180

Adjustable, Without Free Travel

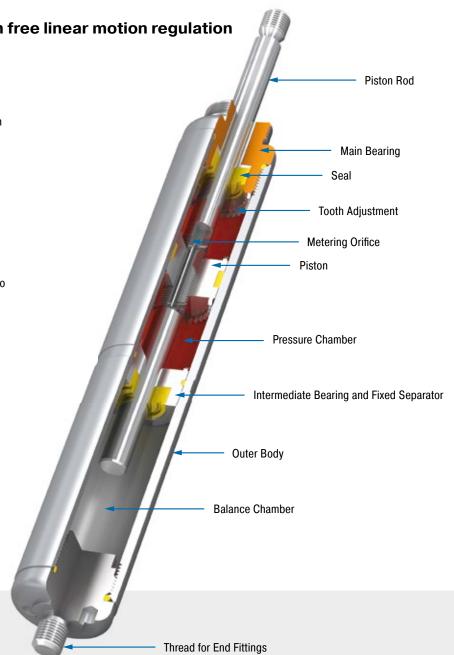
HBS-28 to HBS-70

Hydraulic Dampers Direction change backlash free linear motion regulation

Damping either in one or both directions: The HBS models of hydraulic dampers are made in a slim gas spring design and are compact and high in performance. Maintenance-free and ready-to-install they allow precise setting of retraction and extension speeds without any free travel when changing direction.

These hydraulic dampers offer constant feeding rates and can be finely tuned via the screw adjustment. A control segment on the piston makes the adjustment at the end position child's play. Thanks to many add-on components the assembly is easy to mount, so that the damper can be universally deployed for damping back and forth swinging masses, such as in power or free conveyors.

In addition to the automotive sector, the application areas are industrial applications, classic mechanical engineering, the electronics and furniture industry and medical technology.



Technical Data

Compression and extension force: 30 N to 40,000 N

Outer body diameter: Ø 28 mm to Ø 70 mm

Piston rod diameter: Ø 8 mm to Ø 30 mm

Lifetime: Approx. 10,000 m

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

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

Positive stop: External positive stops 1 mm to 6 mm before the end of stroke provided by the customer.

Damping medium: Hydraulic oil

Material: Outer body: Zinc plated or coated steel; Piston rod: Hard chrome plated steel; End fittings: Zinc plated steel

Mounting: In any position

Application field: Oscillation insulation, Chairlift impact control, Fairground rides, Cylinder speed controls

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

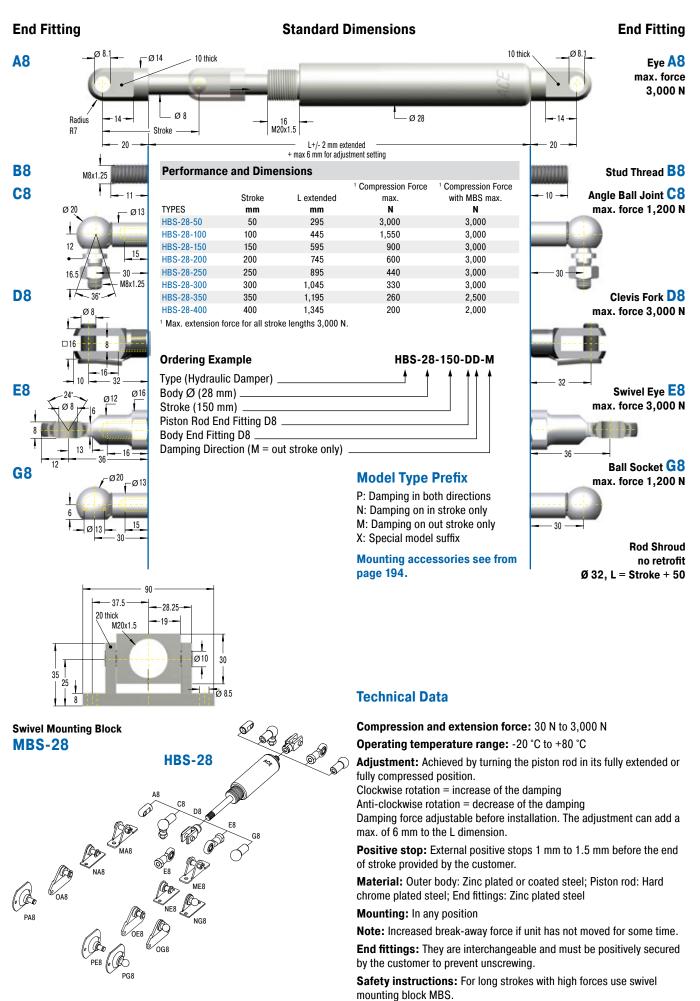
End fittings: They are interchangeable and must be positively secured by the customer to prevent unscrewing.

