

Utility Linear Actuator



Description

Military inspired design for ultimate firepower utilizing a completely sealed enclosure, ready to be deployed in any application. These Utility Linear Actuator models use a worm gear drive mechanism which makes them quieter than a regular Linear Actuators and much harder to back drive. We made them from a thick hard tough plastic case with aluminum rods to be able to handle the Forces. We are offering them in two different force and speed models and strokes in 2" (inch) increments from 2 to 12 inch strokes.

Built with end of stroke Limit switches to safely stop the actuators at the end of the retracted and extended position, these units also have the benefit of the 3 wire Hall sensor for positional control, if required.

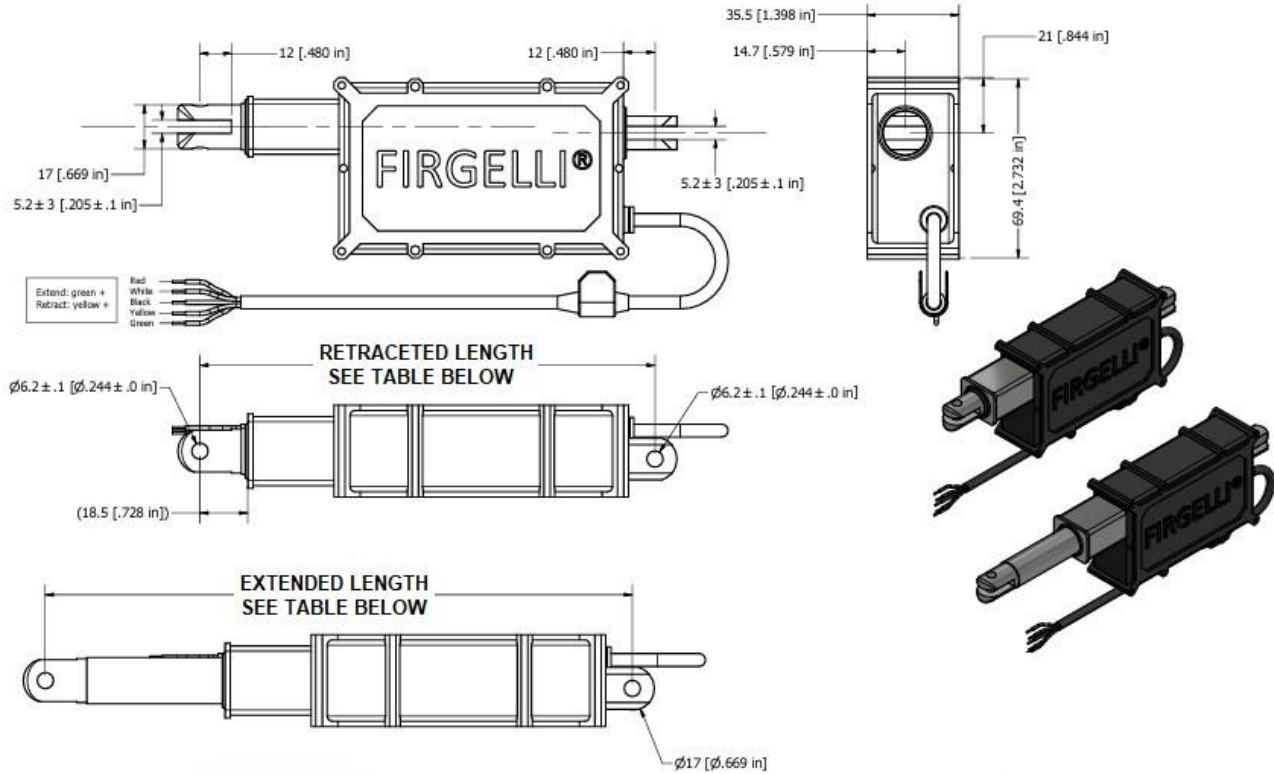
We called them the utility actuator because they have everything, quiet smooth operation, feedback, rugged design, compact in size and multiple stroke options.

