



A Chris Alston's Chassisworks, Inc. Brand

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## VariShock High-Force QuickSet 2 Coil-Overs Double-Adjustable Coil-Over Shock Absorbers

PRODUCT IS FOR USE IN EXTREME HORSEPOWER RACING APPLICATIONS



### Benefits of High-Force Valving

- **Improved Launch Consistency**  
Stiff valving ensures repeatable launches by controlling suspension dynamics. A properly tuned QuickSet 2 coil-over can reduce 60-foot times by 0.1–0.2 seconds by optimizing tire hookup.
- **Enhanced Traction**  
By slowing suspension compression (high bump) and extension (high rebound), stiff valving maximizes tire patch contact, especially during the critical first 60–100 feet. This is vital for high-horsepower cars where traction is the limiting factor.
- **Precise Tuning for Chassis Dynamics**  
Adjustable valving offers granular control (e.g., 256 combinations with QuickSet 2). Racers can soften rebound to allow more rear rise for weight transfer or stiffen bump to reduce squat, tailoring the setup to the car's power curve, weight distribution, and tire compound.
- **Reduced Chassis Oscillation**  
High-horsepower launches induce chassis pitching and oscillations. Stiff valving dampens these movements, keeping the car stable and preventing loss of control or traction mid-run. Smoother runs with less driver correction, critical for low-6-second or 5-second passes.

### Features

- Aluminum body design; (Made in America)
- One-piece lower spring seat with locking set screws
- Half turn positive-click spring preload stops
- Rebuildable if necessary

