

ssue 6.2011 Specifications subject to change

**Function:** The stepless adjustment of the damping rate is achieved by pulling (or pushing) the piston rod to its fully extended (or compressed) position and then turning the piston rod.

**Operating fluid:** Hydraulic oil **Mounting:** In any position. End fittings must be positively secured to prevent unscrewing.

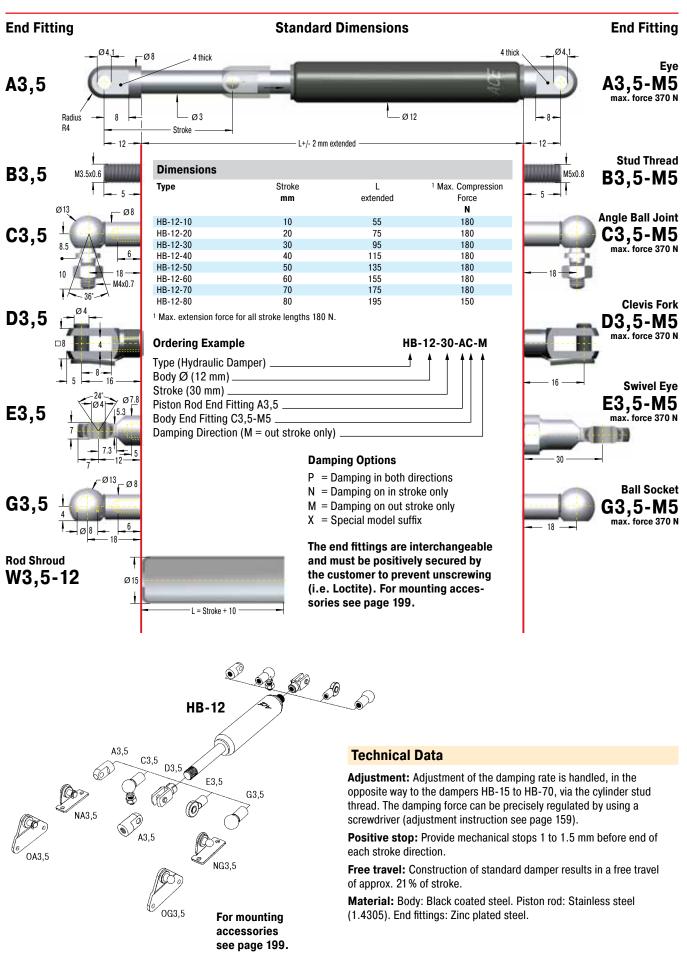
**Operating temperature range:** -20 °C to 80 °C

