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

# LINEAR ACTUATORS

with feedback  
 W-Series 2" 4", and 6" stroke  
 25 to 150 lbf loads

## Applications

Animatronics  
 R.P.V.'s & U.A.V.'s  
 Special effects  
 Robotics  
 Remote Control  
 Motion

## Features

Low cost models  
 Long life motors  
 Speeds up to 5"/sec  
 RC Plug & Play with  
 our Servo Motor  
 Controllers



## General

These compact and rugged actuators provide consistent performance in harsh environments. W-Series actuators are offered in 2", 4", & 6" strokes with 10k pots. The W10-Series are low cost actuators that come in 25,40 & 75 lbf loads, & 12V or 24V motors. The 24/28V W70 and W90-Series actuators have long life, high performance core-less motors. They provide up to 5"/sec and loads from 50 to 150 lbf. Our L16's & W70/90 Series is #1 pick for U.A.V.'s. & Animatronics.

**!!! PLUG & PLAY direct to your RC PCM Radio with our Servo Motor Controllers and Cables. !!!**

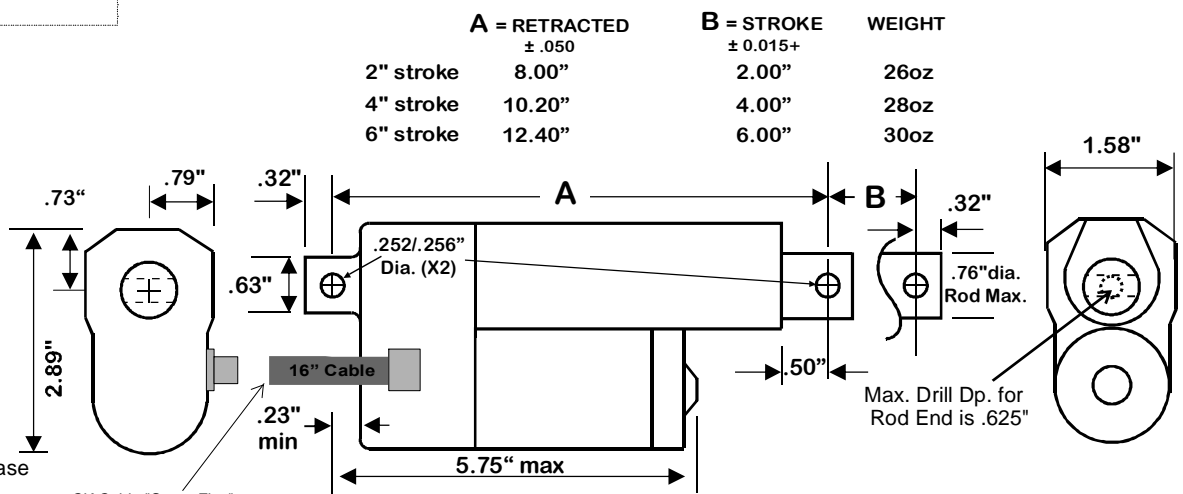
## Specifications

Stroke	2", 4", or 6".
Feedback	10K, 50% of Pot Travel Used
Drive	Acme
End play	<0.012" Typ. .006"
Static load	300 lb
Stall Force	Double rated load
Housing	Al./zink (96hr salt spray)
Mounting	Clevis 1/4" dia
Rod has anti rotation mechanism	

	W1012/24-SERIES	W7024-SERIES	W9015-SERIES
Voltage Range	12/14.7V or 24/28V	24/28V	24/28V
Test Voltage/Amp	14.7V@6A peak (12) 28V @ 3A peak (24)	28V@ 2.4A avg. 6 Amp peak	28V@ 4.2A avg. 8.25 Amp peak for 2 sec.
Motor fuse	Thermal auto reset	None	None
Motor temp.	-20°C to 65° C	-20° C to 120° C	-20° C to 140° C
Duty cycle	30%	50%	50%
Rated load/speed:	25 lb @ 3"/sec	50 lb @ 3.0"/sec	60 lb. @ 5.0"/sec
Rated load/speed:	40 lb @ 1.5"/sec	100lb @ 1.5"/sec	100 lb. @ 3.0"/sec
Rated load/speed:	75 lb @ 1"/sec	150lb @ 1.0"/sec	150 lb. @ 1.5"/sec
Mates With Our:	S6PWM Servo Amp	S6PWM Servo Amp	12PWM Servo Amp.

- Options** \*= Included  
 \*C= Conxall Plug [pin#]  
 P/N 6280-6PG  
 +M= Mil Spec Plug (pin#)  
 P/N MS3116F10-6P  
 +MW= Mil Spec Plug &  
 Wire MIL-W-16878  
 +R2 = Rod End Mod. for 1/4"  
 Ball Swivel Joint.

- Pin #  
 (B) [1] Motor (+) 18awg wht/red  
 (C) [2] Motor (-) 18awg wht/blk  
 (D) [3] Pot. low\* 22awg wht/blk  
 (E) [4] Pot. wiper\* 22awg wht  
 (F) [5] Pot. high\* 22awg wht/red  
 (A) [6] \* Shield Braid. Open end in Case



CK Cable "Super Flex"  
 Insulation: PVC per MIL-W-76B 105°C  
 Cable Jacket: Blk. Alcryn, -40°C/+107°C

## Ordering Information

1012; 1024; 7024 or 9015	Load lb. See Series	Stroke 2,4,6"	Options
W _____	_____	_____	_____

Use our Servo Motor Controllers  
 and cables for "Plug and Play"  
 direct to your RC Radios!

Each actuator is fully factory tested and load cycled. Certs are available upon request.

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