



# Brake Actuators\*

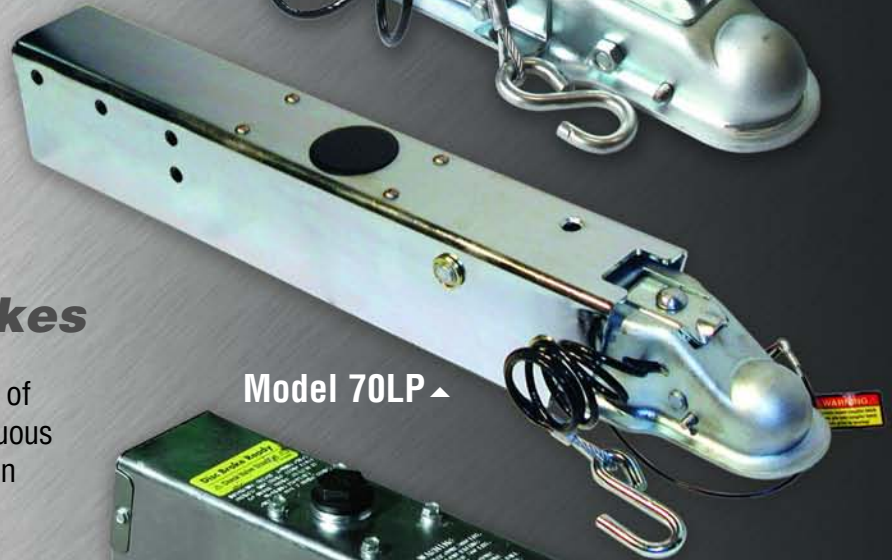
**For Trailers Equipped with Disc or Drum Brakes**

Tie Down's actuators represent over two years of product development and eight months of continuous testing. The ten product features (referenced on back) are the result of numerous suggestions brought forth by trailer manufacturers and trailer users that wanted improvements in hydraulic brake actuation. The patented all aluminum master cylinder incorporates the shock absorber into the master cylinder assembly. This exclusive product feature was designed into our master cylinder in order to provide the tow vehicle operator with a warning signal when the brake fluid is at a low level. Our oversized master cylinder provides the higher pressures required to run disc brakes and the added brake fluid volume to run multi axle configurations. The oversized master cylinder design positively provides for quicker stopping due to the higher braking pressure. Our Model 66 capacity actuator provides trailer manufacturers with greater towing capacity (6,600 lbs.) than traditional 6000 lb. capacity actuators. The coupler is manufactured from a heavier gauge steel when compared to other actuator manufacturers. Capacities from 6,600 lbs. to 12,500 lbs. Tie Down Engineering has your actuator needs covered.

\*U.S. Patent 6,375,211



▼ Model 66



Model 70LP ▲



Model 80E ▲



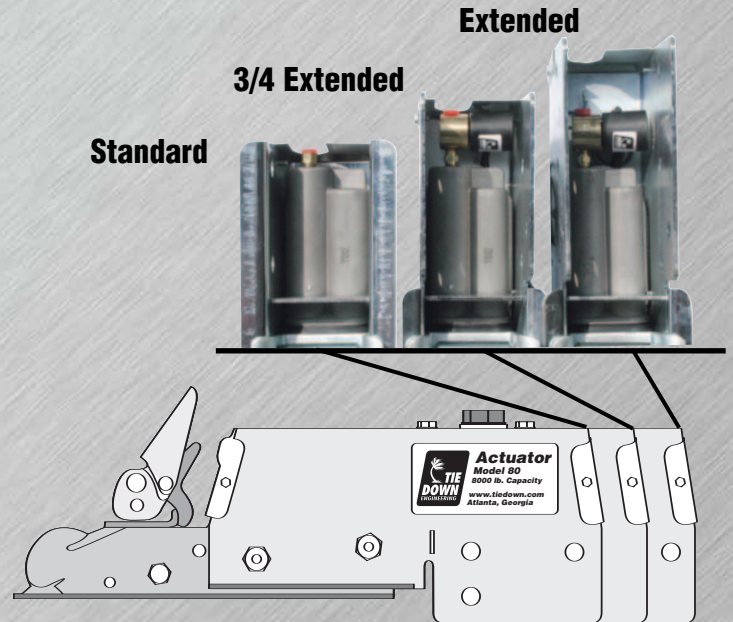
Model 125 ▲

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## Tie Down Actuator Features:

