

Hydraulic Dampers

Multi-talent in speed control

The hydraulic dampers are similar in appearance to the ACE industrial gas springs but are adjusted in the end position and work differently to the DVC family with individual speed adjusters for the push and pull direction. This provide users with the maximum flexibility.

Whether used as drive compensation or safety elements, the retraction and extension speed of these ACE solutions can always be precisely set. This means that the speed of movement can be controlled, synchronisation regulated in both directions and pivoting loads can be compensated. Depending on the model, the push and pull forces are between 30 N and 40,000 N. These maintenance-free, ready-to-install products are available in body diameters of 12 mm to 70 mm and in stroke lengths up to 800 mm.





Hydraulic Dampers





Adjustable, Without Free Travel

Individual speed adjustment in both directions

Cylinder speed controls, Absorption control, Finishing and processing centres



HBD-50 to HBD-85 Page 180

Adjustable, Without Free Travel Regulation at the highest level

Sports equipment, Rehabilitation technology, Conveyor technology



HBS-28 to HBS-70

Page 184

Adjustable, Without Free Travel

Direction change backlash free linear motion regulation Oscillation insulation, Chairlift impact control, Fairground rides,

Cylinder speed controls



HB-12 to HB-70 Page 188

Adjustable 4 8 1

Linear motion control

Conveyor systems, Transport systems, Furniture industry, Locking systems





TD, TDE Page 196

Adjustable

The safe way to close doors Lift doors, Automatic doors, Doors

Constant speed rates

High quality and long lifetime

Easy to mount





DVC-32

Individual speed adjustment in both directions

Adjustable, Without Free Travel

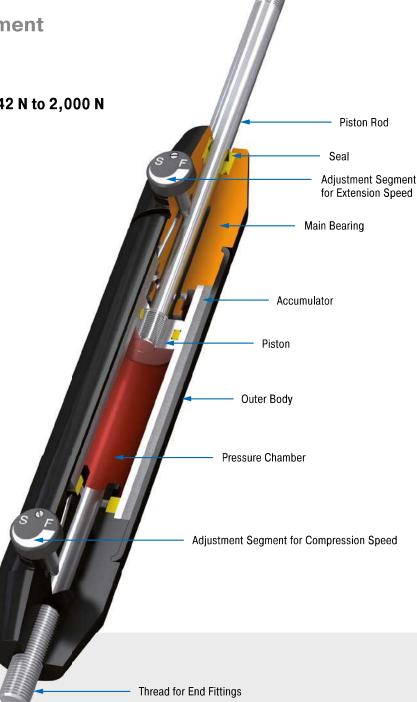
Compression and extension force 42 N to 2,000 N $\,$

Stroke 50 mm to 150 mm

Can be regulated separately in any stroke position: The hydraulic dampers in the DVC-32 model are the first model to have the ability to have the in and out speeds adjusted independently from the outside and therefore more precisely. With their individual adjustment segments for the push and pull direction as well as the double-sided action, these are suitable as safety or control elements.

The great number of mounting accessories makes assembly of these hydraulic dampers by ACE easier and allows these maintenance-free, ready-to-install and self-contained systems universally applicable. Qualitatively high grade, and at the same time simple to use; one of their uses is to absorb swinging loads.

These machine elements are used, for one, in the automotive sector and industrial applications as well as in mechanical engineering and the electronics industry.



Technical Data

Compression and extension force: 42 N to

2,000 N

Outer body diameter: Ø 32 mm Piston rod diameter: Ø 8 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 1.5 mm before the end of stroke provided by

the customer.

Damping medium: Automatic Transmission

Fluid (ATF)

Material: Outer body: Coated aluminium; Piston rod: Hard chrome plated steel; End fittings: Zinc plated steel

Mounting: In any position

Application field: Cylinder speed controls, Absorption control, Finishing and processing centres

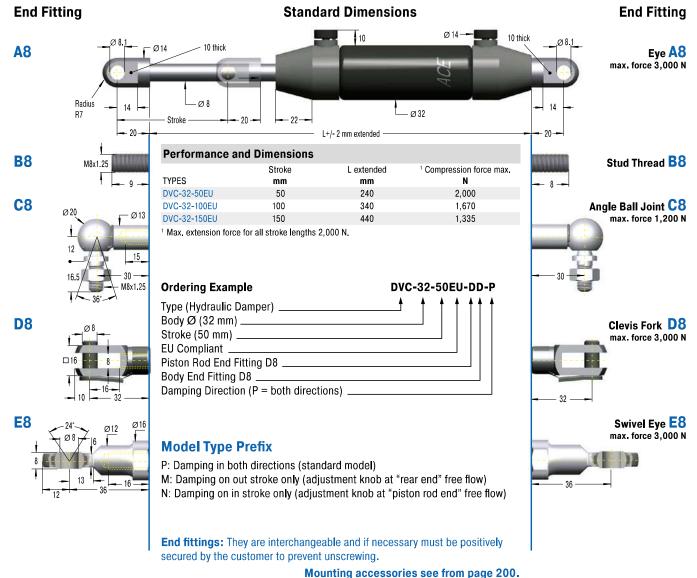
Note: Increased break-away force if unit has not moved for some time. Damping force can be adjusted after installation.