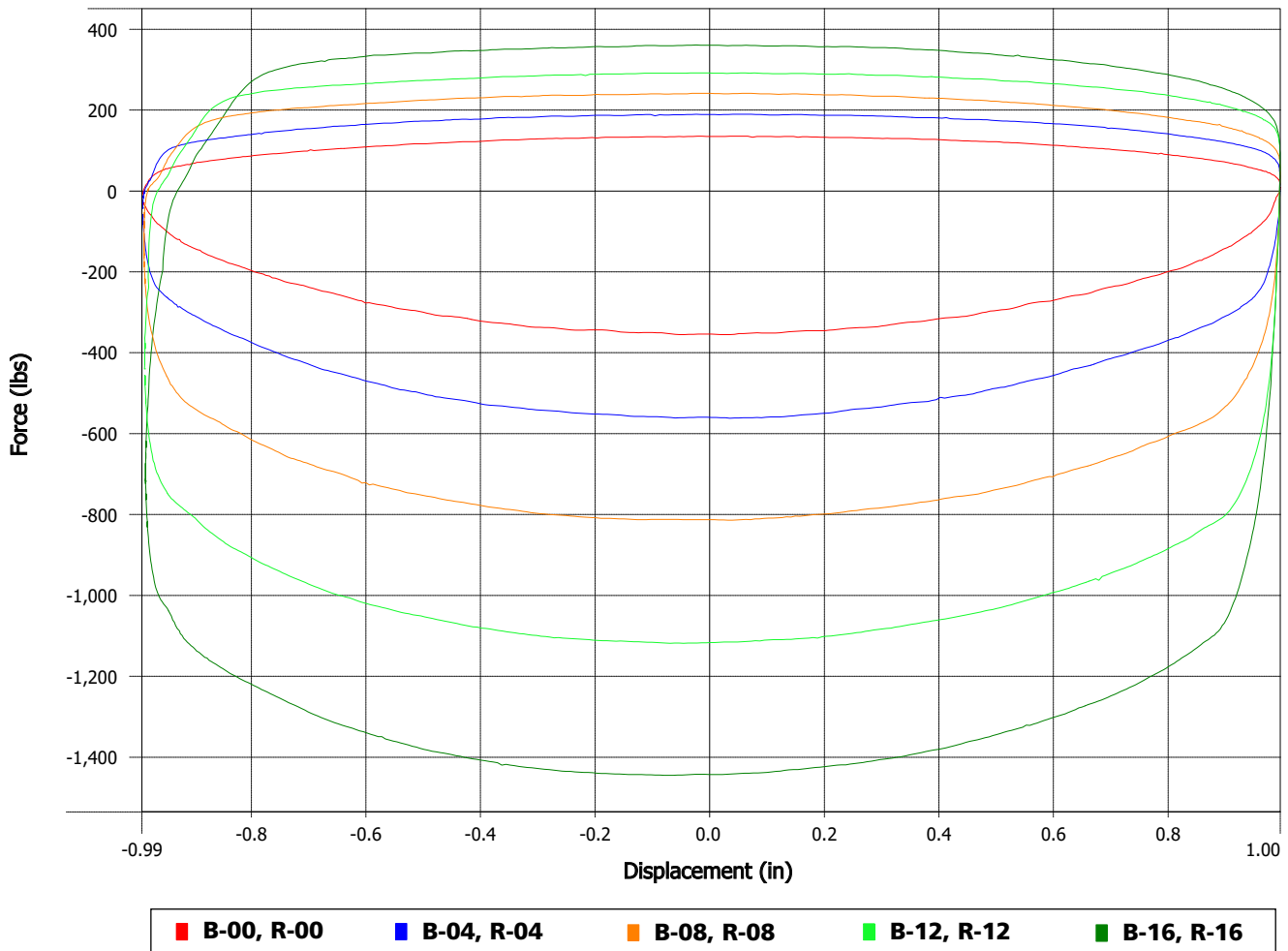
### Adjustment

- Dyno-tested and calibrated to assure uniform performance
- Double external adjustment with 16-steps each
- Clearly marked adjuster knobs and body

Part Number	Total Travel	Compressed Length <sup>1</sup>	Extended Length <sup>1</sup>	Minimum Ride Height	Maximum Ride Height	Spring Length	Usage
VAS 11211-43HBR	4.25	10.05	14.30	11.75	12.60	9	Rear
VAS 11211-51HBR	5.15	10.95	16.10	13.01	14.04	12	Rear
VAS 11211-72HBR	7.15	12.95	20.10	15.81	17.24	14	Rear
VAS 11211-83HBR	8.25	14.05	22.30	17.35	19.00	14	Rear
<b>NOTE:</b>	1 - Length of shock is the measured distance between centers of mounting eyes.						

Note: Sold only in pairs

### Force Vs. Displacement



**NOTE:** Graph represents range of valving settings, shown every four clicks. There are actually 256 setting combinations.

## VariShock Coil-Over Overview

Designed from a clean sheet of paper, VariShock is the first affordable coil-over to combine sophisticated shock valving with all-new, American-made components. Never before have so much performance, repeatability, and adjustability been offered at such an affordable price.

## Double-Adjustable Tuning

VariShock's double-adjustable QuickSet 2 design is easy to tune with 256 different settings attainable by rotating two fully accessible, 16-position knobs. All adjustments are made in seconds without removing or unbolting the VariShock. One knob sets the bump (compression) range; the other sets rebound (extension). Both knobs are laser-etched with directional arrows and "plus/minus" symbols to indicate the desired adjustment. Additional arrows on the QuickSet 2's base clarify which knob controls bump and which controls rebound.



## Enhanced Suspension Control

The double-adjustable QuickSet 2 allows independent control of vehicle separation (rebound) and settling (bump). This enables tuning the suspension to track conditions for ultimate performance.

## Unprecedented Repeatability

Repeatability is unmatched due to high-quality components, in-house assembly, and dyno-testing of every VariShock unit. Unlike competitors using cheaper offshore or OEM parts, VariShocks are engineered systems of premium American-made components tailored to specific needs. They feature "Deflective Disk Valving" in the pistons to eliminate spring fatigue, 5/8" centerless ground hard chrome steel piston rods for wear resistance, and are rebuildable if bent or damaged. Custom valving is also available.

## Compact and Lightweight Design

A revolutionary adjustment mechanism allows the billet-aluminum body to be shorter and lighter, providing more clearance around the eyes and greater travel within any shock length. Two separate eye types maximize mounting benefits: spherical-bearing eyes use a COM-8 1/2" bore x 1-1/8" wide high-misalignment bearing with a Teflon liner, offering superior clearance, while urethane ends have 350% more material than competitors for better load distribution and use premium urethane for higher load capacity and longer life. Urethane ends are 1-1/4" wide and accept 1/2" bolts.

## Improved Durability

Durability is enhanced in three key areas:

- Custom-designed internal shaft seals ensure a longer-lasting seal to keep dirt out.
- Unique machined internal connections and added seals prevent bypassing, ensuring repeatable control at low piston speeds.
- Elimination of internal leakage improves damping consistency.

## Innovative Spring Seat Design

A one-piece lower spring seat eliminates the need for a lock nut, secured by two ball locks that press into grooves on the reservoir body. The seat is easily adjustable with an Allen wrench and accepts 2-1/2"-ID coil springs.



## Exclusive Spanner Wrench

An optional spanner wrench with four tangs engages the lower spring seat in four places, preventing slippage unlike common single-point spanners, ensuring secure and easy adjustments.

# NOTES:

All prices subject to change. Current pricing available at [www.Varishock.com](http://www.Varishock.com).



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