- 7000# & 8000# Capacities with optional extended housing
- Cast ball clamp & extended latch lever
- Exterior emergency safety cable lock and release
- Heavy duty vinyl coated coiled emergency stop cable
- Safety ball clamp lock pin with reverse lock out feature
- "3/4" housing protects solenoid and allows easier brake line connection
- Available built in back flow solenoid on extended & "3/4" housing models



## Actuator DRUM Brake Models:

Part #	Model	Capacity
47210	66	6,600 lbs.
47202	70	7,000 lbs.
47213	70-3/4	7,000 lbs.
47203	70E	7,000 lbs.
47225	70 LP	7,000 lbs.
47226	70 LP	7,000 lbs.
Custom*	70S	7,000 lbs.
Custom*	70P	7,000 lbs.
Custom*	70PC	7,000 lbs.
47206	80	8,000 lbs.
47207	80E	8,000 lbs.
48780D	125	12,500 lbs.

## Actuator Options/Style

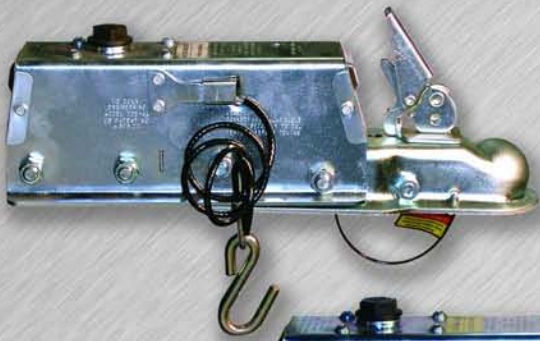
- Standard Housing
- Standard Housing
- 3/4 Extended Housing w/Solenoid
- Extended Housing w/Solenoid
- Standard Housing w/Solenoid
- Swing Tongue
- Pivot
- Pivot with Safety Cables
- Standard Housing
- Extended Housing w/Solenoid
- Standard Housing

## Actuator DISC Brake Models:

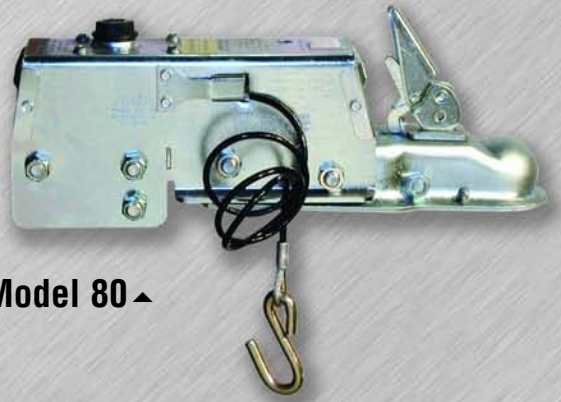
47211	66	6,600 lbs.
47204	70	7,000 lbs.
47213	70-3/4	7,000 lbs.
47205	70E	7,000 lbs.
47227	70 LP	7,000 lbs.
47228	70 LP	7,000 lbs.
Custom*	70S	7,000 lbs.
Custom*	70P	7,000 lbs.
Custom*	70PC	7,000 lbs.
47208	80	8,000 lbs.
47209	80E	8,000 lbs.
48780B	125	12,500 lbs.