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.

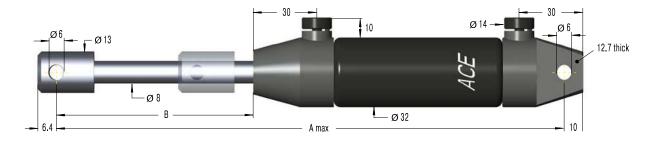


Adjustable, Without Free Travel, Compression and extension force 42 N to 2,000 N



mounting accessories see from page 200

DVC-32EU-xx



| Performance and Dimensions | | | | | | | |
|----------------------------|--------|--------|-------|------------------------|---------------------------|--|--|
| | Stroke | A max. | В | Compression force max. | Traction Force Range max. | | |
| TYPES | mm | mm | mm | N | N | | |
| DVC-32-50EU-XX | 50 | 250 | 75.2 | 2,000 | 2,000 | | |
| DVC-32-100EU-XX | 100 | 350 | 124.4 | 1,670 | 2,000 | | |
| DVC-32-150EU-XX | 150 | 450 | 173.6 | 1,335 | 2,000 | | |



HBD-50 to HBD-85

Regulation at the highest level

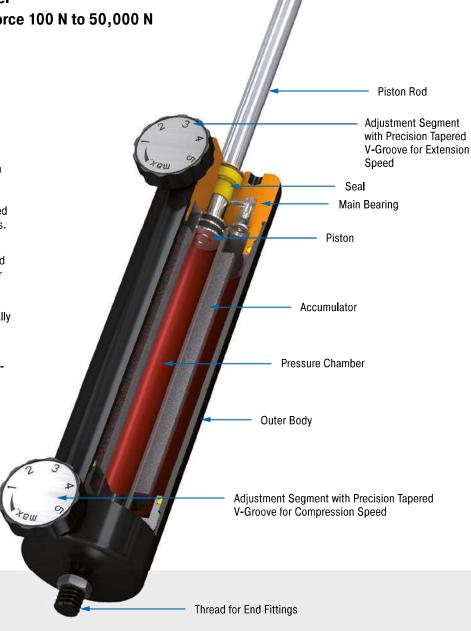
Adjustable, Without Free Travel Compression and extension force 100 N to 50,000 N

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-toinstall 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

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: Ø 50 mm to Ø 85 mm Piston rod diameter: Ø 10 mm to Ø 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

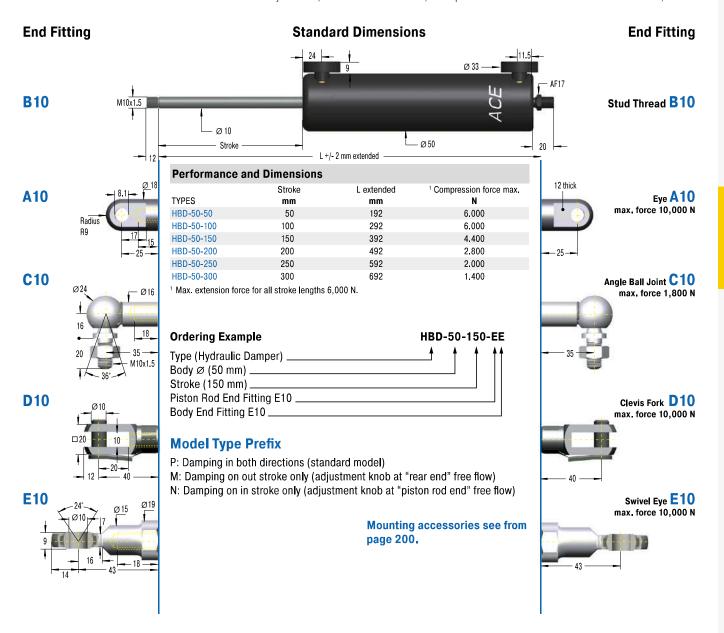
included.

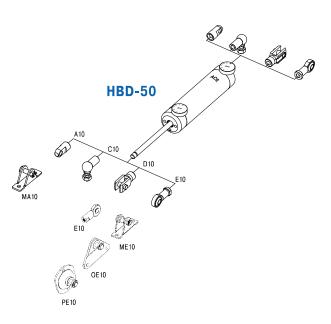
End fittings: They are interchangeable and if necessary must be positively secured by the customer to prevent unscrewing.

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

 $\textbf{Positive stop:} \ \textbf{External positive stops 1 mm to 1.5 mm before the end}$

of stroke provided by the customer.