**On request:** Special lengths, alternative seals and end fittings.



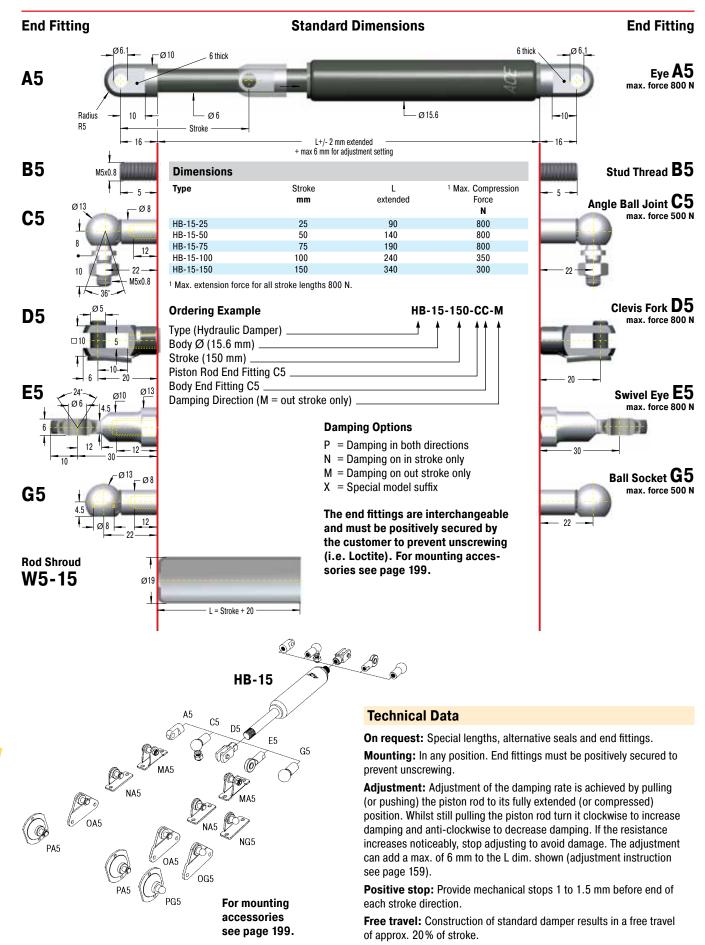
# Hydraulic Dampers HB-12

Adjustable (Compression and Extension Forces 20 N to 180 N)





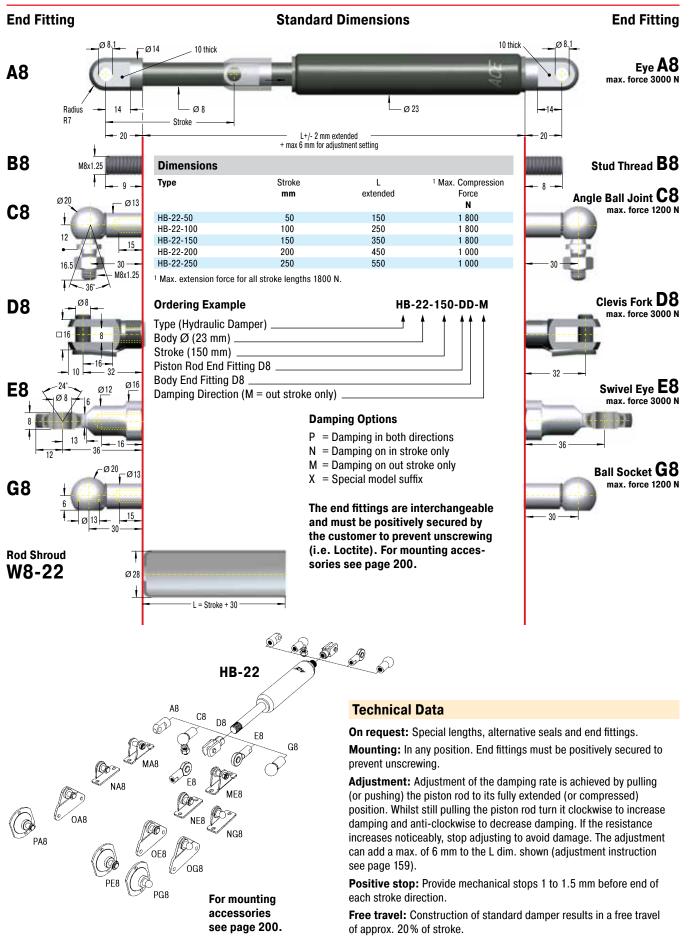
Adjustable (Compression and Extension Forces 20 N to 800 N)



