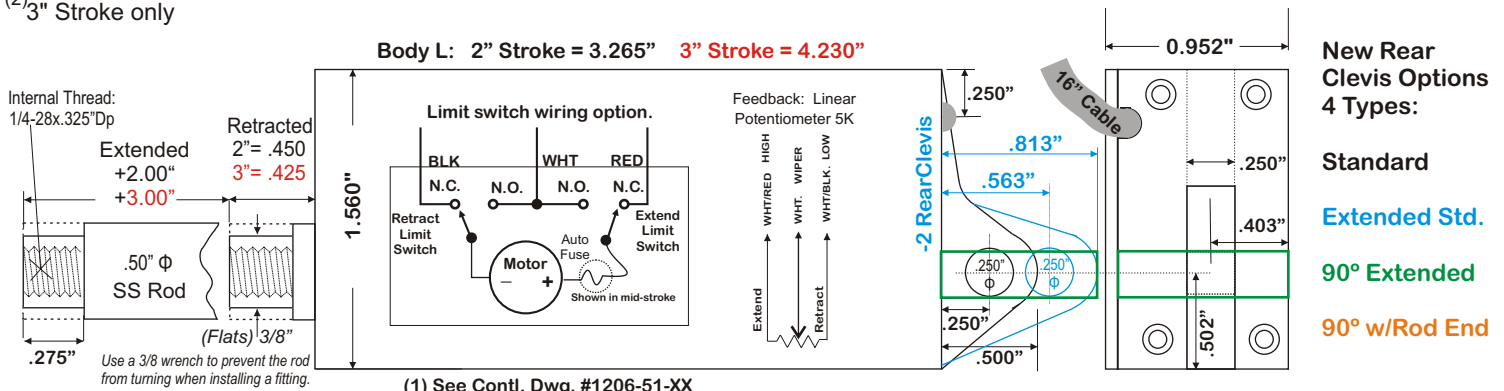
* = Actuator is backdrivable
 Speed is at Rated Load
 Rated = 50% Duty Cycle
 Max = <90% Duty Cycle
 D/C = $\frac{\text{Time on}}{\text{time on} + \text{time off}}$



L16 Series Actuator Specifications	
Voltage/Amps (L1609-)	12-14VDC @3.2A max.
Current @ Rated Load	1.4A Typ. @ 13.5V
Voltage/Amps (L1621-)	24-28VDC @2.2A max.
Current @ Rated Load	.07A Typ. @ 26V
Stroke	2.0" or 3.0" Max ±5%
2" Stroke Body-Dims.	3.265"x 1.56"x 0.952"
Weight	7.5 oz
3" Stroke Body-Dims.	4.23"x 1.56"x 0.952"
Weight	8.8 oz
Load, Speed, Duty Cycle	See Chart
End Play	0.002" Typ., .006" Max.
Static Load	330 lbf
Temp. Range	-50° to 120° deg C
Case	6061-T6 Anodize Finish
Drive	Acme
Linear Potentiometer	5K .25%Lin. 10M+ Cyc.
Limit Switches	10M+ Cyc (Mil 8805)



(2) 3" Stroke only



(1) See Contl. Dwg. #1206-51-XX

Cycle life of actuator could vary depending on operating conditions. Tolerances are + 5%.

Not intended for medical use. Specification may change without notice. Rated load @ 50% duty cycle.

www.ckdesigntech.com

4525 Industrial St. Unit 4s, Simi Valley, CA 93063 805-522-3750 Fax 805-522-9379 3-29-09 pg. 3