

HBD-50 to HBD-85

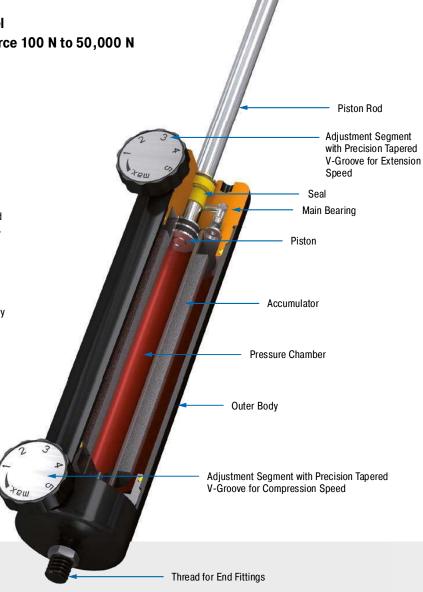
Regulation at the highest level

Adjustable, Without Free Travel
Compression and extension force 100 N to 50,000 N
Stroke 50 mm to 700 mm

Motion control in both directions: The HBD model of hydraulic dampers can be adjusted independently in both the push and pull direction. These maintenance-free, ready-to-install and closed systems leave no prayers unanswered as far as the setting of retraction and extension speeds are concerned. In addition each damper works without any free travel therefore the flow of oil can be regulated exactly via the two precision metering orifices.

Adjustment can be made once installed and even when moving through stroke. The coated body and hard-chromed piston rods stand for quality and long service life. The variety of mounting accessories makes assembly easy and the high-end hydraulic dampers universally usable.

HBD hydraulic dampers are used in the automotive, in industry, mechanical engineering and medical technology.



Technical Data

Compression and extension force: 100 N

to 50,000 N

Outer body diameter: \emptyset 50 mm to \emptyset 85 mm Piston rod diameter: \emptyset 10 mm to \emptyset 20 mm

Lifetime: Approx. 10,000 m

Operating temperature range: 0 °C to 65 °C

Adjustment: Steplessly adjustable

Positive stop: External positive stops 1 mm to 3 mm before the end of stroke provided by

the customer.

Damping medium: hydraulic oil

Material: Outer body: coated steel; Piston rod: hard chrome plated steel; End fittings: zinc plated steel

Mounting: in any position

Application field: sports equipment,

rehabilitation technology, conveyor technology

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

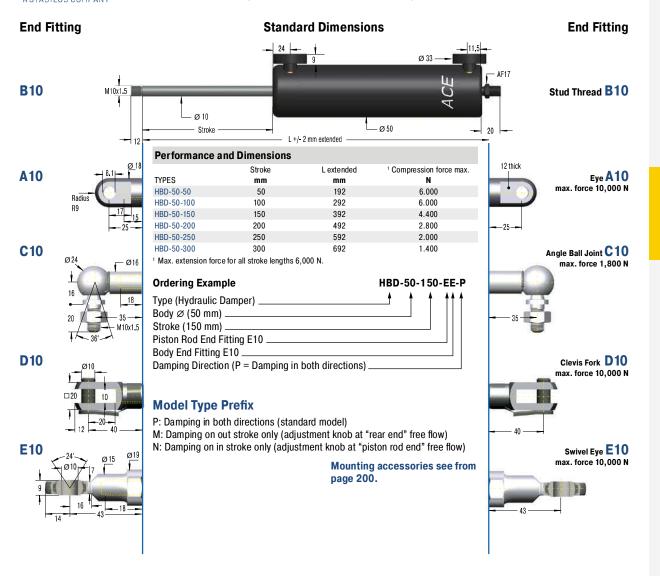
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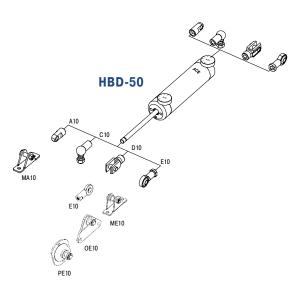
End fittings: They are interchangeable and if necessary must be positively secured by the

customer to prevent unscrewing.

