

Bansbach



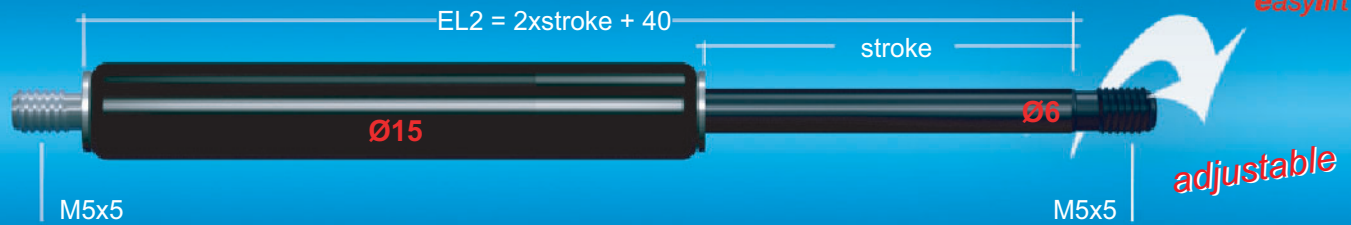
easylift

THE WORLD OF MOTION

adjustable

**Hydraulic
Damper (HB)**

Hydraulic Damper (HB)



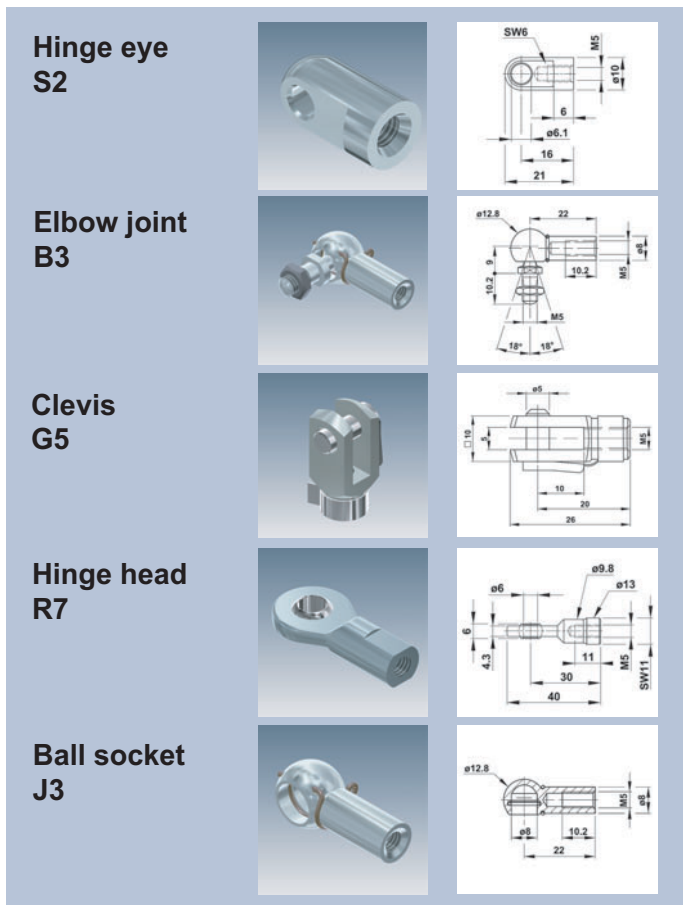
Size 6/15

adjustable: (Extension and compression force 20N to 800N)

connecting part piston rod	connecting part cylinder	model	damping options	size	stroke	EL1	max force in pull in direction	max force in push out direction
V0	V0	X	A	6	100	240*		
V0 = Thread	V0 = Thread	X	A = pull out	6 = 6/15	25	90*	800 N	800 N
S2 = Hinge eye	S2 = Hinge eye	Y	E = push in		50	140*	800 N	800 N
B3 = Elbow joint	B3 = Elbow joint		B = both directions		75	190*	800 N	800 N
G5 = Clevis	G5 = Clevis				100	240*	350 N	800 N
R7 = Hinge head	R7 = Hinge head				150	340*	300 N	800 N
J3 = Ball socket	J3 = Ball socket							

* the length of chosen connecting parts has to be added
EL1 = EL2 + connecting parts