- Standard Housing
- Standard Housing
- 3/4 Extended Housing w/Solenoid
- Extended Housing w/Solenoid
- Standard Housing w/Solenoid
- Swing Tongue
- Pivot
- Pivot with Retractable Safety Cables
- Standard Housing
- Extended Housing w/Solenoid
- Standard Housing

\*Actuator models manufactured to customer specifications

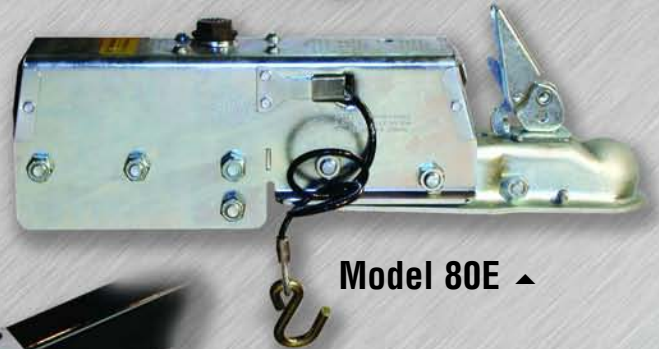


◀ Model 66

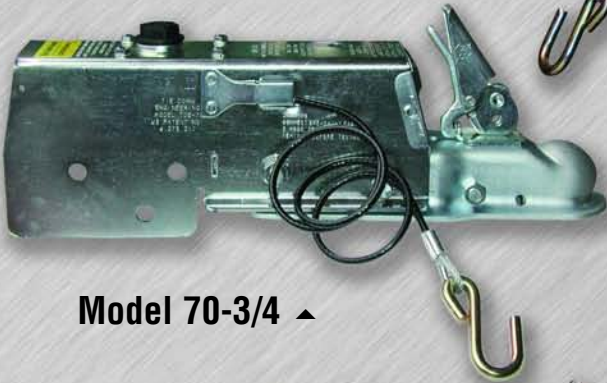


Model 80 ▶

Model 70 ▶



Model 80E ▶



Model 70-3/4 ▶



◀ Model 70S

*Patent Pending*



Model 70E ▶



▶ Model 70PC

*U.S. Patent 6,581,952*



Model 70LP ▶



Model 125 ▶

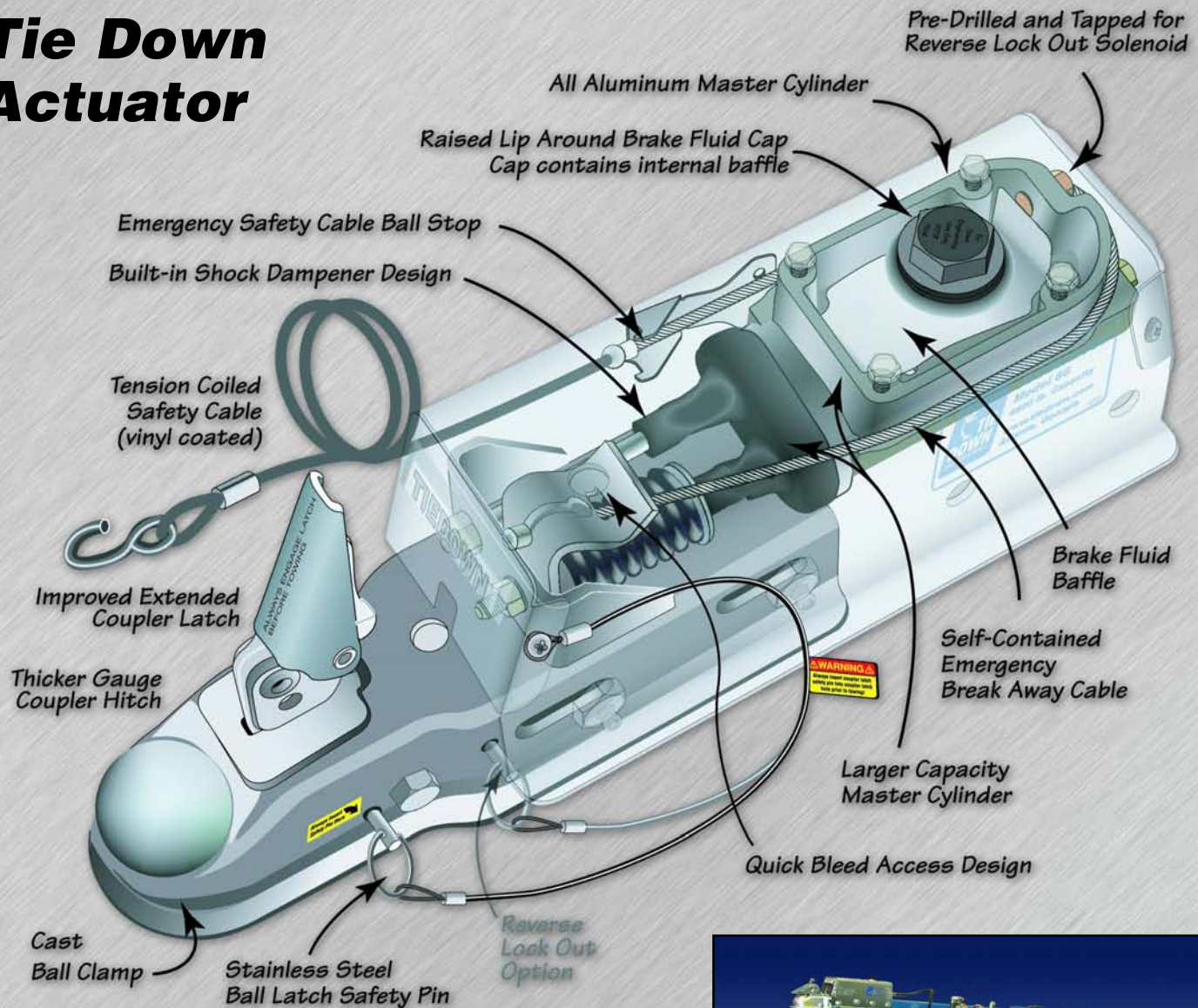


Model 70P ▶

