



Bansbach



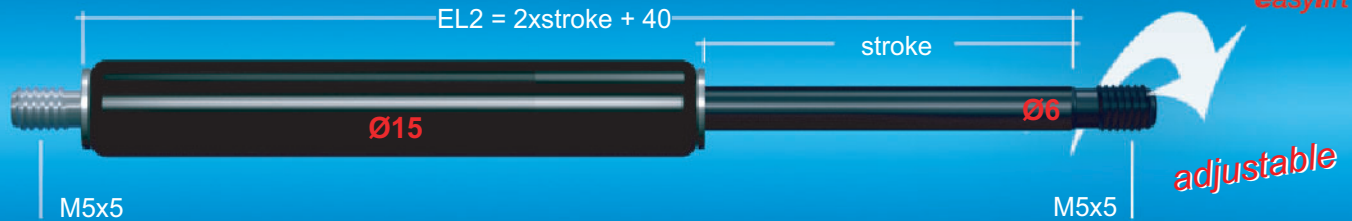
THE WORLD OF MOTION

adjustable

Hydraulic
Damper (HB)

Hydraulic Damper (HB)

Bansbach
easylift



Size 6/15

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

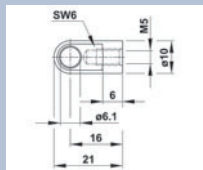
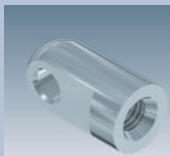
connecting part piston rod	connecting part cylinder	model	damping options	size	stroke	EL1	max force in pull in direction	max force in push out direction
V0	V0	X	A	6	100	240*		
V0 = Thread	V0 = Thread	X	A = pull out	6 = 6/15	25	90*	800 N	800 N
S2 = Hinge eye	S2 = Hinge eye	Y	E = push in		50	140*	800 N	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

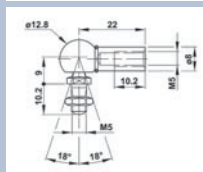
EL1 = EL2 + connecting parts

Connecting parts

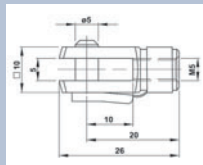
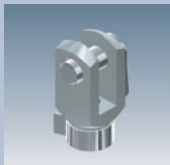
Hinge eye S2



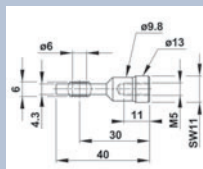
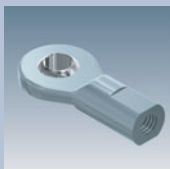
Elbow joint B3



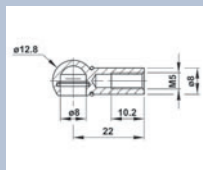
Clevis G5



Hinge head R7



Ball socket J3



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 x 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.

Bansbach easylift GmbH

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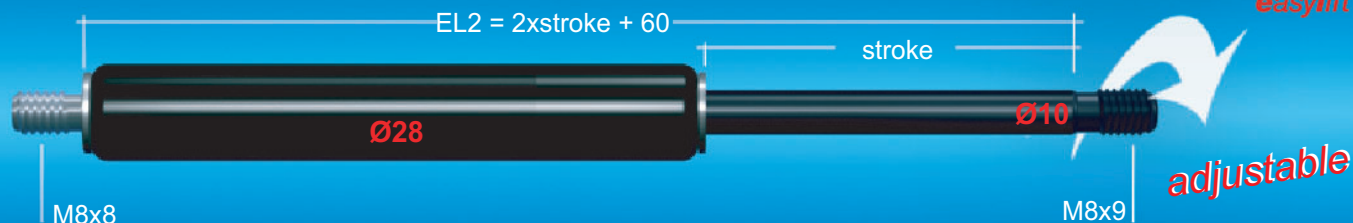


connecting part piston rod	connecting part cylinder	model	damping options	size	stroke	EL1	max force in pull in direction	max force in push out direction
B0	N0	X	A	1	100	250*		
B0 = Thread	B0 = Thread	X	A = pull out	1 = 8/22	50	150*	1.800 N	1.800 N
S3 = Hinge eye	S3 = Hinge eye	Y	E = push in		100	250*	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							

Bansbach
easy lift

Hydraulic Damper (HB)

Bansbach
easylift



Size 10/28

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

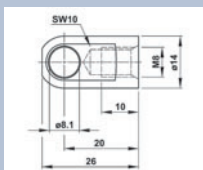
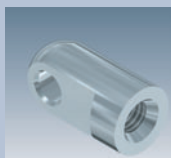
connecting part piston rod	connecting part cylinder	model	damping options	size	stroke	EL1	max force in pull in direction	max force in push out direction
H0	N0	X	A	3	300	660*		
B0 = Thread	B0 = Thread	X	A = pull out	3 = 10/28	100	260*	3.000 N	3.000 N
S3 = Hinge eye	S3 = Hinge eye	Y	E = push in		150	360*	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

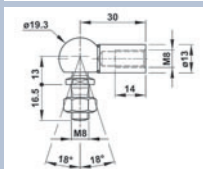
EL1 = EL2 + connecting parts

Connecting parts

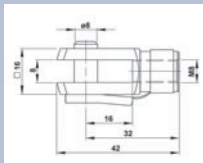
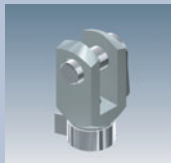
Hinge eye S3



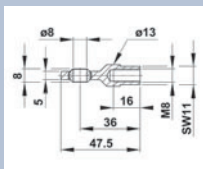
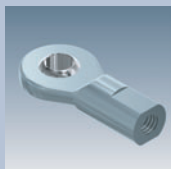
Elbow joint A3