**Material:** Body: Black coated steel. Piston rod: With wear-resistant coating. End fittings: Zinc plated steel.



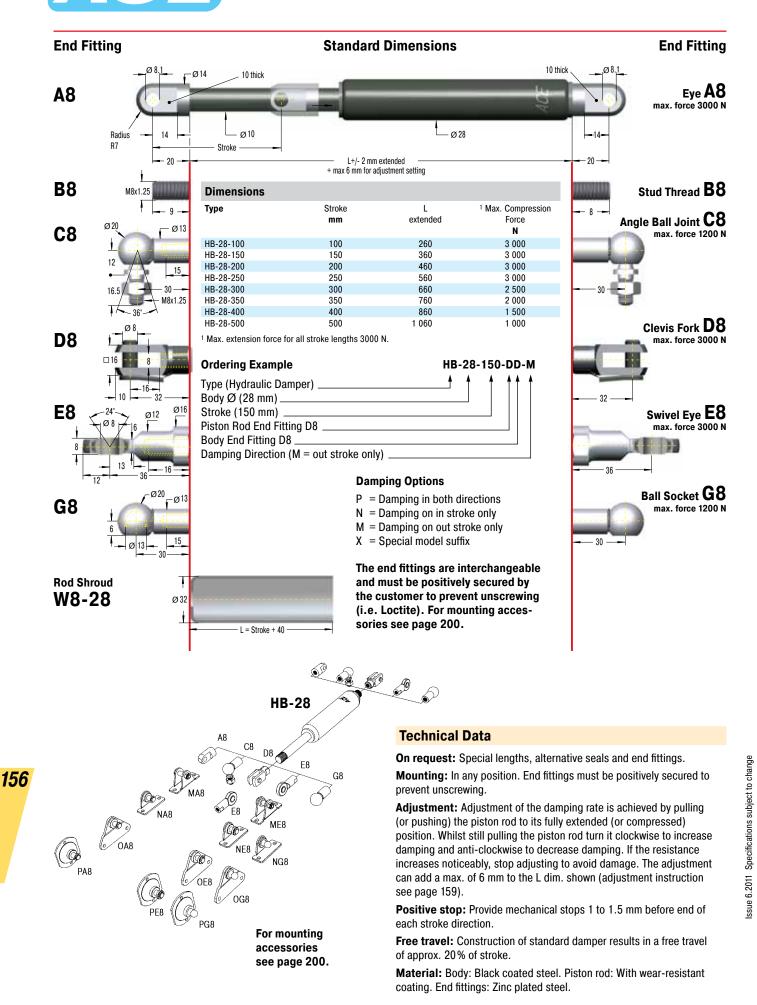
Adjustable (Compression and Extension Forces 30 N to 1800 N)



Material: Body: Black coated steel. Piston rod: With wear-resistant coating. End fittings: Zinc plated steel.



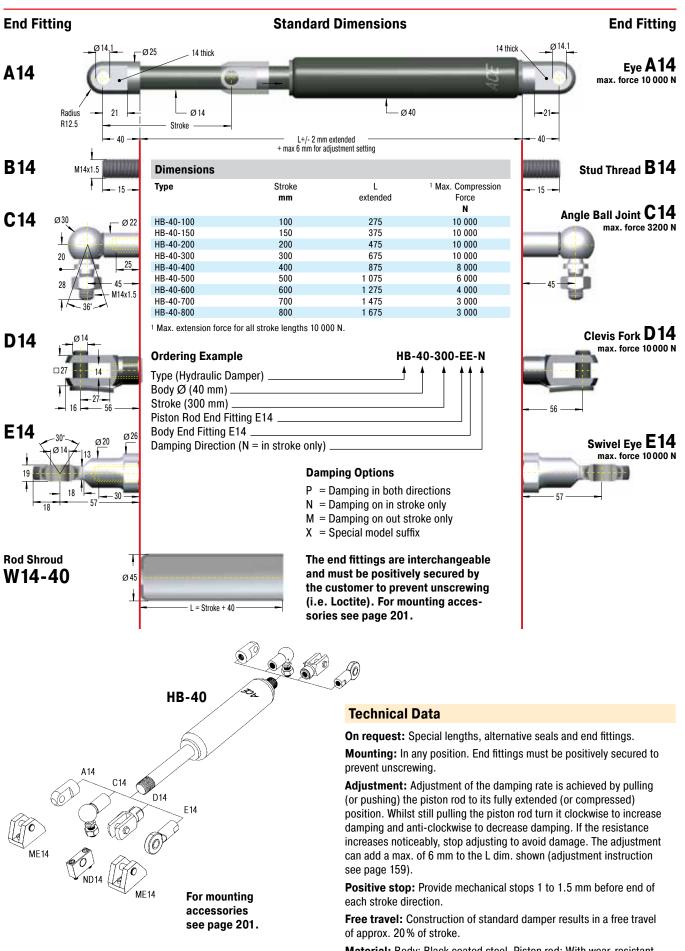
Adjustable (Compression and Extension Forces 30 N to 3000 N)