Material: Outer body: Coated steel; Piston rod: Hard chrome plated

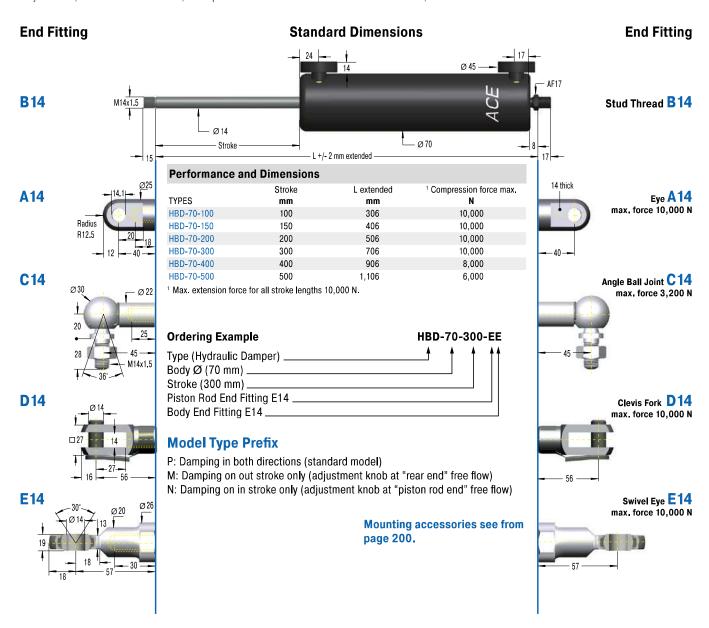
steel; End fittings: Zinc plated steel

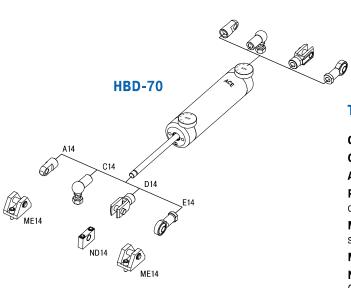
Mounting: In any position

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

One locknut included.

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

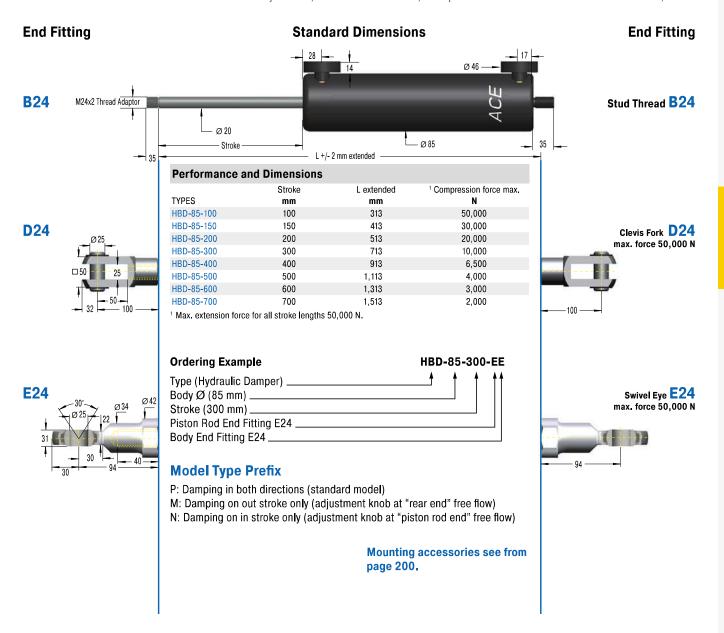
Mounting: In any position

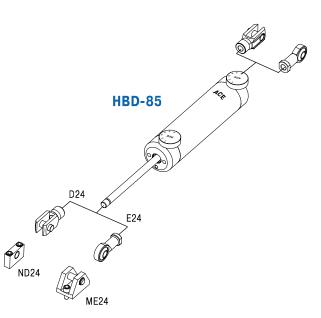
Note: Increased break-away force if unit has not moved for some time.

One locknut included.



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.



HBS-28 to HBS-70

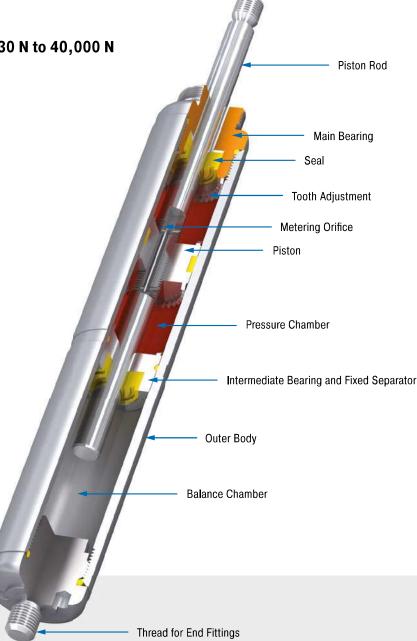
Direction change backlash free linear motion regulation

Adjustable, Without Free Travel Compression and extension force 30 N to 40,000 N Stroke 50 mm to 800 mm