Connecting parts

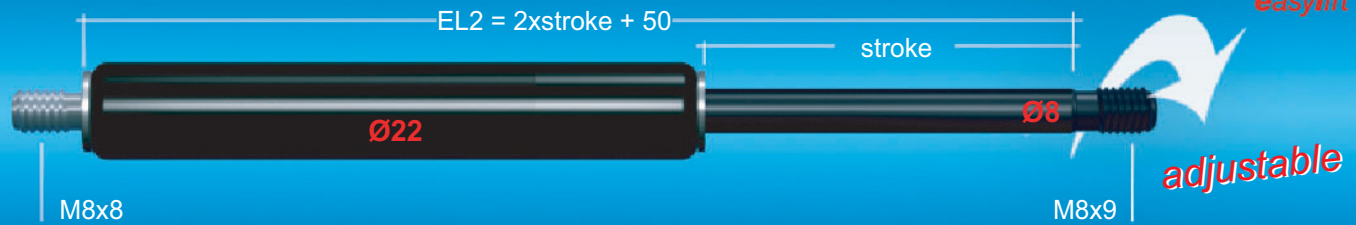


Technical advices:

- The dampers will be adjusted by turning the piston rod either in completely extended or inserted position (Type Y only in completely extended position)
- Due to constructional reasons, the dampers of **Type X** have a **free travel** of approx. 20 %
- Dampers without free travel are available **with floating piston (Type Y)**. Maximum extension force = 50N. Please indicate in case of an order. $EL2 = 2.45 \times \text{stroke} + 47$
- Chosen connecting parts have to be secured against rotation by the customer.
- Material:
Piston rod: CeramPro®-coated
Cylinder: black powder-coated
- You can find general information and technical details in our main catalogue.
- Customized specifications are available on request

The flyer is subject to technical alterations and printing mistakes.

Hydraulic Damper (HB)



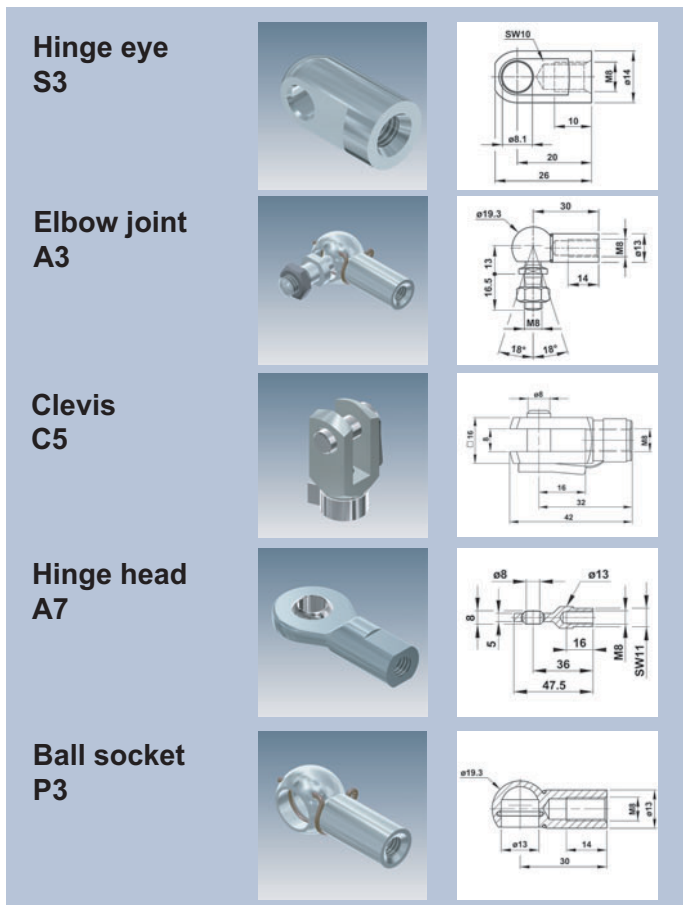
Size 8/22

adjustable: (Extension and compression force 30N to 1.800N)

connecting part piston rod	connecting part cylinder	model	damping options	size	stroke	EL1	max force in pull in direction	max force in push out direction
B0	N0	X	A	1	100	250*		
B0 = Thread	N0 = Thread	X	A = pull out	1 = 8/22	50	150*	1.800 N	1.800 N
S3 = Hinge eye	S3 = Hinge eye	Y	E = push in		100	250*	1.800 N	1.800 N
A3 = Elbow joint	A3 = Elbow joint		B = both directions		150	350*	1.800 N	1.800 N
C5 = Clevis	C5 = Clevis				200	450*	1.000 N	1.800 N
A7 = Hinge head	A7 = Hinge head				250	550*	1.000 N	1.800 N
P3 = Ball socket	P3 = Ball socket							

