

# HAYES TRAIL GUIDE

INSTRUCTION MANUAL FOR IMPROVING  
YOUR MOUNTAIN BICYCLING EXPERIENCE



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## MRD Infinite Rate Tune (IRT)

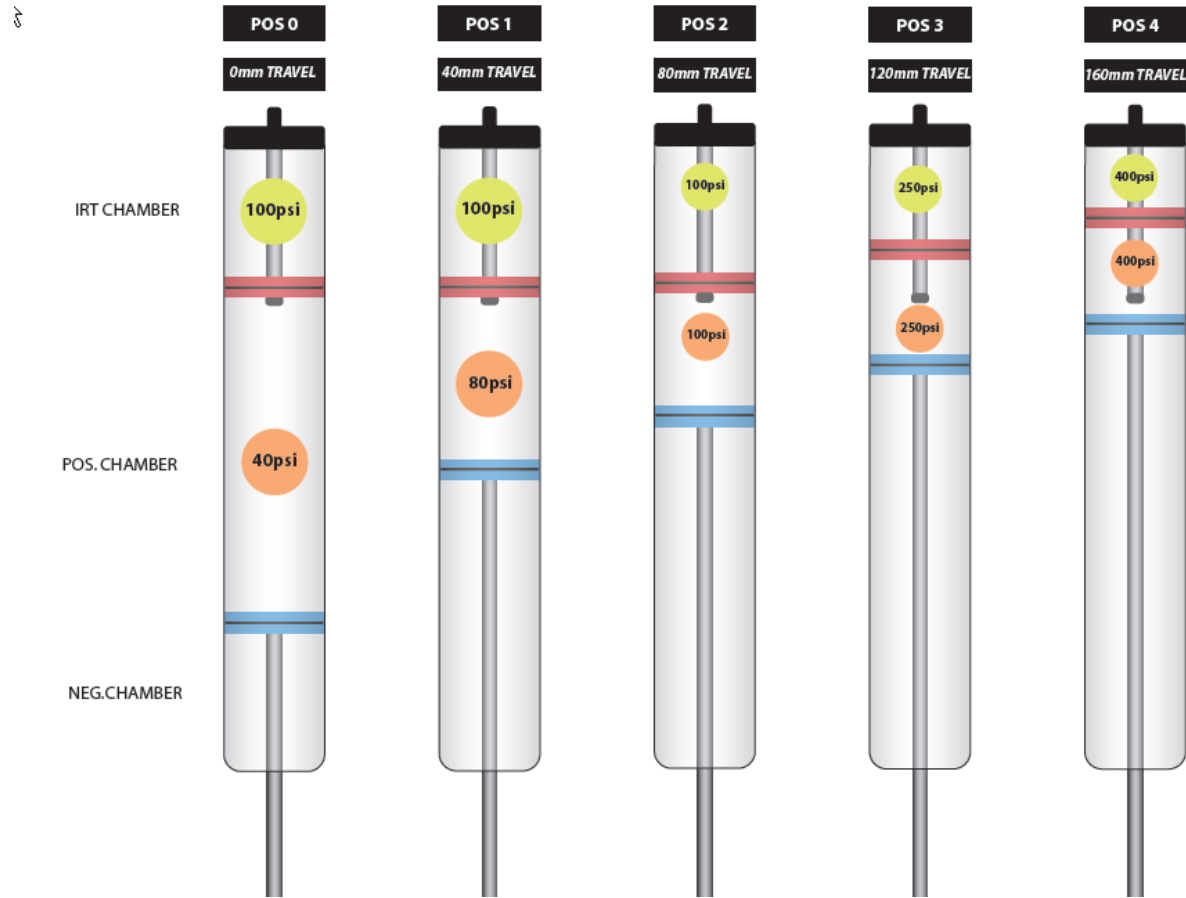
Infinite Rate Tune allows the rider to control mid-stroke rate independent from bottom-out. The closest thing available to the feel of a perfectly chosen coil spring without the additional weight.



