

# PISTON SPRING BRAKE ACTUATORS FOR DRUM/DISC BRAKES

## Why use a Piston Brake?



MJS/MJB Series “Piston” Spring Brakes are designed to provide dependable service for the long haul, as well as withstand the rigors of “stop and go” operations such as emergency response and parcel delivery.

MJS/MJB series chambers provide fleets with the ability to keep moving, even with an air leak in the spring side of the unit. Unlike diaphragm type spring brakes, which can be rendered inoperable by a minor rupture in the spring side diaphragm, MJS/MJB series piston brakes continue to function, even if the “piston-seal” becomes worn or damaged. This feature allows the piston brake to maintain sufficient air pressure to “hold-off” the power spring, allowing the vehicle to complete its route and return home for repair, avoiding the high cost of an “on-the-road” service call. This is a benefit fully recognized by an overwhelming number of transit bus operations, worldwide.

MJS/MJB actuators also provide higher parking brake forces: as much as 502 lbs. more at 1.25” stroke over an equivalent-sized double-diaphragm model. This provides additional parking force that will assure stronger parking stability for vehicles, especially those that operating in the transit, emergency, fire, refuse, and construction industries. This will greatly improve the parking safety of all vehicles, especially on various road grades where vehicle parking stability is critical.

## Guaranteed Tough—

Steel and epoxy combine to make the MGM Brakes Piston Spring Brake the most durable you can buy.



## FEATURES & BENEFITS

MGM Brakes Piston Spring Brakes have a heavy-gauge steel head and a tough double protective coating for long service life. The result is a piston spring brake that is:

- Impact Resistant
- Corrosion Resistant
- Virtually Maintenance-Free

You can count on the MGM Brakes piston spring brake to perform when you need it most. Compare the benefits and safety features built into the MGM piston spring brake against the brakes you’re using now.

Compatible with:

- S-Cam Brakes
- Disc Brakes
- Wedge Brakes

- Compact design: smaller diameter, shorter height.
- Interchangeable as replacement for other makes of spring brakes.
- Fits in tight areas where some spring brakes can’t due to protrusion of release bolt.
- Engineered and built for dependable, trouble-free service on heavy-duty trucks and trailers, even in severe service conditions.
- Manufactured and guaranteed by the world’s largest and most experienced spring brake manufacturer.



# BUILT SAFE • BUILT STRONG • BUILT HERE

# OUTSTANDING PERFORMANCE FOR DEMANDING APPLICATIONS

## MODEL MJS / MJB SERIES

### Performance Characteristics

The world's most advanced spring brake chamber delivers more reliable stopping and parking-force/output power for today's air-braked heavy-duty commercial vehicles. Ideally suited for refuse, ready-mix concrete, school bus and transit fleets.

MJS Piston Type Model		
Model Size	Parking Chamber Force Output at 1.25 Inch Stroke Nominal $\pm$ 10% lbs.	Hold-Off Pressure (psig)(a)
MJxx24-DT/ET	1922 lbs.	71
MJxx28-ET	2320 lbs.	73
MJxx30-ET	2450 lbs.	75

Models Available - Drum	Size	Models Available - Disc	Size
MJS1724ET	1724	MJB1624ET	1624
MJS2024ET	2024	MJB1824ET	1824
MJS2030ET	2030	MJB2024ET	2024
MJS2424ET	2424	MJB2224ET	2224
MJS2430ET	2430	MJB2424ET	2424
MJS3024ET	3024	MJB2430ET	2430
MJS3028ET	3028		
MJS3030ET	3030		
MJS3628ET	3628		
MJS3630ET	3630		

### Some exclusive features include:

#### 1. Release Bolt

Patented "Dual Thread Bolt" design; exclusive to MGM Brakes, provides minimal bolt protrusion at maximum release.

#### 2. "Long Life" Power Spring

Powerful, reliable, non-coil clash design. Heat-fused epoxy-coated for maximum corrosion protection.

#### 3. Piston Seal and Guide Ring

Main seal is molded from specially formulated low temperature (-65°) and oil resistant neoprene to provide long term protection against air leaks. Guide ring is "self-lubricating" for long service life.

#### 4. Steel Head

MGM Brakes "Roll-In" Tamper Resistant design steel head provides high-impact protection and is double-coated for maximum resistance to corrosion.

#### 5. External Breather Tube

Vents air from the inside protected area of the non-pressure chamber to effectively seal out liquid and solid corrosive airborne contaminants.

#### 6. Center Case Push-Rod and Seal

Aluminum push-rod surface is hard coat finished and slightly porous to retain lubricants. New multi-lipped pressure activated seal retains lubrication to ensure a positive air seal at full range of stroke. Newly designed high tech polymer "guide" prevents metal to metal contact and wear from side loading.

#### 7. "Roll-In" Tamper Resistant Design

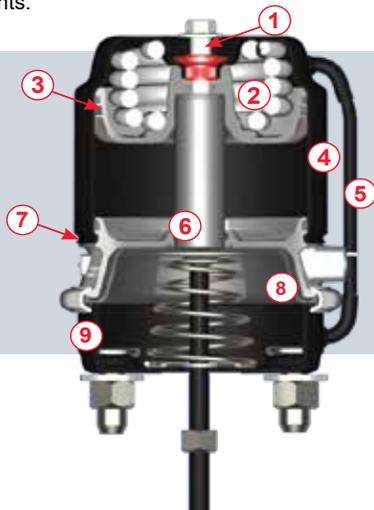
With the MGM Brakes "Roll-In" Tamper Resistant design, the heavy gauge steel head is permanently "locked" to the rugged, non-corrosive alloy 360 aluminum center case to positively prevent inadvertent disassembly of the power spring housing.

#### 8. Heavy-Duty Diaphragm

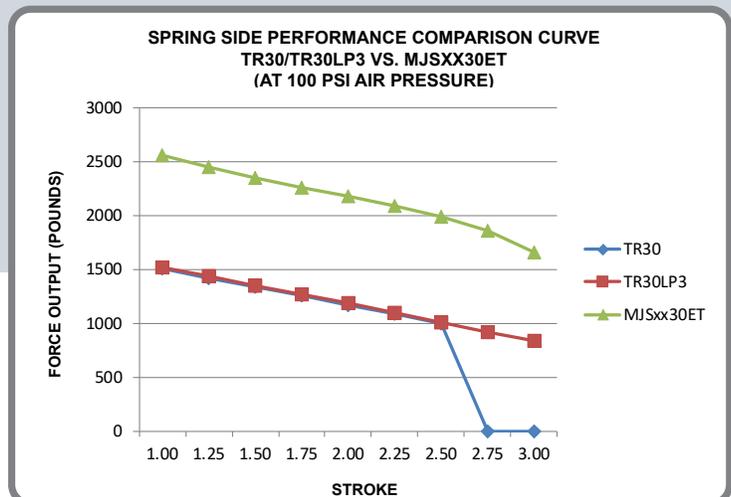
Cold weather tested (-40°F/-40°C) natural rubber for long service life and resistance to deterioration.

#### 9. Non-Pressure Chamber

Heavy-duty gauge steel; heaviest gauge in the industry, embossed for added strength. Heat-fused epoxy-coated to protect against rust and corrosion.



**MJSXX24**  
(model shown)



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