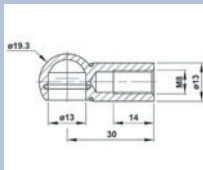
Clevis C5



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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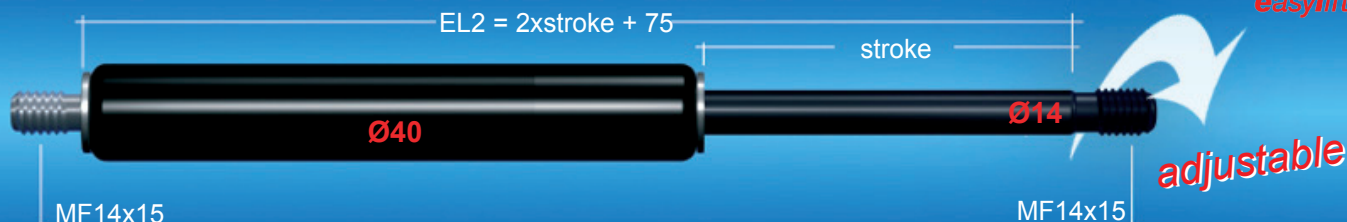
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easylift



Size 14/40

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

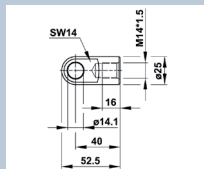
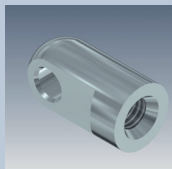
connecting part piston rod	connecting part cylinder	model	damping options	size	stroke	EL1	max force in pull in direction	max force in push out direction
Z0	Z0	X	A	B	400	875*		
Z0 = Thread	Z0 = Thread	X	A = pull out	B = 14/40	100	275*	10.000 N	10.000 N
S5 = Hinge eye	S5 = Hinge eye	Y	E = push in		150	375*	10.000 N	10.000 N
B4 = Elbow joint	B4 = Elbow joint		B = both directions		200	475*	10.000 N	10.000 N
L5 = Clevis	L5 = 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

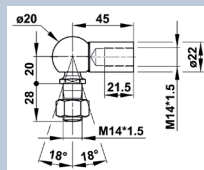
EL1 = EL2 + connecting parts

Connecting parts

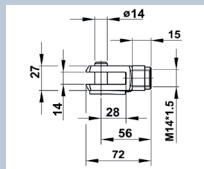
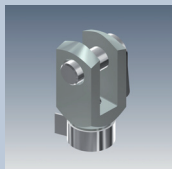
Hinge eye S5



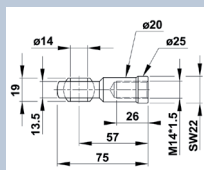
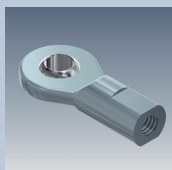
Elbow joint B4



Clevis L5



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)**. Minimum extension force = 150N. 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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adjustable

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

The flyer is subject to technical alterations and printing mistakes.

MC-Dämpfer (Motion control) MC-Damper



Fitness und Freizeit
Leisure and Training equipment



Maschinenbau
Machinery



Küche
Kitchen



Möbelindustrie
Furniture Industry



Medizin- und Reha-technik
Medical & rehabilitation equipment



Sonstiges
Others

MC-Dämpfer (Motion control) werden eingesetzt als Sicherheits- und Funktionselemente zum Dämpfen von Geschwindigkeiten und Bremsen von Massen.

MC-Dampers are used as safety and function elements in order to dampen speed and slow down masses.

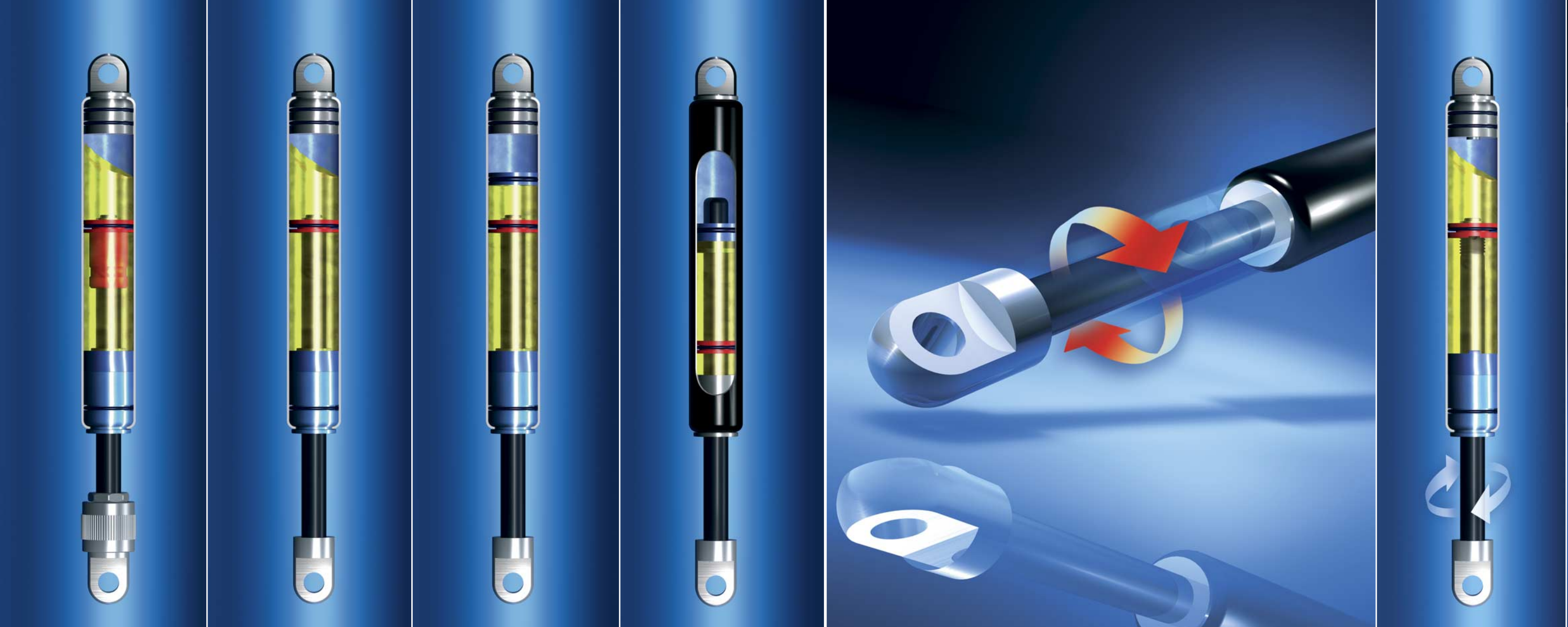
MC-Dämpfer (Motion control)

ist der Oberbegriff für spezielle, verzögernde (dämpfende) easylift Produkte, die für unterschiedlichste Sicherheits- und Funktionsaufgaben eingesetzt werden können. Easylift MC-Dämpfer bremsen Massen bzw. dämpfen je nach Bauart gezielt Geschwindigkeiten. (Also keine Stoß-, Aufprall- oder Anschlagdämpfer).