**AVAILABLE FOR:**  
MATTOC PRO / EXPERT  
DORADO PRO / EXPERT



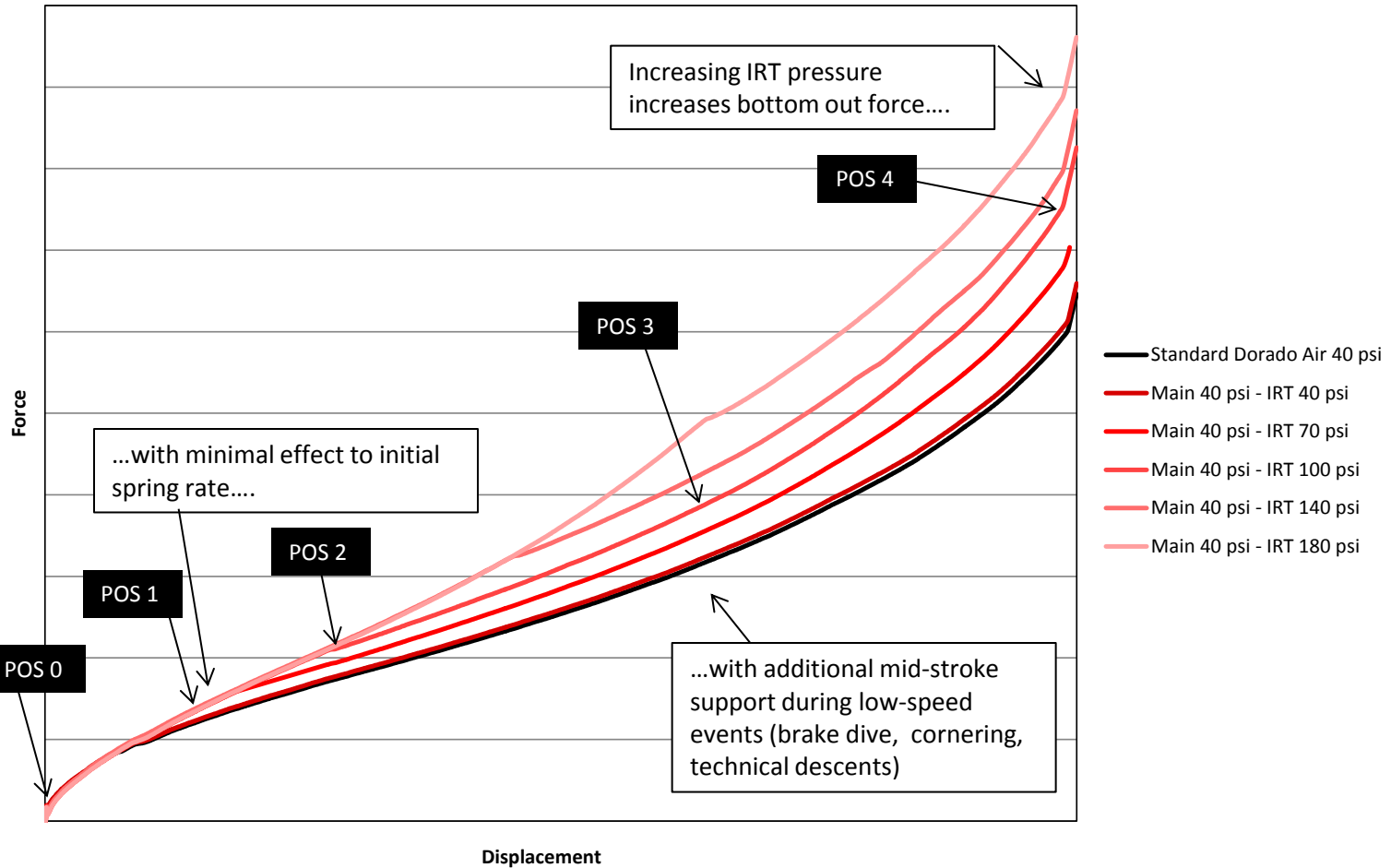
## MRD Infinite Rate Tune (IRT) – How it works !