## Hydraulic Dampers HB-40

Adjustable (Compression and Extension Forces 30 N to 10 000 N)



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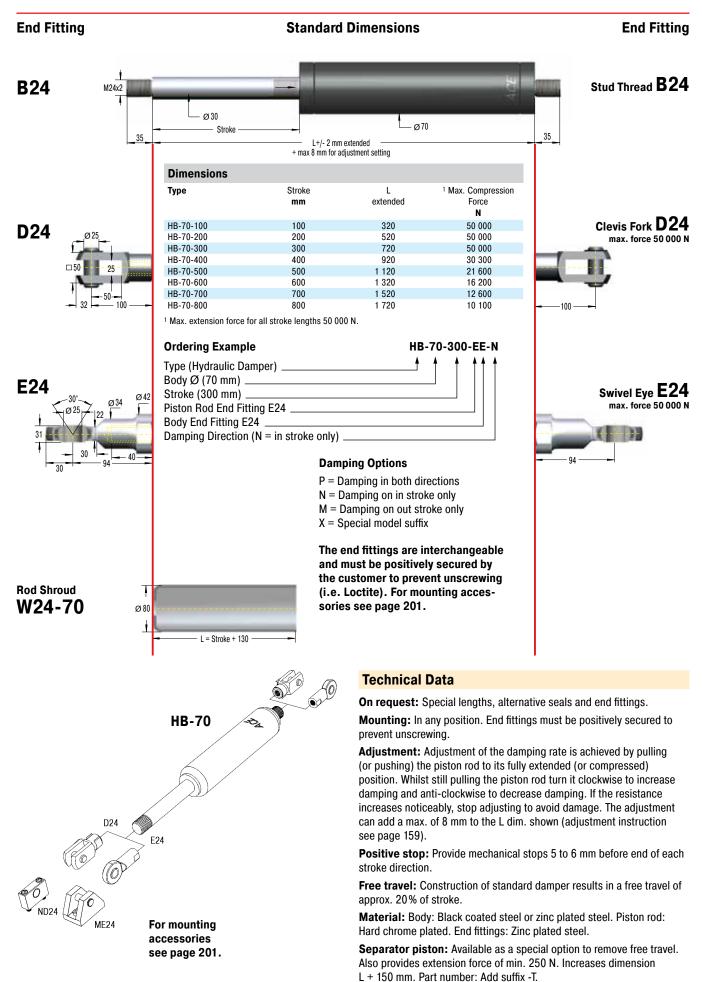
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## Hydraulic Dampers HB-70

Adjustable (Compression and Extension Forces 2000 N to 50 000 N)





Adjustment Instructions

### Adjustment Instructions for HB-15 to HB-70 and HBS-28 to HBS-70



Adjustment only possible when piston rod is fully extended or fully compressed.



soft damping

Rotate rod anti-clockwise 🔿 for higher velocity

Rotate rod clockwise 🔿 for slower velocity

strong damping

1. Hold outer body.

- 2. a) When piston rod is fully extended: Adjust damping by turning the piston rod as shown in the picture. Whilst rotating, pull the piston rod gently, to ensure the adjuster locates in the end cap.
  - b) When the piston rod is fully compressed: Adjust the damping by turning the piston rod as shown in the picture. Whilst rotating, push the piston rod gently, to ensure the adjuster locates in the end cap.
- 3. When resistance is felt when rotating the piston rod, stop turning. You will be at the end of the adjustment. NOTE: Do not rotate piston rod too quickly as damage could occur.
- 4. Check the damping, if required repeat step 1 to 3.
- 5. On all versions with a separator piston (type "T") adjustment is only possible when the piston rod is extended (adjustment 2a).

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### **Adjustment Instructions for HB-12**