MC-dampers (motion control)

is the generic term for special, delaying (damping) easylift products which can be used for many different safety and operating functions.
Easylift MC-dampers slow down masses or dampen speed according to the size (They are not shock-, impact absorbers, or limit stop dampers.)





MC-Dämpfer Hauptbauarten | Main types MC-Damper

Einstellbare MC-Dämpfer
Wenn unterschiedliche, oder im voraus nicht klar definierbare Dämpfungsintensitäten erforderlich sind, bietet sich der Einsatz von einstellbaren easylift MC-Dämpfern an. Der entscheidende Vorteil ist, dass die Dämpfungskraft sich in montiertem Zustand regulieren lässt. Bauartbedingt kommt es zu einem geringen Leerhub.

Adjustable MC-dampers
If different or not clearly defined damping intensities are required, we recommend the use of adjustable easylift MC-dampers. The damping speed can be adjusted when the damper is mounted.

MC-Dämpfer „Standard“
Diese Bauart mit Dämpfung über den ganzen Hub ist ausschließlich mit Öl gefüllt, also kein Gasdruck. Konstruktionsbedingt ergibt sich bei ausgezogener Kolbenstange ein geringer Leerhub. Die Ein- und Ausschubgeschwindigkeit – also die effektive Beschleunigungshemmung einer Bewegung von Masse – kann durch Einsatz verschiedener Düsen sowie durch unterschiedliche Öl-Viskositäten maßgeblich beeinflusst werden.

MC-damper "standard"
This specification with damping over the complete stroke contains only oil. Due to the construction, there will be a small free travel when the piston rod is pulled out. The push-in and push-out speed – i. e. the effective slowing down (motion control) of the movement of a mass – can be influenced considerably by the use of different nozzles as well as by different oil viscosities.

MC-Dämpfer mit Trennkolben
Ist die Einbaulage horizontal oder undefiniert, kann der Leerhub der Standardausführung störend sein. Deshalb bietet das easylift System auch eine Dämpfervariante mit Trennkolben. Die Trennung von Öl- und Gasraum garantiert einen gleichmäßigen Dämpfungsverlauf. Zur Stabilisierung des Trennkolbens wird dieser mit mindestens 20N druckbeaufschlagt. Je nach Anordnung des Trennkolbens kann der Dämpfer entweder in Druck- oder in Zugrichtung stabil aufgebaut werden.

MC-damper with floating piston
If the installation is horizontal or undefined, the free movement of the standard specification can be inconvenient. Therefore, the easylift system also provides also a damping variety with floating piston. The separation of the oil- and gas chamber guarantees a smooth damping movement in every required position. For the stabilization of the floating piston, it must be pressurized by at least 20N. Depending on the position of the floating piston, the damper can be installed stable either in push- or in pull direction.

MC-Dämpfer ohne Leerhub
Diese easylift Dämpfervariante macht die kontrollierte Bewegungsdämpfung in beide Richtungen ohne Federeffekte möglich. Hierbei läuft der Kolben komplett in einer fixierten Ölkammer. Das Kolbenstangen-Volumen beeinflusst weder bei ein- noch bei ausgezogener Kolbenstange den Ölraum.

MC-damper without free travel
This easylift damping variety allows a controlled damping in both directions, without a free travel effect. Here, the piston moves completely in a fixed oil chamber. The piston rod volume doesn't influence the oil chamber neither with pushed-in nor with pushed-out piston rod.

HB-Dämpfer | HB-damper

Bestell-Beispiel | Order-Example

HO	NO	X	A	3	300	660		
Anschluß-teile Kolbenstange connecting parts piston rod	Anschluß-teile Zylinder connecting parts cylinder	Bauart model	Dämpfungsrichtung damping options	Baureihe size	Hub stroke	Einbaulänge (EL1) extended length (EL1)	max. Dämpfungs- kraft auf Druck max damping in push out direction	max. Dämpfungs- kraft auf Zug max damping in pull in direction
				mm	mm	mind. min. EL2 (mm)	N	N
siehe Seite 48 "Anschluß- teile"	siehe Seite 48 "Anschluß- teile"	X = ca. 20% Leerhub approx. 20% slip	A = ausfahrend pull out	6 = 6/15	25 50 75 100 150	90 140 190 240 340	800 800 800 350 300	800 800 800 800 800
see page 48 "connecting parts"	see page 48 "connecting parts"	Y = ohne Leerhub (abweichende Einbau-länge) without free travel (different length) Ausschubkraft min: extension force min: 6 = 40N 1 = 50N 3 = 80N B = 150N EL2: 6 = 2,45 x Hub + 47 1 = 2,38 x Hub + 55 3 = 2,35 x Hub + 60 B = 2,32 x Hub + 82	E = einfahrend push in B = beidseitig both directions	1 = 8/22	50 100 150 200 250	150 250 350 450 550	1800 1800 1800 1000 1000	1800 1800 1800 1800 1800
				3 = 10/28	100 150 200 250 300 350 400 500	260 360 460 560 660 760 860 1060	3000 3000 3000 3000 2500 2000 1500 1000	3000 3000 3000 3000 3000 3000 3000 3000
				B = 14/40	100 150 200 300 400 500 600 700 800	275 375 475 675 875 1075 1275 1475 1675	10000 10000 10000 10000 8000 6000 4000 3000 3000	10000 10000 10000 10000 10000 10000 10000 10000 10000

Nicht als Endanschlag nutzen, 1-1,5mm vor Hubende Festanschlag vorsehen (beidseitig)
Not to be used as a limit stop. Please provide a fixed stop on both sides 1 - 1,5 mm before end of stroke
Die EL kann sich durch Einstellen der Dämpfung um bis zu 6mm verlängern.
The Length can be extended by up to 6mm by adjusting the damping.

