LINEAR ACTUATORS



Joyce linear actuators are designed to lift and precisely position loads of up to 1500 pounds. They are built with cast aluminum housings, include motors (120 VAC or 12 VDC), and are best suited for use in environments that are protected from the elements. A spring brake ensures that the actuators hold position when power is off. The maximum speed, which varies with load, is about 50 inches per minute (LA155).

Joyce linear actuators are designed for either double clevis or trunnion mounting. Standard travel lengths include 3, 6, 12, 18, and 24 inches. The restraining torque for the translating tube is 190 inch-pounds.

Specifications for AC models LA155L & LA155P:

- 120 VAC
- Limit switch available (LA155L)
- Limit switch and potentiometer available (LA155P)
- Approximate weight, 25 lbs + 0.5 lbs per inch of travel

Specifications for 12 VDC models LA152L & LA152C:

- 12 VDC
- Limit switch available (LA152L)
- Overload clutch available (LA152C)
- Approximate weight, 19 lbs + 0.5 lbs per inch of travel

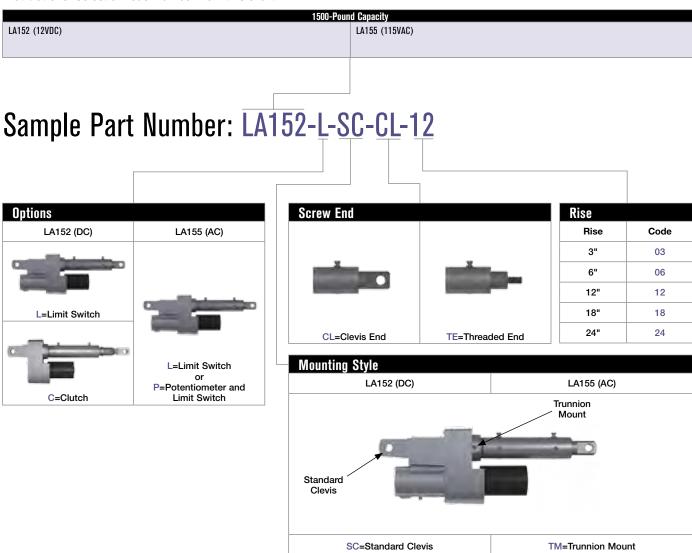
Joyce offers Linear Actuators in several designs including:

- 120 VAC with limit switch
- 120 VAC with limit switch and potentiometer
- 12 VDC with limit switch
- 12 VDC with clutch

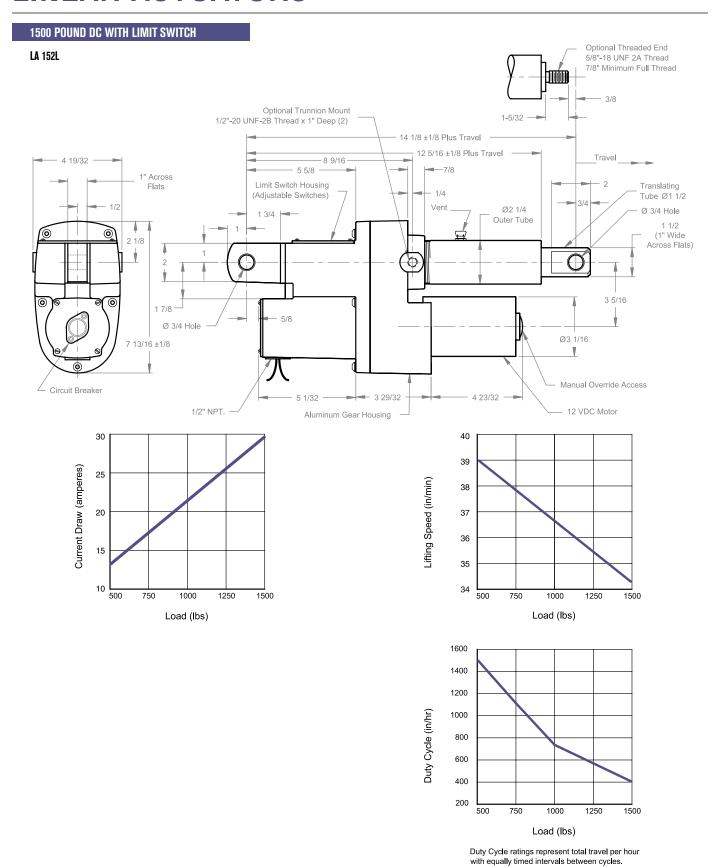
A guide for ordering is on page 144.

LINEAR ACTUATORS ORDERING INFORMATION

Instructions: Select a model number from this chart.



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Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

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1500 POUND DC WITH SLIP CLUTCH Optional Threaded End **LA 152C** 5/8"-18 UNF 2A 7/8" Min. Full Thrd. Optional Trunnion Mount 1/2"-20 UNF-2B Thread x 1" Deep (2) Travel 14 ±1/8 Plus Travel 9 1/2 ±1/8 Plus Travel - 4 19/32 -- 5 23/32 Slip Clutch 2 25/32 Assembly Translating Flats 1 3/4 Tube Ø1 1/2 Ø 3/4 Hole Vent Ø2 1/4 Outer Tube <u></u> 2 1/8 1 1/4 x 1" Wide 4 3 5/16 Ø 3/4 Hole Ø3 1/16 2 3/16 7 13/16 ±1/8 Manual Override Access Circuit Breaker 4 1/32 4 23/32 12 VDC Motor Aluminum Gear Housing 30 40 39 Current Draw (amperes) 25 Lifting Speed (in/min) 20 36 15 35 10 500 500 750 1000 1250 1500 750 1000 1250 1500 Load (lbs) Load (lbs) 1600 1400 1200 Duty Cycle (in/hr) 1000 800 600 400 750 1250 Load (lbs)

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Duty Cycle ratings represent total travel per hour with equally timed intervals between cycles.

LINEAR ACTUATORS

1500 POUND AC WITH LIMIT SWITCH Optional Threaded End **LA 155L** 5/8"-18 UNF 2A Thread **LA 155P** 7/8" Minimum Full Thread 3/8 Optional Trunnion Mount 1-5/32 -1/2"-20 UNF-2B Thread x 1" Deep (2) 14 1/8 ±1/8 Plus Travel 12 5/16 ±1/8 Plus Travel Travel __ 4 19/32 -8 9/16 5 5/8 -7/8 1" Across Limit Switch Housing Flats Translating (Adjustable Switches) Tube Ø1 1/2 Vent Ø2 1/4 Ø 3/4 Hole 1 3/4 Outer Tube 1 1/2 (1" Wide **⊚** Across Flats) 3 5/16 Ø 3/4 Hole Ø3 13/16 7 13/16 ±1/8 Housing Manual Override Access 3 29/32 5 1/32 6 5/16 1/2" NPT. 115 VAC Motor Aluminum Gear Housing 54 **AC Linear Actuator Motor Leads** Direction L1 (Line) L2 (Neutral) Ground 50 Lifting Speed (in/min) Extend Blue White Green 46 Retract Red White Green 42 38 500 750 1000 1250 1500 Load (lbs) 650 600 Duty Cycle (in/hr) 550 Current Draw (amperes) 2 500 450 500 750 1000 1250 500 750 1000 1250 1500 1500 Load (lbs) Load (lbs) Duty Cycle ratings represent total travel per hour with equally timed intervals between cycles.

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.