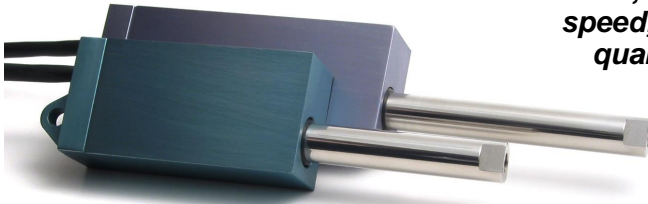


Passed FAA Applications  
 requiring STC Rating.

*Price, performance, power,  
 speed, size, endurance and  
 quality are unmatched  
 Worldwide!*



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

Our L16 Series Mini Linear Actuators are #1 for R.P.V.s., Aerospace, Robotics and Animatronic Applications.

Our Professional L16 Mini Linear Actuators combine power and speed in a rugged miniature 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. Lead screws, drive gears, rods, bearings, and hardware are all Stainless Steel.

Plug & Play our Actuators (Pot F/B, without limit switches) to RC (PCM) or 0-5Vdc, position commands with our Servo Motor Controllers.

Our Servo Amps have interchangeable PID programmed CPU's. Precision tuned for best response performance to match our actuator products.

Load / Speed Chart  
 L1618 @ 26VDC

Load (lbs)	Speed
Rated	Max f "/Sec
6*	20+
10*	25+
12	50+
16	65+
20	60+
30*	125+
40	220+
50	230+
65	240+
75	250+
100	360+
200	600+

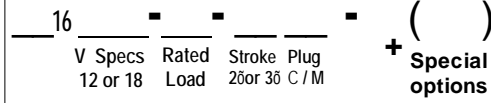
\* = Actuator back-drivable  
 Speed is at Rated Load  
 50% Duty Cycle @ 25°C  
 90% D/C @ 5% load

Duty Cycle =  $\frac{\text{Time on}}{\text{time on} + \text{time off}}$

200 lbf in 3" Stroke only

**Ordering Information**

- L16 Potentiometer, F/B for Servo Control
  - SL16 Limit Switch, for Relay/Switch Control
  - LB16 Both Potentiometer and Switches
- LB16 For Special Applications



(C) Standard Plug, Conxall P/N 6280-6PG

**Special Options:**

1. Mil Spec Plug MS3116F10-6P (+M)
2. Mil Spec Wire MIL-W-16878 (+W)
3. Harsh Environment Protection (+H)
4. Ext. Temp Range -50° / 85°C (+ET)
5. Rear Clevis Options: (+XX)

All L16 & LB16s have (C) Mating Plugs to our Servo Motor Controllers.

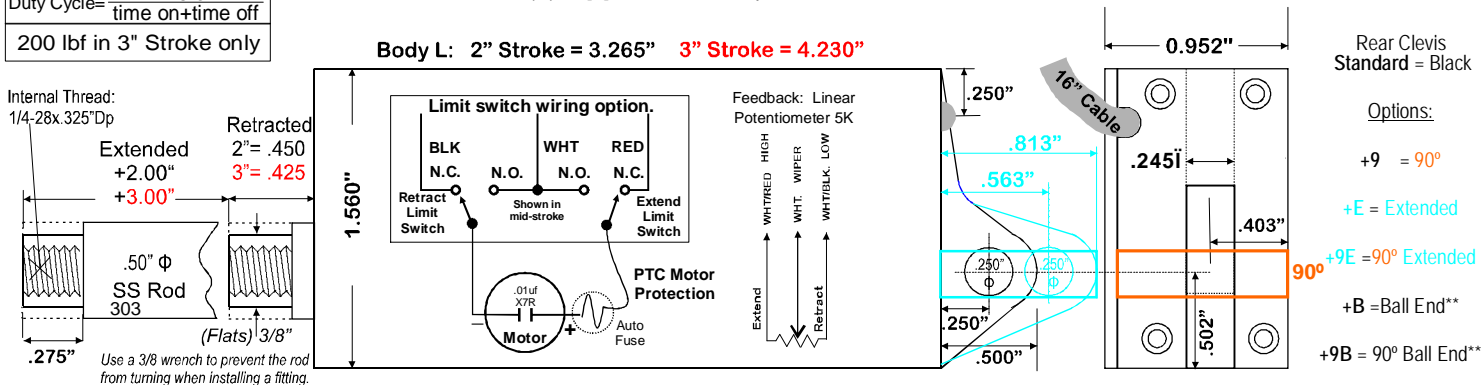
- (+M) [C] Plug Type Pin-Outs
- Standard CK Cable (B) [1] Motor + 22awg wht/red
- Super Flex (C) [2] Motor - 22awg wht/blk
- Insulation: (D) [3] \*Pot low 24awg wht/blk
- PVC per MIL-W-76B 105°C (E) [4] \*Pot wiper 24awg wht
- Cable Jacket: (F) [5] \*Pot high 24awg wht/red
- Blk. Alcryn, -40°C/+107°C (A) [6] \*Pot Shield. Open end in Case

**L16 Specifications**

Rev. A

<b>L1612 Volts / Amps</b>	13.5-16.5vdc / 3.2A max.
Current/V @ Rated Load	1.4A Typ. / 14.2vdc
<b>L1618 Volts / Amps</b>	24-28vdc / 2.2A max.
Current/V @ Rated Load	.7A Typ. / 26vdc
Strokes	2.0" or 3.0" Max ±5%
<b>2" Stroke Body-Dims.</b>	3.265"x 1.56"x 0.952"
Weight	7.5 oz
<b>3" Stroke Body-Dims.</b>	4.23"x 1.56"x 0.952"
Weight	8.8 oz
Load, Speed, Duty Cycle	See Chart
End Play	0.0015" Typ. .006" Max.
Static Load	400 lbf
Std. Temp. Range	-20°/85°C (or ET)
Case	6061-T6 Anodize Finish
Drive	Custom Acme
Linear Potentiometer	5K .25%Lin. 10M+ Cycle.
Limit Switches	Honeywell (Mil 8805)

Notes: The L1612 Series replaced the L1609 Series.  
 The loads & speeds are not listed here.



Notes: Limit Switches are not required when using our Servo Motor Controllers. (Sold Separate)  
 Each actuator is fully factory tested and load cycled. Certs are available upon request.  
 We specialize in Special Custom Modifications Requests from our Customers!

\*\*Ball Ends have .1875" bore and are not shown.