HB-Dämpfer
Mit diesen hydraulischen Bremszylindern lassen sich Ein- und Ausfahrgeschwindigkeiten sehr präzise einstellen. Dabei wird die Geschwindigkeit ein- und ausfahrend kontrolliert. Durch drehen an der Kolbenstange kann die Dämpfungsintensität dieser Dämpfer eingestellt werden. Bei der Verstellung muss darauf geachtet werden, dass das Einstellsegment durch zu starkes Drehen nicht beschädigt wird. Bei deutlichem Widerstand muss der Einstellvorgang beendet werden.

HB-damper
With these hydraulic dampers speed in push-in and push-out direction can be adjusted very precisely. The speed is controlled in both directions. The damping intensity of these dampers can be adjusted by turning the piston rod. 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.

Einstellbare MC-Dämpfer adjustable MC-dampers

Bestell-Beispiel | Order-Example

V1	A1	P	B	3	200	665		001*	550N		
Anschluß- teile Kolben- stange connec- ting parts piston rod	Anschluß- teile Zylinder connecting parts cylinder	Bauart model	Dämpfung damping	Durch- messer Kolbenst./ Zylinder size	Hub stroke	Einbaulänge (EL1) extended length (EL1)	Progression progressivity	Index Nr.* Index Nr.*	Ausschub- kraft force	Dämp- fungskraft Zug damping force in pull direction	Dämp- fungskraft Druck damping force in push direc- tion
				mm	mm	mind. min. EL2 (mm)	%		N		
V1	siehe Seite 48 "Anschluß- teile" see page 48 "connecting parts"	B	B = beidseitig both directions A = Ausschiebend push-out direction E = Einschiebend push-in direction	2 = 10/22 3 = 10/28	10-500	Hub stroke x 2+129		*Durch die Indexnummer – nur für Ihre Nachbestel- lung erforder- lich – können wir einmal gefertigte Produkte exakt repro- duzieren. Sie erhalten den Indexcode mit der Auftrags- bestätigung / Rechnung. *With the index no. – only necessa- ry for repea- ting orders – we can repro- duce exactly the same gas spring which has already been produ- ced. You will receive the index no. with the order confirmation / invoice.	–	30-5000	30-5000
						Hub stroke x 2+133					
		K	B = beidseitig both directions A = Ausschiebend push-out direction E = Einschiebend push-in direction	2 = 10/22 3 = 10/28	10-500	Hub stroke x 2,88+116 Hub stroke x 2,64+116 Hub stroke x 2,32+116	35 50 100		50-1300	30-5000	30N bis to 3,6*F1
						Hub stroke x 2,55+123 Hub stroke x 2,39+123 Hub stroke x 2,20+123	35 50 100				
		P	B = beidseitig both directions A = Ausschiebend push-out direction E = Einschiebend push-in direction	2 = 10/22 3 = 10/28	30-300	Hub stroke x 3,46+126 Hub stroke x 3,15+126 Hub stroke x 2,76+126	35 50 100		50-1300	30N bis to 2,6*F1	30-5000
						Hub stroke x 2,81+130 Hub stroke x 2,63+130 Hub stroke x 2,42+130	35 50 100				
		X	B = beidseitig both directions A = Ausschiebend push-out direction E = Einschiebend push-in direction	2 = 10/22 3 = 10/28	10-250	Hub stroke x 3,0+128			–	30-5000	30-5000
						Hub stroke x 3,0+132					

- B= mit Leerhub, nahezu mit Öl gefüllt, keine Ausschubkraft
K= Mindestausschubkraft 50N, kein Leerhub - aber Überschreitung der Blockierkraft in Druckrichtung möglich
P= Mindestausschubkraft 50N, kein Leerhub - aber Überschreitung der Blockierkraft in Zugrichtung möglich
X= ohne Leerhub und Ausschubkraft

- B= with free travel, nearly completely filled with oil, no extension force
K= minimum extension force 50N, no free travel - locking force in push direction be exceeded
P= minimum extension force 50N, no free travel - locking force in pull direction be exceeded
X= no free travel and extension force

MC-Dämpfer „Standard“ MC-damper "standard"

Bestell-Beispiel | Order-Example

A1	A1	-	9	0	200	493	001*
Anschlußteile Kolbenstange connecting parts piston rod	Anschluß- teile Zylinder connecting parts cylinder	Bauart model	Dämpfung damping	Durchmesser Kolbenst./Zylinder size	Hub stroke	Einbaulänge (EL1) extended length (EL1)	Index Nr.* Index Nr.*
				mm	mm	mind. min. EL2 (mm)	
Der Standard MC-Dämpfer berechnet sich wie eine Standard Gasdruckfeder (siehe Tabelle Seite 10/11) Außer der Baureihe 3/8 sind alle Standardgasfedern auch als Dämpfer lieferbar. Die Einbaulänge verlängert sich gegenüber der Gasfeder bei einem Dämpfer um 10mm.							
The standard MC-damper is calculated as a standard gas spring (see table on page 10/11). Except of size 03/08 mm, all standard gas springs are also available as a damper. The total length of a damper will be 10 mm longer than a gas spring.							