* the length of chosen connecting parts has to be added
EL1 = EL2 + connecting parts

Connecting parts

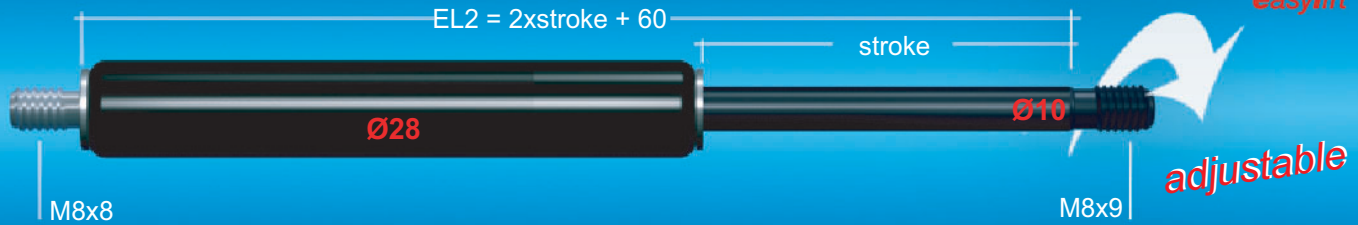


Technical advices:

- The dampers will be adjusted by turning the piston rod either in completely extended or inserted position (Type Y only in completely extended position)
- Due to constructional reasons, the dampers of **Type X** have a **free travel** of approx. 20 %
- Dampers without free travel are available **with floating piston (Type Y)**. Maximum extension force = 100N. Please indicate in case of an order. $EL2 = 2.38 \times \text{stroke} + 55$
- Chosen connecting parts have to be secured against rotation by the customer.
- Material:
Piston rod: CeramPro®-coated
Cylinder: black powder-coated
- You can find general information and technical details in our main catalogue.
- Customized specifications are available on request

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Hydraulic Damper (HB)



Size 10/28

adjustable: (Extension and compression force 30N to 3.000N)

connecting part piston rod	connecting part cylinder	model	damping options	size	stroke	EL1	max force in pull in direction	max force in push out direction
H0	N0	X	A	3	300	660*		
H0 = Thread	N0 = Thread	X	A = pull out	3 = 10/28	100	260*	3.000 N	3.000 N
S3 = Hinge eye	S3 = Hinge eye	Y	E = push in		150	360*	3.000 N	3.000 N
A3 = Elbow joint	A3 = Elbow joint		B = both directions		200	460*	3.000 N	3.000 N
C5 = Clevis	C5 = Clevis				250	560*	3.000 N	3.000 N
A7 = Hinge head	A7 = Hinge head				300	660*	2.500 N	3.000 N
P3 = Ball socket	P3 = Ball socket				350	760*	2.000 N	3.000 N
					400	860*	1.500 N	3.000 N
				500	1060*	1.000 N	3.000 N	

* the length of chosen connecting parts has to be added
EL1 = EL2 + connecting parts

Connecting parts

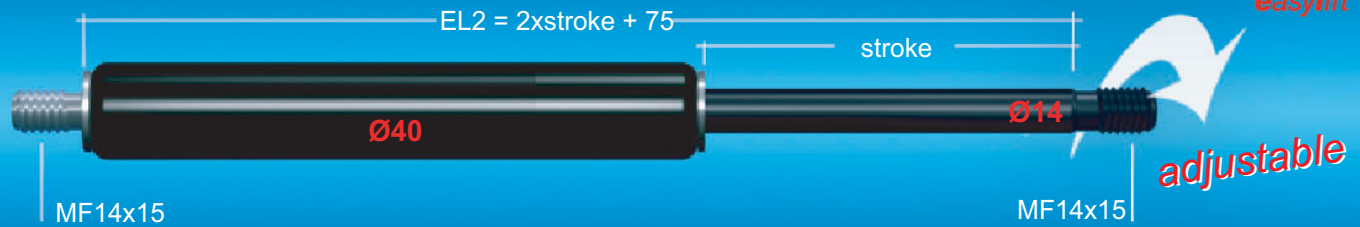
Hinge eye S3		
Elbow joint A3		
Clevis C5		
Hinge head A7		
Ball socket P3		

Technical advices:

- The dampers will be adjusted by turning the piston rod either in completely extended or inserted position (Type Y only in completely extended position)
- Due to constructional reasons, the dampers of **Type X** have a **free travel** of approx. 20 %
- Dampers without free travel are available **with floating piston (Type Y)**. Maximum extension force = 100N. Please indicate in case of an order.
EL2 = 2.35 x stroke + 60
- Chosen connecting parts have to be secured against rotation by the customer.
- Material:
Piston rod: CeramPro®-coated
Cylinder: black powder-coated
- You can find general information and technical details in our main catalogue.
- Customized specifications are available on request