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

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

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, Absorption control

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

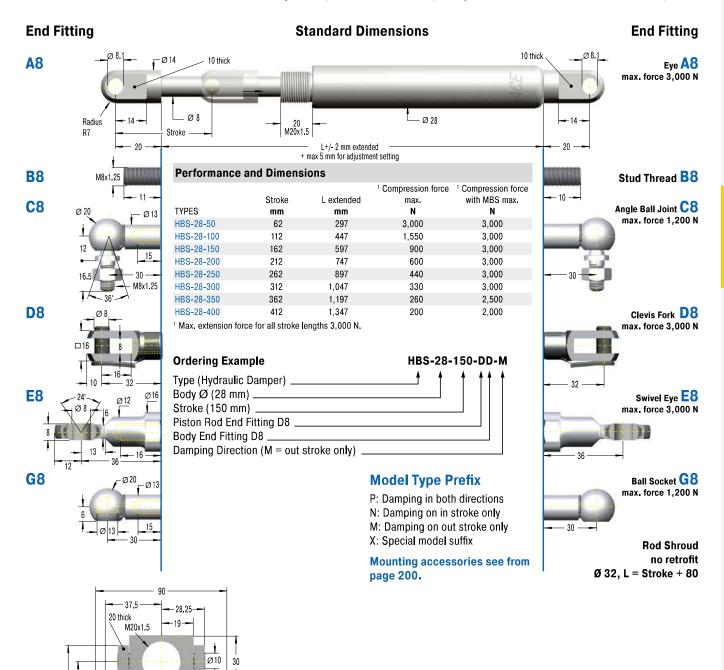
End fittings: They are interchangeable and if necessary must be positively secured by the customer to prevent unscrewing.

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



Technical Data

Compression and extension force: 30 N to 3,000 N 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. The adjustment can add a max. of 5 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.

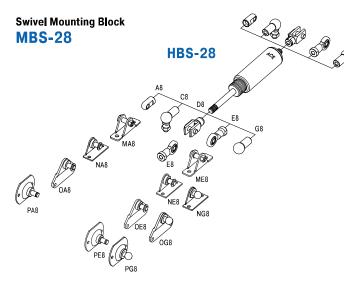
Material: Outer body: Zinc plated or coated steel; Piston rod: Hard chrome plated steel; End fittings: Zinc plated steel

Mounting: In any position

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

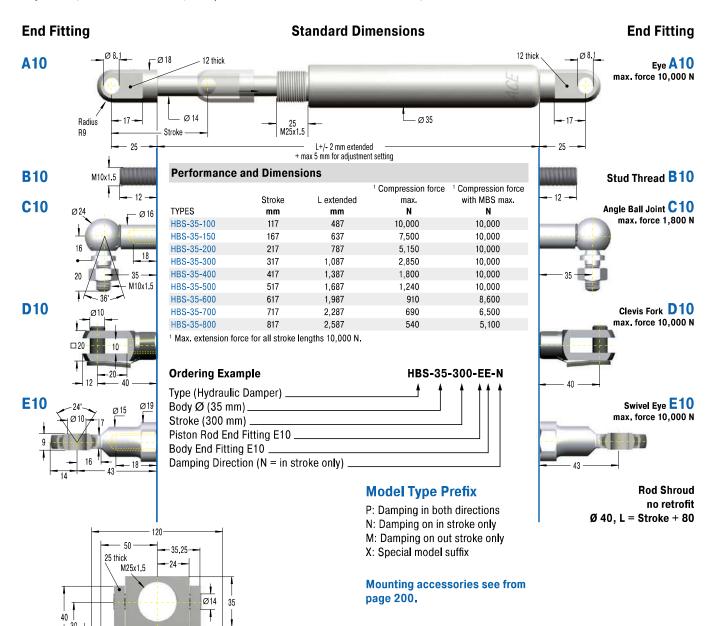
End fittings: They are interchangeable and if necessary must be positively secured by the customer to prevent unscrewing.

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

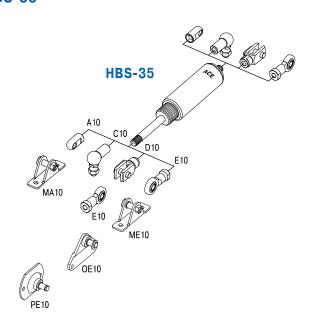


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Adjustable, Without Free Travel, Compression and extension force 30 N to 10,000 N



Swivel Mounting Block MBS-35



Technical Data

Compression and extension force: 30 N to 10,000 N Operating temperature range: $-20 \,^{\circ}\text{C}$ to $+80 \,^{\circ}\text{C}$

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. The adjustment can add a max. of 5 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

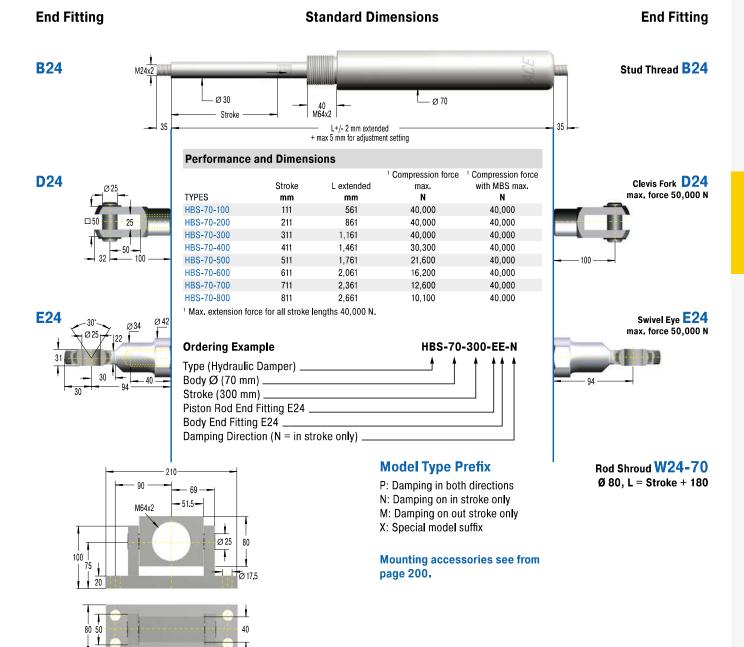
Note: Increased break-away force if unit has not moved for some time.