MC-Dämpfer mit Trennkolben MC-damper with floating piston

Bestell-Beispiel | Order-Example

B1	B1	T	-	3	200	556	001*	550N	
Anschluß- teile Kolben- stange connecting parts piston rod	Anschluß- teile Zylinder connecting parts cylinder	Bauart model	Dämpfung damping	Durchmesser Kolbenst./Zylinder size	Hub stroke	Einbaulänge (EL1) extended length (EL1)	Progression progressivity	Index Nr.* Index Nr.*	Ausschub- kraft force
				mm	mm	mind. min. EL2 (mm)			%
siehe Seite 48 "Anschluß- teile" see page 48 "connecting parts"	siehe Seite 48 "Anschluß- teile" see page 48 "connecting parts"	T	siehe S. 10 "Ausschubgesch- windigkeit/Dämp- fung" see page 10 push-out speed/damping	G = 4/12	10-150	Hub <i>stroke</i> x 2,46+30 Hub <i>stroke</i> x 2,33+30 Hub <i>stroke</i> x 2,17+30	35 50 100	*Durch die Indexnummer – nur für Ihre Nachbestellung erforderlich – können wir einmal gefertigte Produkte exakt repro- duzieren. Sie erhalten den Indexcode mit der Auftragsbestätigung / Rechnung.	20-200
				6 = 6/15	10-150	Hub <i>stroke</i> x 2,62 + 31 Hub <i>stroke</i> x 2,44 + 31 Hub <i>stroke</i> x 2,21 + 31	35 50 100	30-400	
				0 = 8/19	10-300	Hub <i>stroke</i> x 2,73+47 Hub <i>stroke</i> x 2,53+47 Hub <i>stroke</i> x 2,27+47	35 50 100	*With the index no. – only necessary for repeating orders – we can reproduce exactly the same gas spring which has already been produced. You will receive the index no. with the order confirmation / invoice.	40-700
				1 = 8/22	10-300	Hub <i>stroke</i> x 2,52+48 Hub <i>stroke</i> x 2,37+48 Hub <i>stroke</i> x 2,19+48	35 50 100	40-700	
				3 = 10/28	10-500	Hub <i>stroke</i> x 2,52+52 Hub <i>stroke</i> x 2,36+52 Hub <i>stroke</i> x 2,19+52	35 50 100	50-1300	
				B = 14/40	10-700	Hub <i>stroke</i> x 2,43+72 Hub <i>stroke</i> x 2,31+72 Hub <i>stroke</i> x 2,15+72	35 50 100	150-2600	

MC-Dämpfer ohne Leerhub MC-damper without free travel

Bestell-Beispiel | Order-Example

A1	A1	KX	-	3	200	720	001*	-
Anschlußteile Kolbenstange connecting parts piston rod	Anschluß-teile Zylinder connecting parts cylinder	Bauart model	Dämpfung damping	Durchmesser Kolbenst./Zylinder size	Hub stroke	Einbaulänge (EL1) extended length (EL1)	Index Nr.* Index Nr.*	Ausschubkraft force
				mm	mm	mind. min. EL2 (mm)		
siehe Seite 48 "Anschluß- teile" see page 48 "connecting parts"	siehe Seite 48 "Anschluß-teile" see page 48 "connecting parts"	KX	siehe S. 10 "Ausfahr- geschwindig- keit/Dämpfung"	2 = 10/22	20-250	Hub stroke x 3+83	*Durch die Indexnummer – nur für Ihre Nachbestellung erforderlich – können wir einmal gefertigte Produkte exakt repro- duzieren. Sie erhalten den Indexcode mit der Auftragsbestätigung / Rechnung. *With the index no. – only necessary for repeating orders – we can reproduce exactly the same gas spring which has already been produced. You will receive the index no. with the order confir- mation / invoice.	drucklos no pressure oder (or) 50N-1300N
				3 = 10/28	20-250	Hub stroke x 3+85		drucklos no pressure oder (or) 50N-1300N
				B = 14/40	20-250	Hub stroke x 3+89		drucklos no pressure oder (or) 150N-2600N

Anschlussteile Connecting parts



Gelenkaugen
Hinge eyes



Winkelgelenke
Elbow joints



Gabelköpfe
Clevises



Gelenkköpfe
Hinge heads



Beschlüge
Brackets



Sonderausführungen
Special connecting parts

Die sinnvolle Vielfalt der easylift Anschlußteile kennt nur einen Maßstab – Ihre tägliche Praxis!

The reasonable variety of the easylift connecting parts knows only one measure... your daily experience.

Zur gezielten und gesteuerten Kraftentfaltung gehören auch Anschlußteile, die Bewegung und Kraftübertragung in idealer Weise – und lange Zeit – gewährleisten. Das umfangreiche easylift-Angebot an Gelenkaugen, Gabelköpfen, Winkelgelenken, Gelenkschrauben und Beschlügen, wird nahezu jedem praktischen Montageanspruch gerecht.

For a detailed and controlled force development, you will also need connecting parts which guarantee movement and force transfer in an ideal way. The comprehensive easylift range of hinge eyes, clevises, elbow joints, ball joints and metal fittings will fit nearly every mounting requirement.

Selbstverständlich wird auch das praxisbewährte easylift System immer wieder vor neue Aufgaben im Bereich der Anschlußmöglichkeiten gestellt. Sollte die von Ihnen angestrebte Applikation ideal mit easylift Gasfedern zu realisieren sein, dann werden wir auch die Anschlußproblematik lösen.

Regarding connecting parts, there will, of course, be new requirements from time to time for our easylift system. If the prospective application can be solved with easylift gas springs, we will also solve the problems regarding the connecting parts.

Bitte beachten Sie, daß sich die Einbaulänge der Gasfedern durch die Wahl anderer Anschlußteile ändert. Die Einbaulänge der easylift Gasfedern wird gemessen:

- bei Gelenkaugen, Gabel- und Gelenkköpfen von Mitte Bohrung zu Mitte Bohrung
- bei Gelenken von Mitte Kugel zu Mitte Kugel (Kugelpfanne)
- bei Gewinde jeweils ohne die Gewindelänge!