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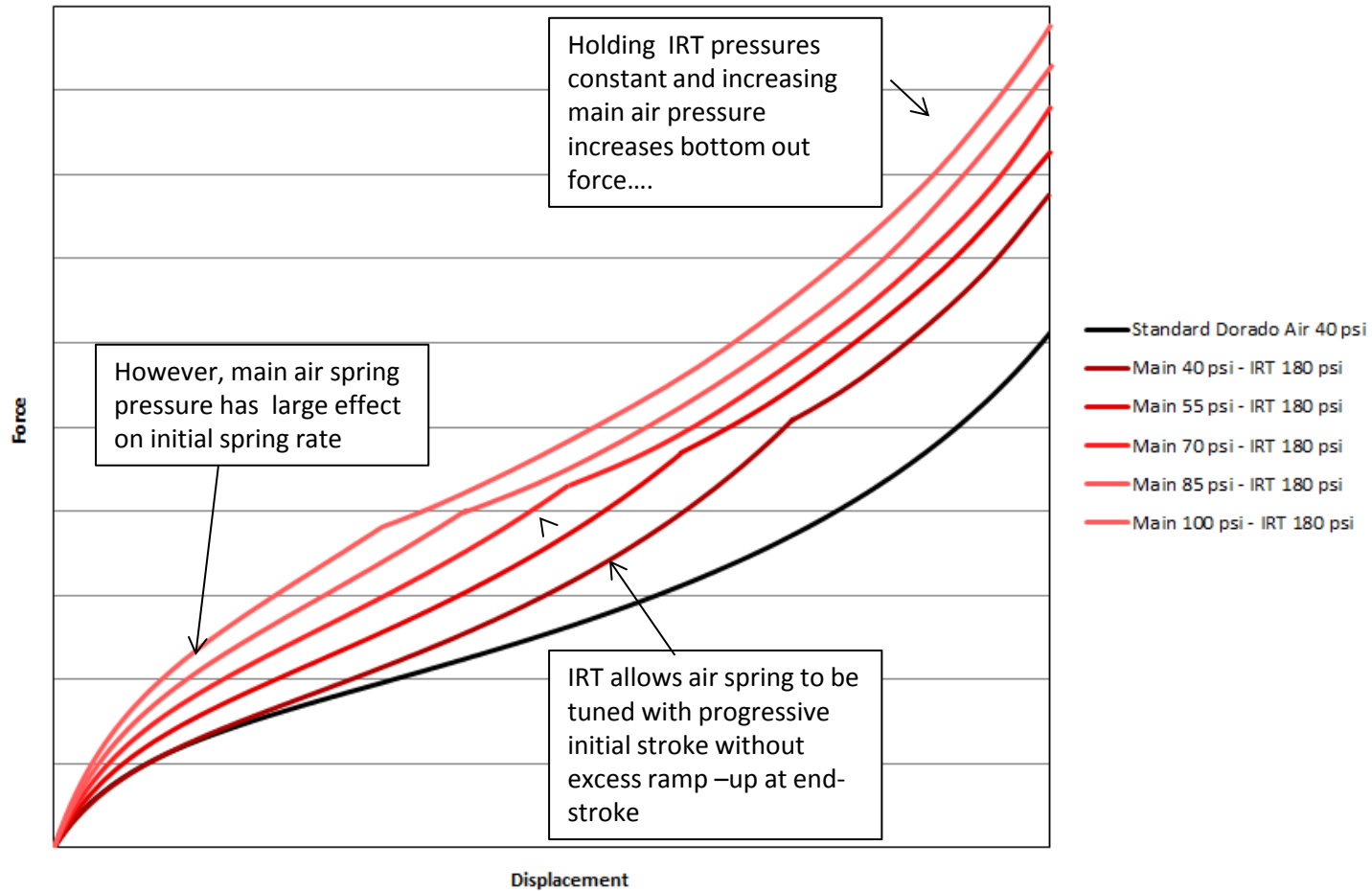
## Dorado Air Spring 40 psi / IRT Pressure Increasing