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

Adjustable, Without Free Travel, Compression and extension force 100 N to 6,000 N





Technical Data

Compression and extension force: 100 N to 6,000 N

Operating temperature range: 0 °C to 65 °C

Adjustment: Steplessly adjustable

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: Hard chrome plated

steel; End fittings: Zinc plated steel

Mounting: In any position

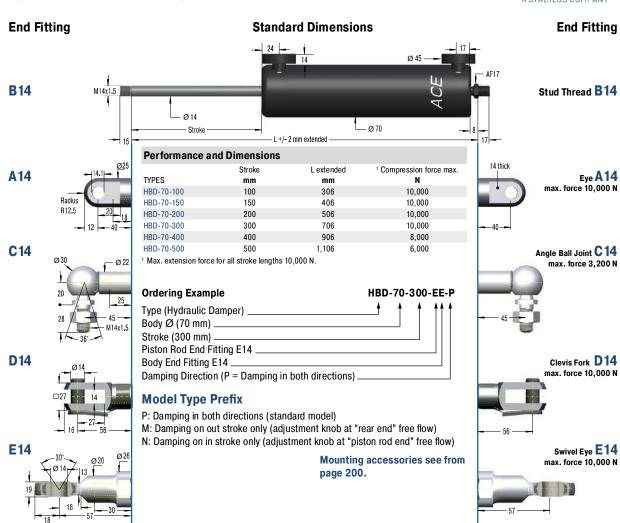
Note: Increased break-away force if unit has not moved for some time.

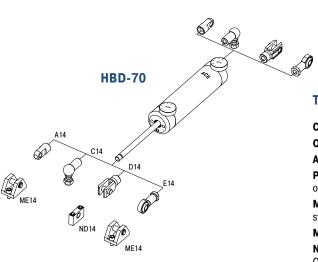
One locknut included.

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

ACE

Adjustable, Without Free Travel, Compression and extension force 150 N to 10,000 N





Technical Data

Compression and extension force: 150 N to 10,000 N

Operating temperature range: 0 °C to 65 °C

Adjustment: Steplessly adjustable

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: Hard chrome plated

steel; End fittings: Zinc plated steel

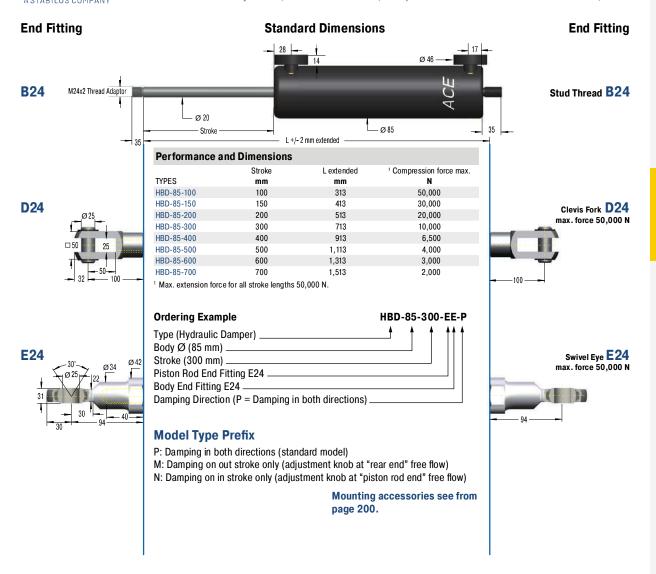
Mounting: In any position

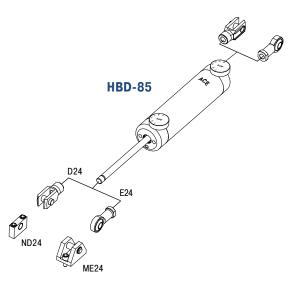
Note: Increased break-away force if unit has not moved for some time.

One locknut included.

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

Adjustable, Without Free Travel, Compression and extension force 150 N to 50,000 N





Technical Data

Compression and extension force: 150 N to 50,000 N

Operating temperature range: 0 °C to 65 °C

Adjustment: Steplessly adjustable

Positive stop: External positive stops 2 mm to 3 mm before the end of

stroke provided by the customer.

Material: Outer body: 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.

Thread adaptor for piston rod from M16 to M24 included.

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