Please note that the length of gas springs will change depending on your choice of different connecting parts. The length of the easylift gas springs is calculated as follows:

- from mid boring to mid boring for hinge eyes, clevises and hinge heads
- from mid ball to mid ball for elbow joints
- without connectors the thread length is not included

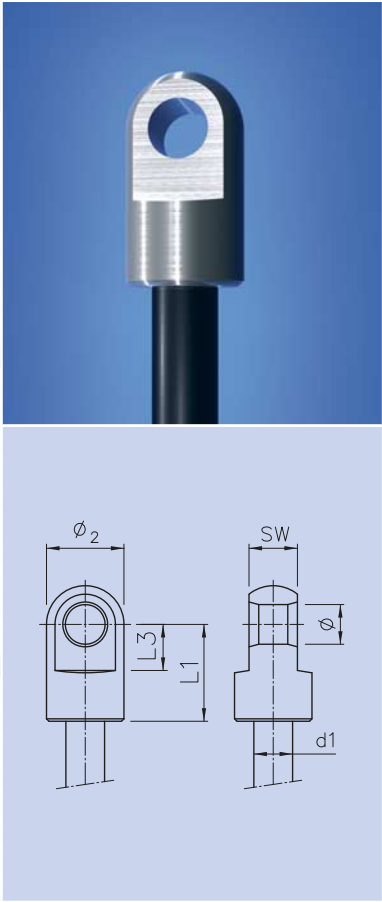
Technische Daten und Maße zu den standardisierten Anschlußteilen des Bansbach easylift Systems entnehmen Sie bitte den folgenden Seiten.

Please see the following pages for technical data and dimensions of the standardized connecting parts of the easylift system.



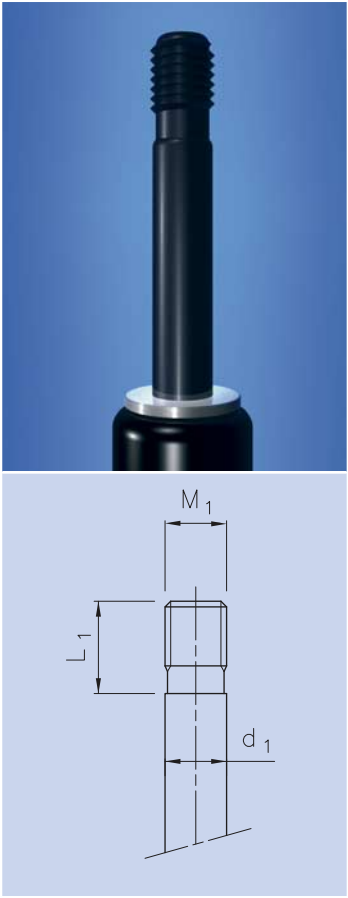
Gelenkaugen Kolbenseite | Hinge eyes piston rod side

								geeignet für: suitable for:			
Code	SW	Ø	L ₁	L ₃	Ø ₂	d ₁	Gewinde thread	Gasdruck-federn Gas springs	Blockierb. Gasfedern Lockable gas springs	Gaszug-federn Gas traction springs	Material material
Q1	3,0	4,1	11,0	5,0	7,0	3,0	M3	●			Alu aluminium
H1	3,0	4,1	12,0	6,0	8,0	4,0	M4	●			Stahl steel
D1	3,0	6,2	16,0	9,0	11,0	6,0	M5	●		●	Stahl steel
F1	6,0	6,2	16,0	10,0	10,0	6,0	M5	●		●	Stahl steel
E1	3,0	8,2	16,0	9,0	11,0	6,0	M5	●		●	Stahl steel
D2	5,0	6,2	23,0	11,5	16,0	8,0 - 10,0	M8	●		●	Alu aluminium
E2	5,0	8,2	23,0	12,5	16,0	8,0 - 10,0	M8	●		●	Alu aluminium
E2/KL	5,0	8,2	23,0	11,5	19,0	8,0 - 10,0	ø8	●		●	Alu aluminium
A1	10,0	8,2	20,0	20,0	16,0	8,0 - 10,0	M8	●		●	Alu aluminium
H2	10,0	6,2	20,0	20,0	16,0	8,0 - 10,0	M8	●		●	Alu aluminium
M2	10,0	10,2	20,0	20,0	16,0	8,0 - 10,0	M8	●		●	Alu aluminium
J2	8,0	8,2	20,0	10,0	16,0	8,0 - 10,0	M8	●		●	Alu aluminium
K2	12,0	8,2	20,0	10,0	16,0	8,0 - 10,0	M5, M8	●		●	Alu aluminium
W2	8,0	8,2	27,0	12,0	16,0	8,0 - 10,0	M8	●		●	Alu aluminium
G2	8,0	6,2	20,0	10,0	16,0	8,0 - 10,0	M8	●		●	Alu aluminium
A2	18,0	8,2	25,0	25,0	18,0	8,0 - 14,0	M8,M10	●		●	Zink-Druckguss die-cast zinc
B2	18,0	10,2	25,0	25,0	18,0	8,0 - 14,0	M8,M10	●		●	
X3	14,0	8,2	20,0	20,0	19,0	8,0 - 14,0	M8,M10	●		●	Alu aluminium
B1	12,0	8,2	25,0	12,0	19,0	10,0 - 14,0	M8,M10	●		●	Alu aluminium
L2	12,0	10,2	25,0	12,0	19,0	10,0 - 14,0	M10	●		●	Alu aluminium
N2	10,0	8,2	30,0	16,0	19,0	12,0 - 16,0	M10	●		●	Alu aluminium
Z2	12,0	12,2	25,0	11,0	19,0	12,0 - 14,0	M8,M10	●		●	Alu aluminium
Z1	10,0	8,5	30,0	16,0	19,0	12,0 - 16,0	M10	●		●	Alu aluminium
M2	10,0	10,2	30,0	16,0	19,0	10,0 - 16,0	M10	●		●	Alu aluminium
Q2	10,0	10,5	30,0	16,0	19,0	12,0 - 16,0	M10	●		●	Alu aluminium
C1	14,0	14,2	40,0	20,0	20,0	16,0 - 20,0	M14	●		●	Stahl steel



