

## ADVANCED HRS

As an integral part of Monroe® Ride Refine™ systems, the Advanced Hydraulic Rebound System offers a revolutionary solution for absorbing peak loads and minimizing noises during high bumps and deep potholes. Ensuring optimal energy absorption without compromising comfort and increasing body control.

### KEY FEATURES:

- **Effectiveness:** High damping forces for optimal load absorption. The additional damping force is generated thanks to a swaged pressure tube with 6 dents and a bleed area in the sealing ring which are both tunable design features.
- **Compact and innovative Design:** The lightweight design of the system incorporates an inventive grooved and swaged pressure tube, coupled with a high-strength sealing ring, ensuring a seamless transition to HRS activation.
- **Improved Tunability:** Tailor the system to meet the unique load requirements of any vehicle, delivering outstanding ride comfort in all situations.
- **Durability:** Built to withstand rigorous conditions for long-lasting performance.

### ADVANCED HYDRAULIC REBOUND STOP SOLUTION:

- Key product for BEV and heavy vehicles to manage the higher loads while not impacting the stroke.
- **Avoid Topping Noise:** Experience noise reduction even at high loads at maximum damper extension.
- Highly tunable and durable.

### HOW THE SYSTEM WORKS:

The design allows for a more progressive and tunable response across a broad range, minimizing the rebound load while maintaining peak performance.

1. HRS activation point defined by Swage Pressure Tube Length
2. HRS progressivity defined by the PT grooves dimensions
3. HRS peak force defined by the sealing ring gap when is the full engage in the HRS pressure tube diameter

