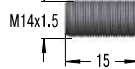
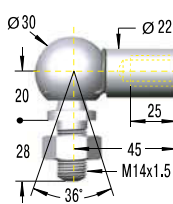
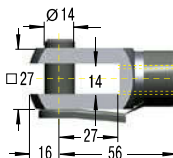
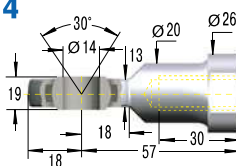


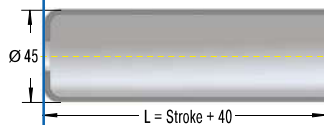
**End Fitting**
**Standard Dimensions**
**End Fitting**
**A14**

**Eye A14**  
max. force 10,000 N

**B14**

**Stud Thread B14**
**C14**

**Angle Ball Joint C14**  
max. force 3,200 N

**D14**

**Clevis Fork D14**  
max. force 10,000 N

**E14**

**Swivel Eye E14**  
max. force 10,000 N

**Rod Shroud W14-40**

**Performance and Dimensions**

TYPES	Stroke mm	L extended mm	<sup>1</sup> Compression force max. N
HB-40-100	100	275	10,000
HB-40-150	150	375	10,000
HB-40-200	200	475	10,000
HB-40-300	300	675	10,000
HB-40-400	400	875	8,000
HB-40-500	500	1,075	6,000
HB-40-600	600	1,275	4,000
HB-40-700	700	1,475	3,000
HB-40-800	800	1,675	3,000

<sup>1</sup> Max. extension force for all stroke lengths 10,000 N.

**Ordering Example**

Type (Hydraulic Damper) → **HB-40-300-EE-N**  
 Body Ø (40 mm) →  
 Stroke (300 mm) →  
 Piston Rod End Fitting E14 →  
 Body End Fitting E14 →  
 Damping Direction (N = in stroke only) →

**Model Type Prefix**

P: Damping in both directions  
 N: Damping on in stroke only  
 M: Damping on out stroke only  
 X: Special model suffix

**Mounting accessories see from page 200.**

**Technical Data**

**Compression and extension force:** 30 N to 10,000 N

**Free travel:** Construction of the damper results in a free travel of approx. 20 % of stroke.

**Separator piston:** Extension force 150 N; dimension L = 2.32 x stroke + 82 mm. Part number: add suffix -T.

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

**Adjustment:** Achieved by turning the piston rod in its fully extended or fully compressed position.

Clockwise rotation = increase of the damping

Anti-clockwise rotation = decrease of the damping

Damping force adjustable before installation. Adjustment can add a max. of 6 mm to the L dimension.

**Positive stop:** External positive stops 1 mm to 1.5 mm before the end of stroke provided by the customer.

**Material:** Outer body: coated steel; Piston rod: steel with wear-resistant coating; End fittings: zinc plated steel

**Mounting:** in any position

**Note:** Increased break-away force if unit has not moved for some time.

**End fittings:** They are interchangeable and if necessary must be positively secured by the customer to prevent unscrewing.