Safety instructions: For long strokes with high forces use swivel mounting block MBS.

On request: Special oils and other special options. Alternative accessories available on request.



Adjustable, Without Free Travel, Compression and extension force 30 N to 3,000 N



181

A10

. 0E10

MA10

PF10

C10

D10

ME10

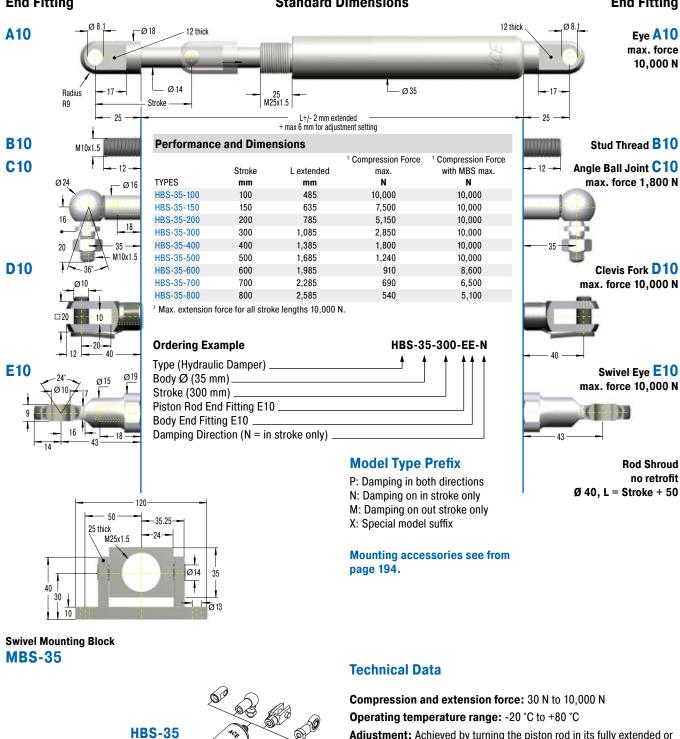


Adjustable, Without Free Travel, Compression and extension force 30 N to 10,000 N

End Fitting

Standard Dimensions





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. The 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: Zinc plated or coated steel; Piston rod: Hard chrome plated steel; 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 must be positively secured by the customer to prevent unscrewing.

Safety instructions: For long strokes with high forces use swivel mounting block MBS.



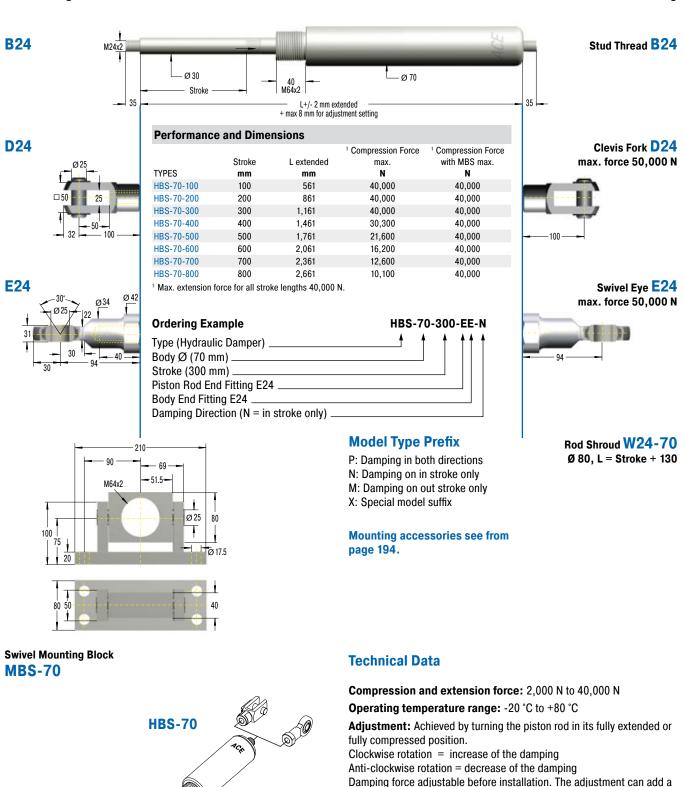
Adjustable, Without Free Travel, Compression and extension force 2,000 N to 40,000 N

End Fitting

Standard Dimensions

End Fitting

183



D24

MF24

E24



max. of 8 mm to the L dimension.

stroke provided by the customer.

by the customer to prevent unscrewing.

Mounting: In any position

Positive stop: External positive stops 5 mm to 6 mm before the end of

Material: Outer body: Zinc plated or coated steel; Piston rod: Hard

Note: Increased break-away force if unit has not moved for some time. **End fittings:** They are interchangeable and must be positively secured

Safety instructions: For long strokes with high forces use swivel

chrome plated steel; End fittings: Zinc plated steel