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

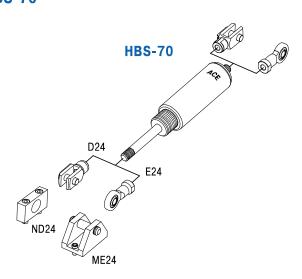
Safety instructions: For long strokes with high forces use swivel mounting block MBS.



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



Swivel Mounting Block MBS-70



Technical Data

Compression and extension force: 2,000 N to 40,000 N

Operating temperature range: -20 $^{\circ}\text{C}$ to +80 $^{\circ}\text{C}$

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. The adjustment can add a max. of 5 mm to the L dimension.

Positive stop: External positive stops 5 mm to 6 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 if necessary must be positively secured by the customer to prevent unscrewing.

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

ACE

HB-12 to HB-70

Linear motion control

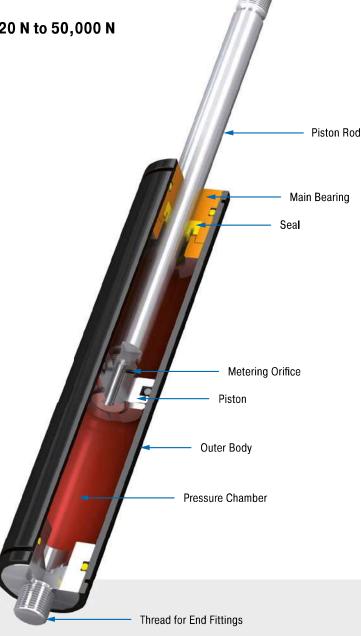
Adjustable Compression and extension force 20 N to 50,000 N

Stroke 10 mm to 800 mm

High quality and long service life: The HB model of hydraulic damper can also be used as single or double acting brake. Its coated body in a slim gas spring design and the piston rods with wear-resistant surface coating are features of high quality and long service life.

The maintenance free, ready-to-install and closed systems provide a constant feed rate and are adjustable, and the control segment on the piston makes 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.

On automotive or industrial applications, mechanical engineering, medical technology or the electronics and furniture industry, these machine elements are found in a number of different areas.



Technical Data

Compression and extension force: 20 N to 50.000 N

Outer body diameter: Ø 12 mm to Ø 70 mm **Piston rod diameter:** Ø 4 mm to Ø 30 mm

Lifetime: Approx. 10,000 m

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

Separator piston: Available as a special option without free travel achieved by separator piston and nitrogen accumulator.

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

Adjustment: Achieved by turning the piston rod in its fully extended or fully 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: Coated steel; Piston rod: Steel or stainless steel with wear-resistant coating; End fittings: Zinc plated steel

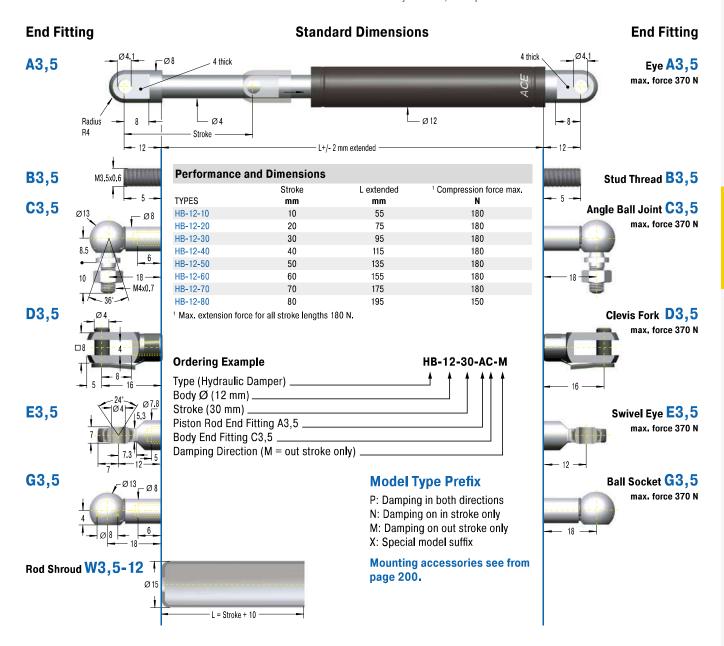
Mounting: In any position

Application field: Conveyor systems, Transport systems, Furniture industry, Locking systems, Sports equipment **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.