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Hydraulic Damper (HB)



Size 14/40

adjustable: (Extension and compression force 30N to 10.000N)

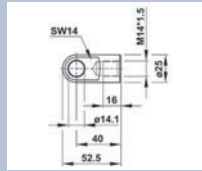
connecting part piston rod	connecting part cylinder	model	damping options	size	stroke	EL1	max force in pull in direction	max force in push out direction
Z0	Z0	X	A	B	400	875*		
Z0 = Thread	Z0 = Thread	X	A = pull out	B = 14/40	100	275*	10.000 N	10.000 N
S5 = Hinge eye	S5 = Hinge eye	Y	E = push in		150	375*	10.000 N	10.000 N
B4 = Elbow joint	B4 = Elbow joint		B = both directions		200	475*	10.000 N	10.000 N
D9 = Clevis	D9 = Clevis				300	675*	10.000 N	10.000 N
C8 = Hinge head	C8 = Hinge head				400	875*	8.000 N	10.000 N
					500	1.075*	6.000 N	10.000 N
					600	1.275*	4.000 N	10.000 N
					700	1.475*	3.000 N	10.000 N
				800	1.675*	3.000 N	10.000 N	

* the length of chosen connecting parts has to be added

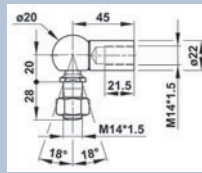
EL1 = EL2 + connecting parts

Connecting parts

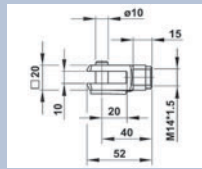
Hinge eye S5



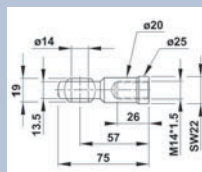
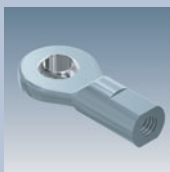
Elbow joint B4



Clevis D9



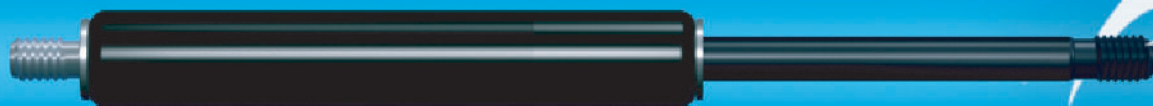
Hinge head C8



Technische Hinweise:

- The dampers will be adjusted by turning the piston rod either in completely extended or inserted position (Type Y only in completely extended position)
- Due to constructional reasons, the dampers of **Type X** have a **free travel** of approx. 20 %
- Dampers without free travel are available **with floating piston (Type Y)**. Maximum extension force = 200N. Please indicate in case of an order. EL2 = 2.32 x stroke + 82
- Chosen connecting parts have to be secured against rotation by the customer.
- Material:
Piston rod: CeramPro®-coated
Cylinder: black powder-coated
- You can find general information and technical details in our main catalogue.
- Customized specifications are available on request

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Technical advices / installation recommendations

To consider:

- The maximum loads in push and pull direction may not be exceeded.
- There must be a mechanical limit stop approx. 1 - 2 mm before end of stroke.
- Mounting of the dampers is in any position possible.
- The connecting parts should be secured against rotation.
- Due to constructional reasons, Type X has a free travel of approx. 20 %
- For a function without free travel, Type Y has to be chosen.

Adjustment of the dampers:

- An adjustment is only possible in completely inserted or extended position -

The damping force can be adjusted by turning the piston as described below. Thereby, the length EL2 will be extended by max. 6 mm.

Please take care during the adjustment that you don't damage the adjustment segment by turning it too strong against the limit stop. In case of considerable resistance, please stop the adjustment.

The dampers of **Type X** can be adjusted either **in completely inserted or extended** position. The dampers of **Type Y** can be adjusted **in completely extended** position.

1. Hold the cylinder.

2. Adjust the damper by turning the piston rod. In case of adjustment with extended piston rod, please pull the piston rod slightly during the turning process until the piston locks. In case of adjustment with inserted piston rod, the piston rod has to be pushed slightly until it locks.



Turning to the right:

Damping will be increased,
speed will be reduced



Turning to the left:

Damping will be reduced,
speed will be increased

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