*U.S. Patent 6,589,540*

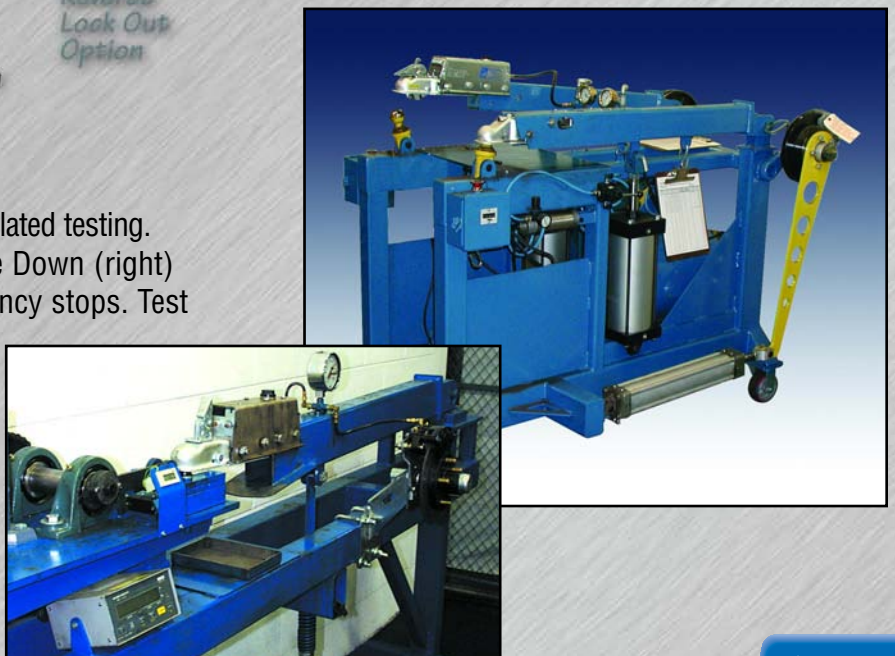
**NOTE:** Mounting nuts and bolts not included.

# Inside the Tie Down Actuator



## Actuator Testing

Actuator testing includes both road and simulated testing. Test simulation equipment designed by Tie Down (right) replicates over 100,000 full stroke emergency stops. Test simulations are repeated at 15 cycles per minute intervals. In addition, tongue weights of 660 lbs., with shock loads of 1200 lbs. are designed into each test cycle. Test simulations are conducted non stop, day after day, to simulate the absolute worst conditions.



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