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

Adjustable, Compression and extension force 20 N to 180 N



HB-12 A3,5 C3,5 D3,5 G3,5 NA3,5 OA3,5 OG3,5 OG3,5

Technical Data

Compression and extension force: 20 N to 180 N

Free travel: Construction of the damper results in a free travel of approx. 21 % of stroke.

Separator piston: -

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.

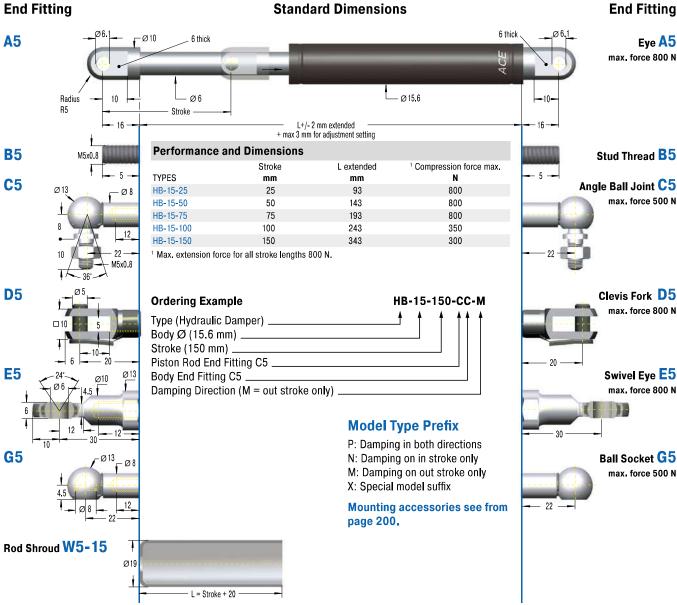
Positive stop: External positive stops 1 mm to 1.5 mm before the end of stroke provided by the customer.

Material: Outer body: coated steel; Piston rod: stainless steel (1.4301/1.4305, AISI 304/303); End fittings: zinc plated steel

Mounting: in any position

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

Adjustable, Compression and extension force 20 N to 800 N



HB-15 A5 C5 D5 E5 G5 NA5 NA5 NA5 NA5 NG5 OG5

Technical Data

Compression and extension force: 20 N to 800 N

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

Separator piston: Extension force 40 N; dimension L = 2.45 x stroke + 49 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.

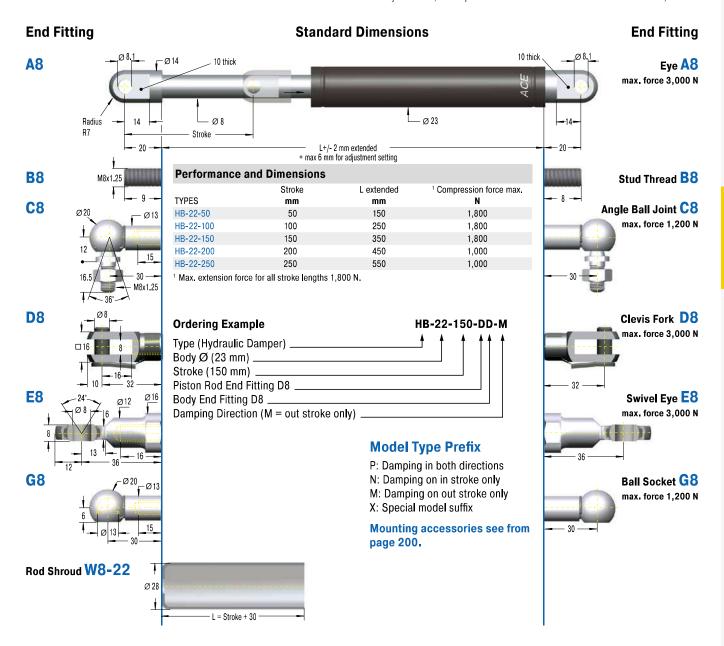
Material: Outer body: coated steel; Piston rod: steel with wearresistant coating; End fittings: zinc plated steel

Mounting: in any position

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



Adjustable, Compression and extension force 30 N to 1,800 N



Technical Data

Compression and extension force: 30 N to 1,800 N

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

Separator piston: Extension force 50 N; dimension L = 2.38 x stroke + 55 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.

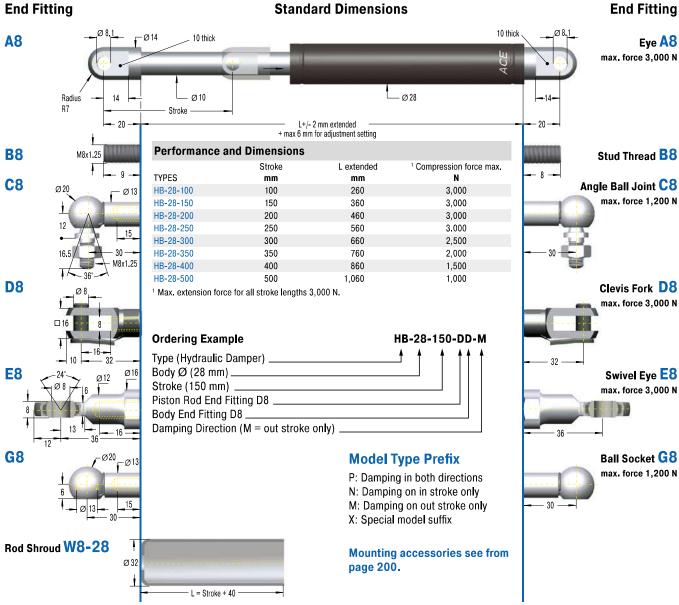
Positive stop: External positive stops 1 mm to 1.5 mm before the end of stroke provided by the customer.