Features and Benefits

- Rugged compact design for universal hardy applications. These units are smaller than other actuators for the same force output
- Military inspired design for ultimate firepower utilizing a completely sealed enclosure, ready to be deployed in any application.
- Internal limit switches automatically shut off the unit at the end of the stroke - This protects you and your equipment from possible damage.
- Worm gear drive system for quiet smooth operation.
- 2" stroke increment range of stroke options up to 12" stroke, gives you more flexibility.
- Delivering force options from 110 to 330 lbs.
- Optional Hall sensor feedback built-in. If you want to use it, ignore if you don't need it. 3 wires for the Feedback are included on all these models (black, white, red).
- Actuator wiring is simple. 2 wires (**Green & Yellow**) for the motor. Reversing polarity changes direction of operation. 3 wires (**Red/Black, White**) for the sensor. White is sensor output.
- **IP66** rated – this offers dustproof and water-resistant
- Maintenance-free - Gives you more free time to do more important things
- Accessories sold separately include: Actuator Bracket - Remote Controls - Switches - Micro-Controllers - Power Supplies
- For help with wiring up a Linear Actuator to other devices such as remotes, controllers, multiple Actuators, etc. please use our Wiring Generator
- Brackets - MB1-P , MB1 and MB2

Specifications

Model	FA-U-110-12-XX	FA-U-330-12-XX
Dynamic Force	110 lbs.	330 lbs.
Static Force	110 lbs.	330 lbs.
Speed ("/S)	20mm/sec (No Load)	16mm/sec (No load)
Max Draw	4 amps	8 amps
Duty Cycle	25% at 100% load, 50% at 25% of load.	
IP Rating	IP66	
Screw Type	Worm Gear	
Sound Rating	Extra quiet, only 50 dB	
Input	12v DC	
Clevis End	6.1mm diameter each end	
Operational Temperature	-5°C to 65°C (20°F/150°)	
Limit Switches	Built in, physical switches at each end of the stroke, non-adjustable. For an Adjustable Limit switch actuator, check out our "Adjustable limit switch Actuator"	
Safety Certifications	CE	
Bracket(s)	MB1-P , MB1 and MB2	



Length and Weight

FA-U-110-12-XX

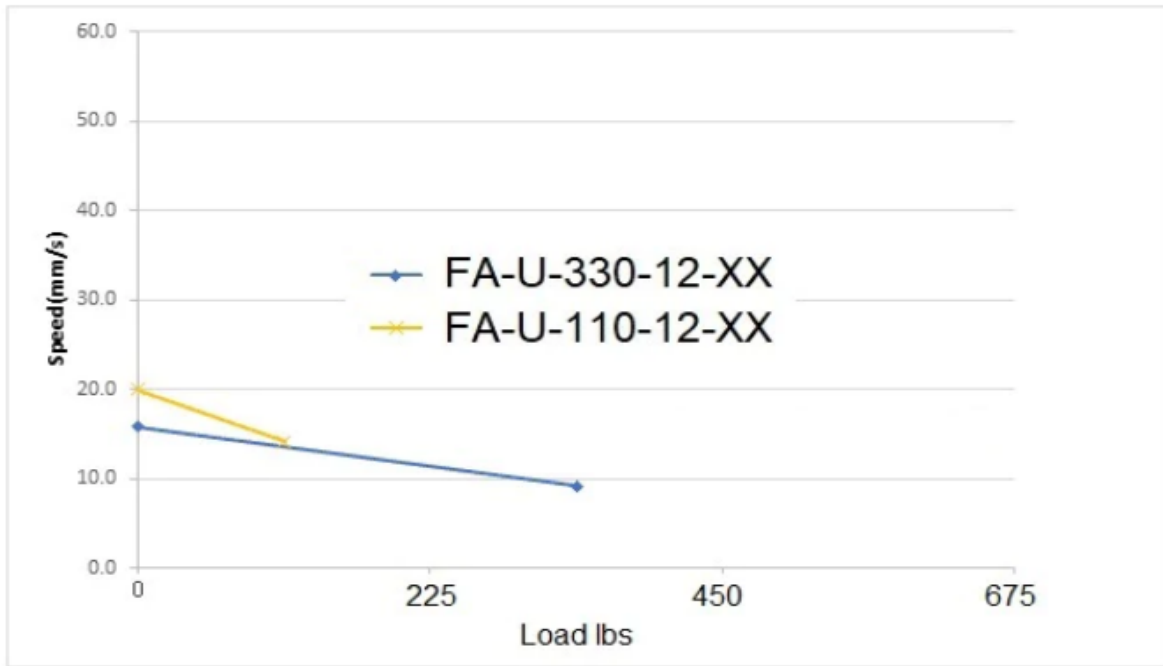
Stroke	Retracted Length	Extended Length	Weight (lbs)
2"	6.93" (176mm)	8.94" (227mm)	1.2
4"	8.94" (227mm)	12.95" (329mm)	1.2
6"	10.91" (277mm)	16.89" (429mm)	1.3
8"	13.03" (331mm)	21.02" (534mm)	1.4
10"	15.24" (387mm)	25.24" (641mm)	1.5
12"	17.44" (443mm)	29.45" (748mm)	1.8