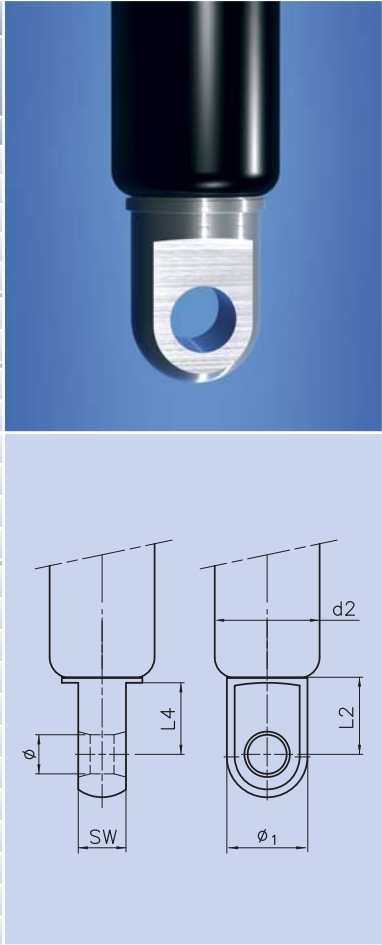
Gewinde Kolbenstange | Threads on piston rod side

				geeignet für: suitable for:		
Code	M ₁	L ₁	d ₁	Gasdruckfedern Gas springs	Blockierbare Gasfedern Lockable gas springs	Gaszugfedern Gas traction springs
Q0	M3	4,0	3,0	●		
U0	M 4	4,0	4,0	●		
V0	M 5	5,0	6,0	●		
B0	M 8	9,0	8,0	●		●
H0	M 8	9,0	10,0	●		●
D0	M10	9,0	10,0 - 16,0	●		●
R0	M 6	10,0	8,0	●		
A0	M 6	8,0	8,0	●		
J0	M 8	12,0	8,0 - 10,0	●		
P0	M 8	15,0	8,0 - 10,0	●		
C0	M 8	20,0	8,0 - 10,0	●		
E0	M10	15,0	10,0 - 16,0	●		
F0	M10	20,0	10,0	●		
G0	M12	12,0	12,0	●		
Y0	M 6	6,0	6,0	●		●
Z0	MF 14 x 1,5	15,0	16,0 - 22,0	●		●
K0	MF10 x 1	18,0	10,0 - 16,0		●	
O0	MF14 x 1,5	20,0	14,0 - 22,0		●	
V0	MF8 x 1	16,0	8,0		●	
I0	M24 x 2	35,0	30,0	●		



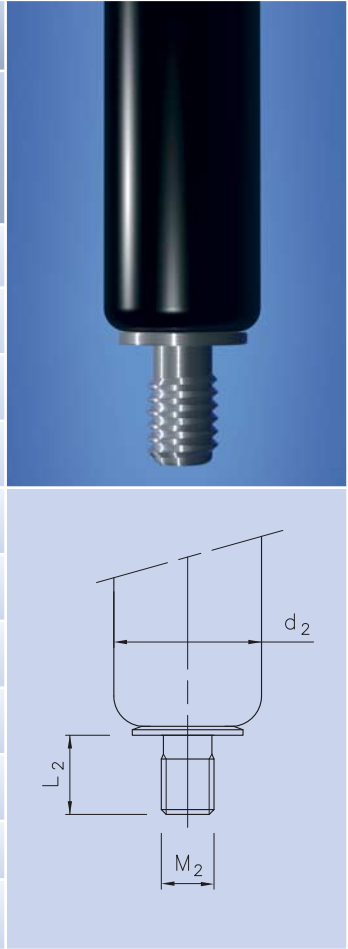
Gelenkaugen Zylinderseite | Hinge eyes cylinder side

							geeignet für: suitable for:			
Code	SW	Ø	L ₂	L ₄	Ø ₁	d ₂	Gasdruck-federn Gas springs	Blockierbare Gasfedern Lockable gas springs	Gaszugfedern* Gas traction springs*	Material material
H1	3,0	4,1	8,0	7,0	8,0	12,0	●			Stahl steel
D2	5,0	6,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0	●	●		Alu aluminium
E2	5,0	8,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0	●	●		Alu aluminium
D1	3,0	6,2	12,0	10,5	11,0	15,0	●			Alu aluminium
E1	3,0	8,2	12,0	10,5	11,0	15,0	●			Stahl steel
F2	10,0	8,2	9,5	9,5	15,0	19,0	●	●		Alu aluminium
F2	10,0	8,2	12,0	11,0	17,0	22,0	●	●		Alu aluminium
A1	10,0	8,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0	●	●	●	Alu aluminium
H2	10,0	6,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0	●	●		Alu aluminium
M2	10,0	10,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0	●	●		Alu aluminium
G2	8,0	6,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0	●	●		Alu aluminium
J2	8,0	8,2	16,0	15,0	15,0 - 17,0	19,0 - 22,0	●	●	●	Alu aluminium
K2	12,0	8,2	16,0	15,0	17,0	22,0	●	●		Alu aluminium
B1	12,0	8,2	13,0	12,0	20,0	28,0	●	●	●	Alu aluminium
L2	12,0	10,2	13,0	12,0	20,0	28,0	●	●	●	Alu aluminium
N2	10,0	8,2	13,0	12,0	20,0	28,0	●	●	●	Alu aluminium
V2	6,0	8,2	13,0	12,0	20,0	28,0	●	●		Alu aluminium
Z2	12,0	12,2	13,0	12,0	20,0	28,0	●	●	●	Alu aluminium
A1	10,0	8,2	16,0	15,0	20,0	28,0	●	●		Alu aluminium
Z1	10,0	8,5	16,0	15,0	20,0	28,0	●	●		Alu aluminium
M2	10,0	10,2	16,0	15,0	20,0	28,0	●	●		Alu aluminium
Q2	10,0	10,5	16,0	15,0	20,0	28,0	●	●		Alu aluminium
M3	8,0	10,2	16,0	15,0	16,0	28,0	●	●		Alu aluminium
N3	8,0	8,2	16,0	15,0	20,0	28,0	●	●		Alu aluminium
K3	12,0	9,2	16,0	15,0	20,0	28,0	●	●		Alu aluminium