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.

Adjustable, Compression and extension force 30 N to 3,000 N



HB-28 AB C8 D8 E8 G8 MAB NEB NEB NGB PEB PGB

Technical Data

Compression and extension force: 30 N to 3,000 N

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

Separator piston: Extension force 80 N; dimension L = 2.35 x stroke + 60 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.

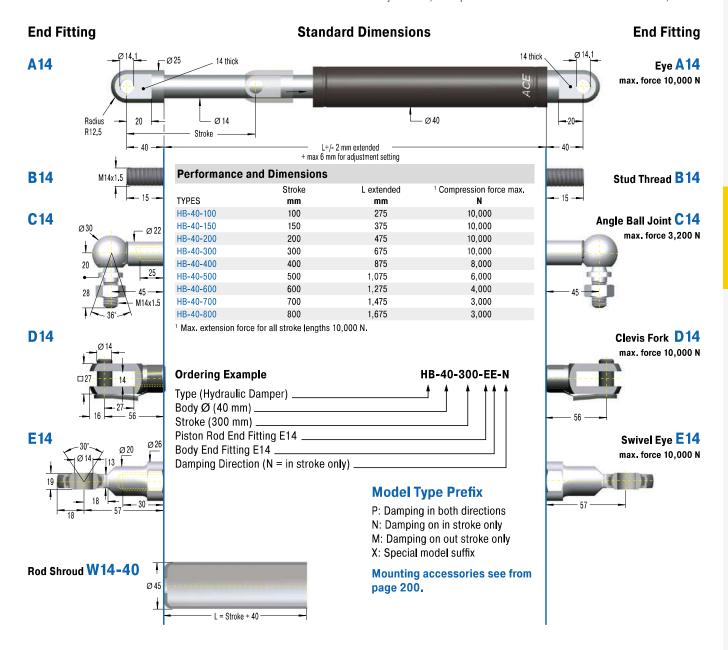
Material: Outer body: coated steel; Piston rod: steel with wear-resistant coating; End fittings: zinc plated steel

Mounting: in any position

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



Adjustable, Compression and extension force 30 N to 10,000 N



HB-40 A14 C14 D14 E14 ME14

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.

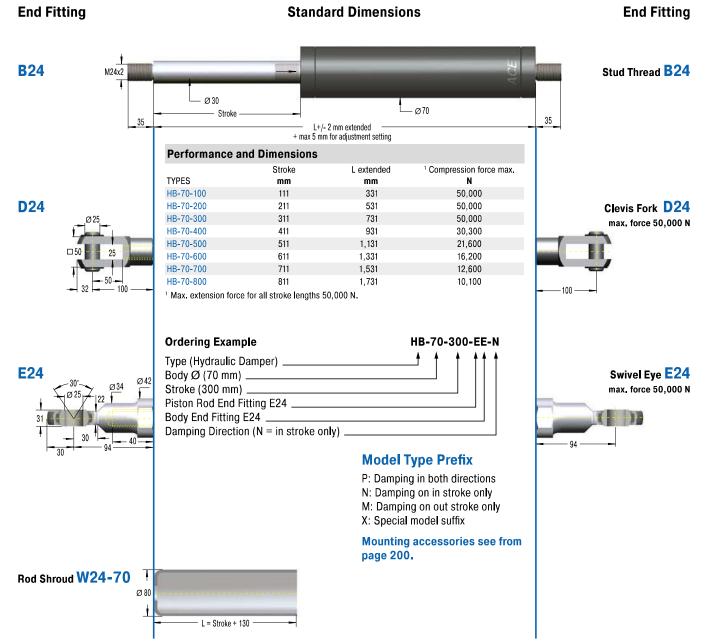
Positive stop: External positive stops 1 mm to 1.5 mm before the end of stroke provided by the customer.

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.

Adjustable, Compression and extension force 2,000 N to 50,000 N



HB-70 D24 E24 ME24

Technical Data

Compression and extension force: 2,000 N to 50,000 N

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

Separator piston: Extension force min. 250 N; dimension L + 150 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. The adjustment can add a max. of 5 mm to the L dimension.

Positive stop: External positive stops 5 mm to 6 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.



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- Precise 3-axis measurement system
- Simple & comprehensible menu
- Immediate product recommendation
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TD, TDE

The safe way to close doors

Adjustable

Energy capacity 75 Nm/Cycle to 190 Nm/Cycle

Stroke 50 mm to 120 mm

Safety for individuals, doors and frames: whether acting single-sided or double-sided, ACE TD-28 and TDE-28 dampers securely prevent doors of all types and many weight classes from slamming shut. This is because the energy for stroke lengths between 50 mm and 120 mm is absorbed so reliably, that people and their possessions are protected.