FA-U-330-12-XX

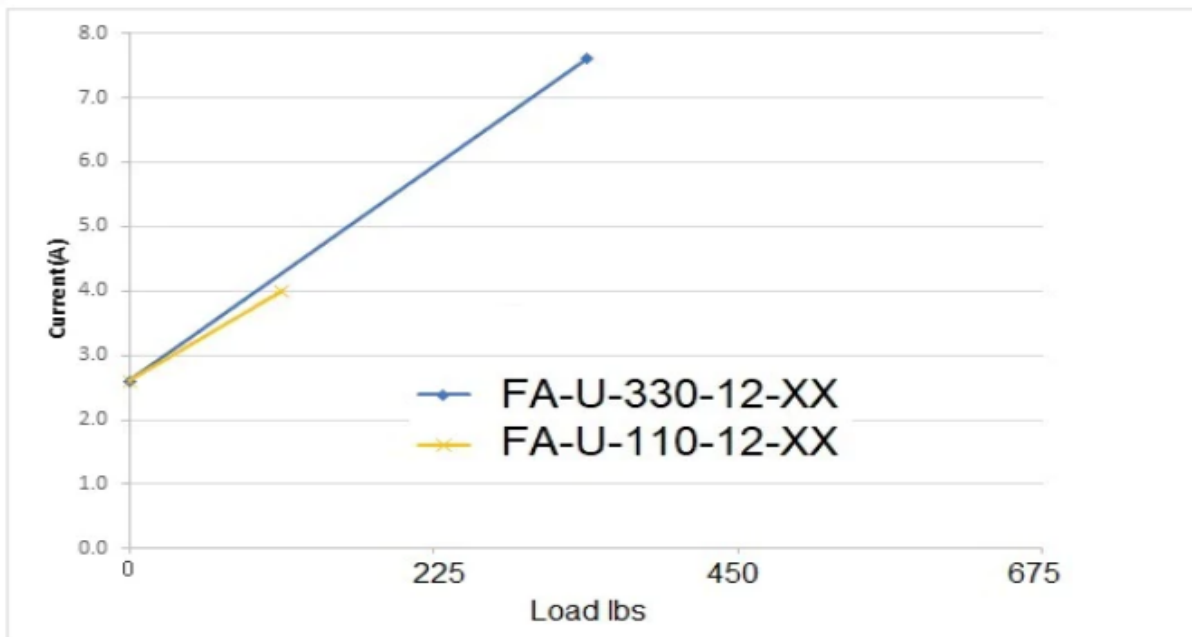
2"	6.54" (166mm)	8.54" (217mm)	1.2
4"	8.54" (217mm)	12.56" (319mm)	1.2
6"	10.51" (267mm)	16.50" (419mm)	1.3
8"	13.03" (331mm)	21.02" (534mm)	1.4
10"	15.24" (387mm)	25.24" (641mm)	1.5
12"	17.44" (443mm)	29.45" (748mm)	1.8

Speed and Load curves

Speed vs Load



Current vs Load



110 Force (FA-U-110-12-XX)

Stroke	Dimensions File	3D Model File
2 Inches	Download	Download
4 Inches	Download	Download
6 Inches	Download	Download
8 Inches	Download	Download
10 Inches	Download	Download
12 Inches	Download	Download

330 Force (FA-U-330-12-XX)

Stroke	Dimensions File	3D Model File
2 Inches	Download	Download
4 Inches	Download	Download
6 Inches	Download	Download
8 Inches	Download	Download
10 Inches	Download	Download
12 Inches	Download	Download