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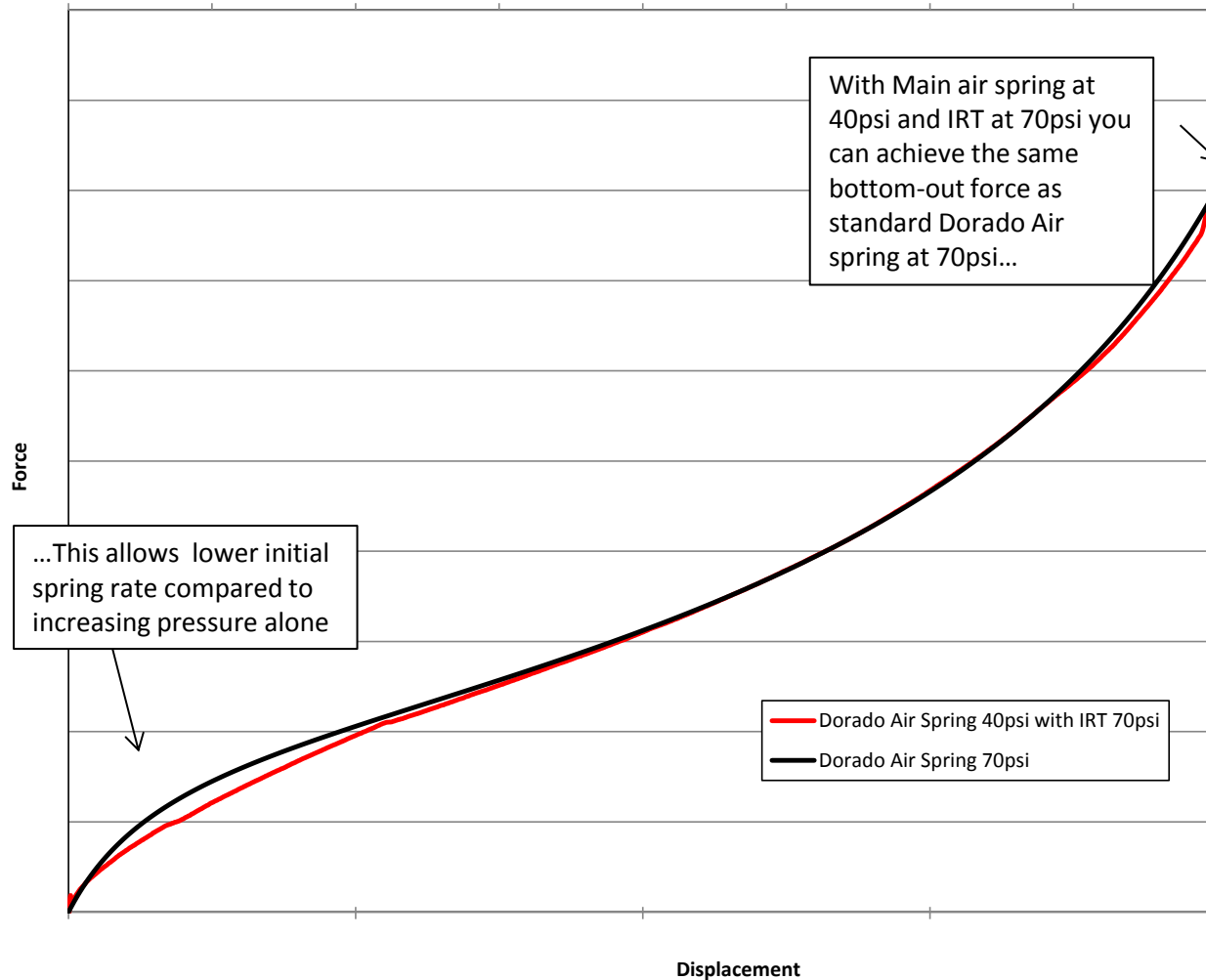
## Dorado Air Spring with IRT, Increasing Main Air Chamber Pressure





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## Dorado Air Spring with IRT, Equal Bottom-out Force





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**Comparing Dorado Standard Spring with**