The desired attenuation force is set manually; as a result, this door damper can absorb energy up to max. 190 Nm/stroke. Impact masses up to a maximum of 7,000 kg can be overcome depending on which type. ACE door dampers are manufactured to be high quality and durable with hard chrome-plated piston rod and galvanised steel cylinder tubes.

Practical and safe, these door dampers are suitable for manual or automatically operated hinged and sliding doors, as is often seen in the elevator and furniture industries, as well as in building technology.



Technical Data

Outer body diameter: Ø 28 mm Piston rod diameter: Ø 8 mm Free travel: TDE: marginal

Operating temperature range: -20 °C to

+80 °C

Adjustment: Pull the piston rod fully out and turn the knurled rod end button. The internal toothed adjustment allows the damping to be separately adjusted for each side. As a result of the adjustment mechanism the overall length L can be increased by up to 4 mm (TDE-28) or 8 mm (TD-28).

Material: Outer body: zinc plated steel; Piston

rod: hard chrome plated steel

Impact velocity range: 0.1 m/s to 2 m/s

Strokes per minute: max. 10

Application field: lift doors, automatic doors,

doors

Note: ACE door dampers are single ended or double ended adjustable hydraulic shock

absorbers.

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



Adjustable

TD-28





Model Type Prefix

F: Automatic return with return spring

D: Without return spring. When one piston is pushed in, the piston rod at the other end is pushed out (thus the damper must be impacted from alternate ends to sequence correctly).

| Ordering Example | TD-28-50-50 | | | | |
|--------------------|-------------|--|--|--|--|
| Type (Door Damper) | | | | | |
| Body Ø (28 mm) | | | | | |
| Stroke A (50 mm) | | | | | |
| Stroke B (50 mm) | | | | | |

| Performance and Dimensions | | | | | | | | | |
|----------------------------|-----------------------------|----------------------------|-------------------------------|-----------------------|-----------------------|----------------|----------------------|-------------------------------|--------------------------|
| TYPES | Energy capacity Nm/cycle | Reacting Force N | Impact Mass max. kg | Stroke A mm | Stroke B mm | C mm | L extended mm | Return Force max. N | ¹ Return Type |
| TD-28-50-50-F | 75 | 1,550 | 150 | 50 | 50 | 220 | 402 | 30 | F |
| TD-28-70-70-F | 70 | 1,500 | 200 | 70 | 70 | 260 | 482 | 30 | F |
| TD-28-100-100-F | 80 | 1,500 | 250 | 100 | 100 | 220 | 502 | 40 | F |
| TD-28-120-120-D | 165 | 3,800 | 250 | 120 | 120 | 208 | 417 | - | D |

¹ Standard model. Other models available on request.

TDE-28





| Ordering Example | TDE-28-50 |
|--------------------|-----------|
| Type (Door Damper) | |
| Body Ø (28 mm) | |
| Stroke (50 mm) | |

| Performance and Dimensions | | | | | | | |
|----------------------------|-----------------|----------------|------------------|--------|-----|------------|-------------------|
| | Energy capacity | Reacting Force | Impact Mass max. | Stroke | С | L extended | Return Force max. |
| TYPES | Nm/cycle | N | kg | mm | mm | mm | N |
| TDE-28-50 | 80 | 2,400 | 4,000 | 50 | 130 | 219 | 30 |
| TDE-28-70 | 112 | 2,400 | 5,600 | 70 | 158 | 267 | 30 |
| TDE-28-100 | 160 | 2,400 | 8,000 | 100 | 193 | 332 | 30 |
| TDE-28-120 | 190 | 2,400 | 7,000 | 120 | 214 | 371 | 40 |



Application Examples

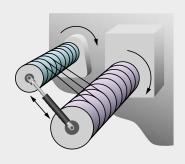
DVC-32

Precise unreeling

Hydraulic dampers bring the sled movement of this textile machine to a gentle stop. At the turning point of 130 kg reeling spools, a sled should move up and down smoothly without causing a collision at the end of stroke position. The solution was provided by the hydraulic damper DVC-32-100EU. A self-contained sealed unit, ready to install and maintenance-free these units are ideal for precise control of speeds in both directions of travel. The travel speed is maintained throughout the entire stroke and can be independently adjusted in each direction of travel. Thanks to their compact design and wide choice of mounting accessories, these dampers could be easily integrated into this machine.







HB-15 Operating speed of flaps top-regulated

In the past, operators of used-clothes containers could sustain injury because the flaps closed relatively quickly and uncontrollably. Various hydraulic dampers of the type HB-15, which are designed specifically for the type of container, regulate the synchronization of the flap in both directions and thereby serve to regulate the operating speed. To accommodate a range of requirements and to provide optimal protection against theft, different types with different strokes are mounted on flaps without damping, on large flaps with damping and on rotor flaps with damping.



Hydraulic dampers prevent fingers becoming trapped in used-clothes containers as they ensure more gentle opening and closing movements MCB Milieu & Techniek BV, 4704 SE Roosendaal, Netherlands