**IRT (Initial Rate Tune)**

**And**

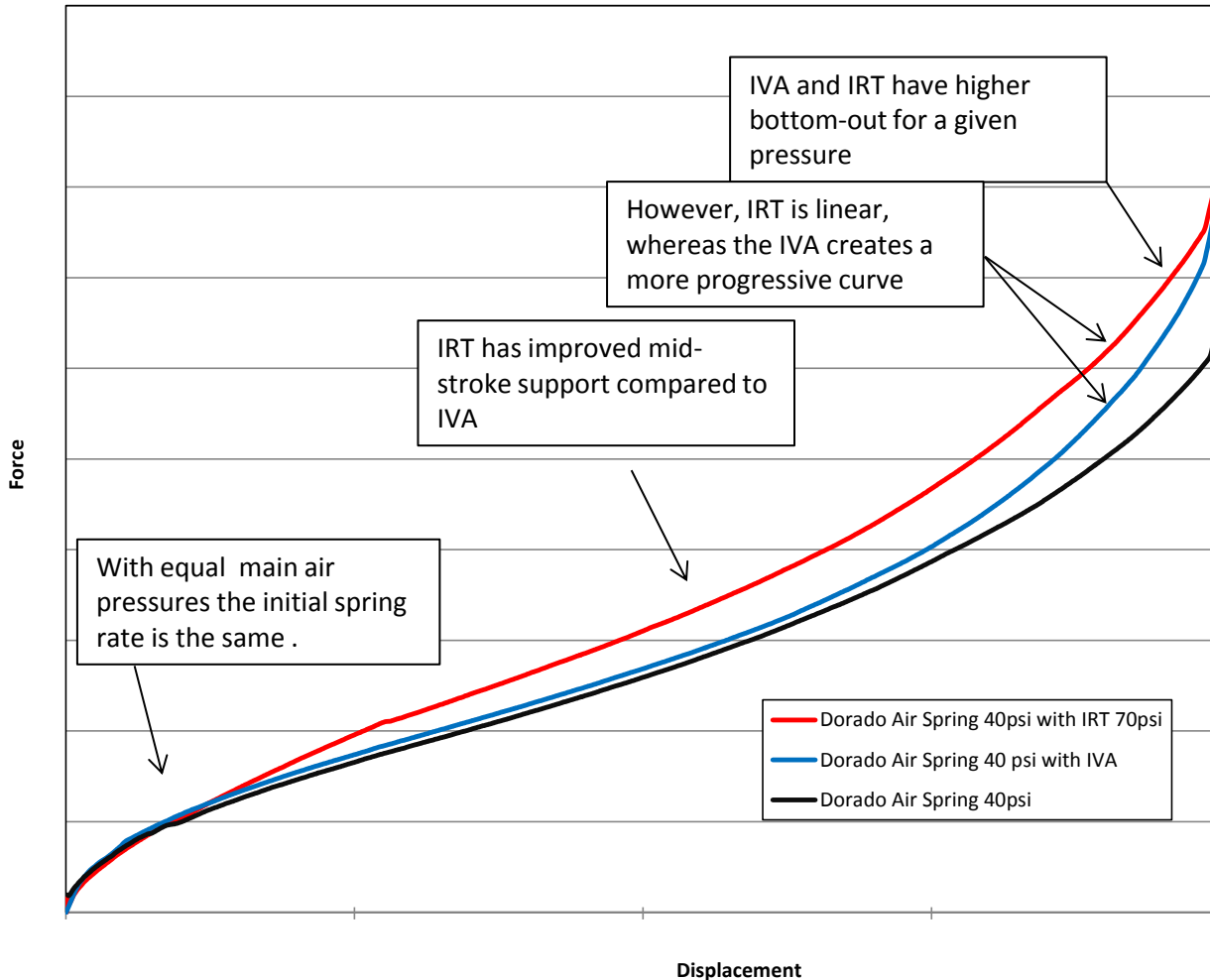
**IVA (Incremental Volume Adjust)**





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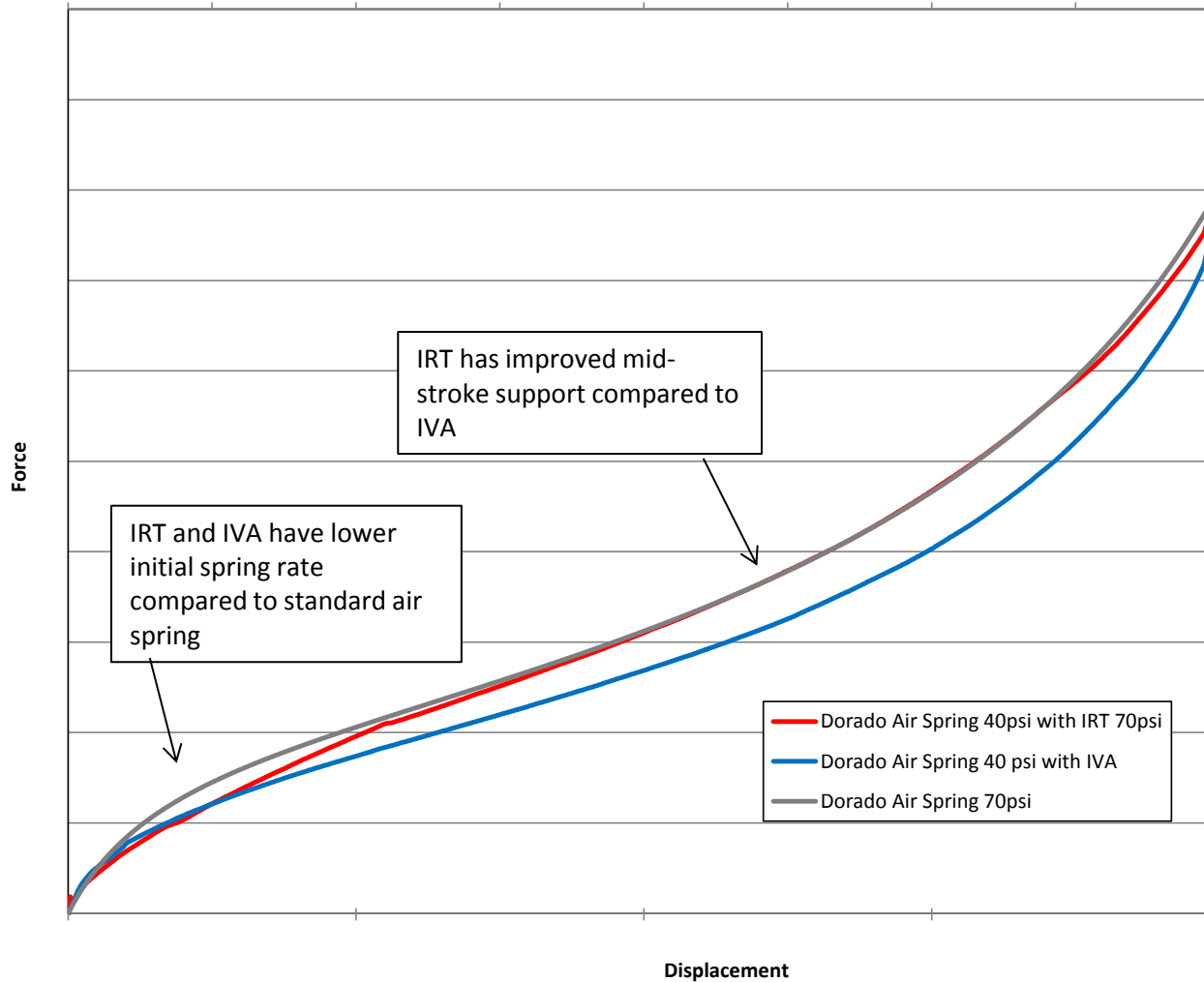
## Dorado Air Spring with IVA or IRT, Equal Pressure





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## Dorado Air Spring with IVA or IRT, Equal Bottom-out Force





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## What's the bottom line?

### STD (Standard) vs. IVA (Incremental Volume Adjust)

IVA adds end stroke control and a simple tuning ability.

### STD (Standard) vs. IRT (Infinite Rate Tune)

IRT offers better support with low set-pressures while maintaining the linearity to bottom.

### IVA (Incremental Volume Adjust) vs. IRT (Infinite Rate Tune)

Key advantage of IRT is it maintains or even improves small bump compliance and builds good support in the mid-stroke (cornering and braking loads) while keeping linearity thru bottom-out.

IRT requires more user knowledge, intended for the sophisticated rider/racer.





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## What technology is best for me?

### IRT (Infinite Rate Tune)

IRT Allows rider to maintain mid-stroke support while reducing initial spring force.

#### Who is it for:

Riders and racers who have more extensive understanding of air spring function who want to custom tune spring rate for more sensitive initial stroke AND more supportive mid-stroke.

### IVA (Incremental Volume Adjust)

IVA allows rider to tune end-stroke control simply by adjusting air volume using integrated piston spacers.

#### Who is it for:

Riders who want to custom tune the air spring for more sensitive initial stroke OR more progressive end-stroke.



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