Gewinde Zylinder | Threads on cylinder side

				geeignet für: suitable for:			
Code	M ₂	L ₂	d ₂	Gasdruck-federn Gas springs	Blockierbare Gasfedern Lockable gas springs	Gaszugfedern Gas traction springs	Gasfedern mit Ventil Gas springs with valve
Q0	M 3	4,0	8,0 - 10,0	●			
U0	M 4	4,0	12,0	●			
V0	M 5	5,0	15,0 - 19,0	●		●	● (nur only Ø d2 = 15,0)
L0	M 8	13,0	19,0 - 28,0	●	●	●	
M0	M10	13,0	22,0 - 40,0	●	●	●	●
A0	M 6	8,0/12,0	19,0 / 22,0	●		●	
N0	M 8	8,0	19,0 - 28,0	●	●	●	●
S0	M10	6,0	22,0	●			
Y0	M 6	6,0	15,0	●			
Z0	MF 14 x 1,5	15,0	40,0	●		●	●
I0	M24 x 2	35,0	70,0	●			

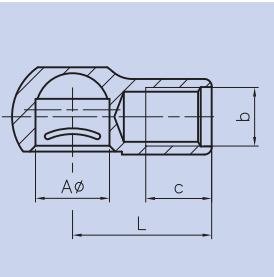
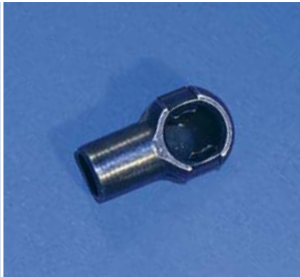
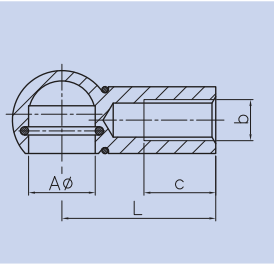


*Gegebenenfalls geeignete Gewindezapfen auswählen, sodass jedes gewünschte schraubbare Anschlussteil verwendet werden kann. *If possible use a suitable thread, so the prefered connection part can be used

Weitere Varianten auf Anfrage • Other variations on request

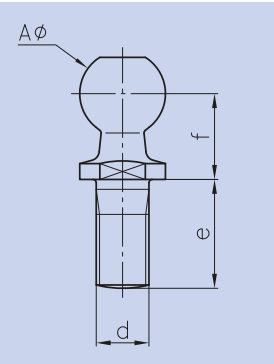
Technische Änderungen vorbehalten • We reserve the right to make technical changes at any time without prior notice

Kugelpfannen mit Sicherheitsbügel | Ball sockets incl. fastener

Code	Aø	L mm	b*c mm	Material		
W5	10	19	M6*9 , M8*9	Stahl <i>steel</i>		
W6	10	18,5	M8*9	Kunststoff <i>plastic</i>		
W7	10	18,5	M5*5	Kunststoff <i>plastic</i>		
F5	8	18	M4*6	Stahl verzinkt <i>steel, zinc plated</i>		
J3	8	22	M5*10,2			
W4	10	15	M5*5			
F3	10	19	M8*12			
P3	13	30	M6*14 , M8*14			
W3	16	35	M10*15,5			

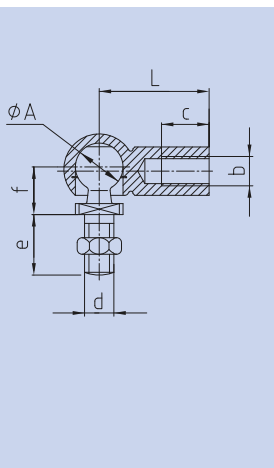
Kugelbolzen | Bolts

Art-Nr. art. no.	Aø	d*e mm	f mm	Material
KB08M4*10.2BL	8	M4*10,2	9	Stahl verzinkt steel, zinc plated
KB08M5*10.2BL	8	M5*10,2	9	
KB08M5*17BL	8	M5*17	9	
KB105/16*25.4BL	10	5/16 - 18UNC-2A*25	12,7	
KB10M8*13BL	10	M8*13	12	
KB10M8*16.5BL	10	M8*16.5	12	
KB10M8*20BL	10	M8*20	12	
KB13M8*16.5BL	13	M8*16.5	13	
KB16M10*20BL	16	M10*20	16	





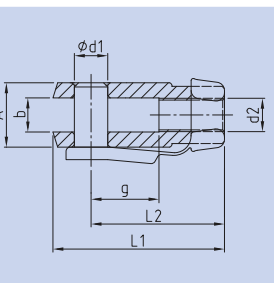
Winkelgelenke | Elbow joints

Code	Aø	L mm	b*c mm	d*e mm	f mm	Material	max. Belastung/ load N*	Mutter nut		
Q3	8	18	M3*6	M3*10,2	9	Stahl verzinkt <i>steel, zinc plated</i>	350	●		
F4	8	18	M4*6	M4*10,2	9		500	●		
B3	8	22	M5*10	M5*10,2	9		500	●		
C3	10	15	M5*6	M8*13	12		740			
J4	10	25	M6*11,5	M6*12,5	11		740	●		
D3	10	19	M8*9	M8*13	12		740			
A9	10	17	Ø 7*9	M8*13	12		740			
Y9	10	19	M6*9 / M8*9	M8*13	12		740	●		
H3	10	19	M8*9	5/16-18UNC-2A	13		740			
A3	13	30	M8*14	M8*16,5	13		1230	●		
A4	16	35	M10*15,5 / M8 *15,5	M10*20	16		1900	●		
B4*	19	45	M14*1,5*21,5	M14*1,5*28	20		3200	●		

*Ausschubkraft F1 zzgl. Progression (statisch) *extension force F1 plus progressivity (statical)

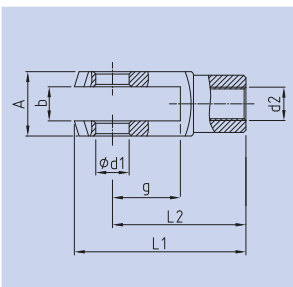
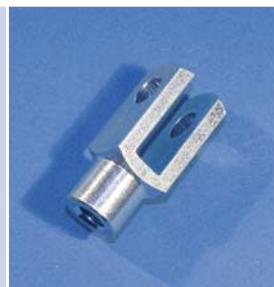
Gabelköpfe mit Federbolzen | Clevises with clip bolts

Code	ø d1 mm	g mm	A mm	b mm	L1 mm	L2 mm	ø d2 mm	Material
N4	4	8	8	4	21	16	M4	Stahl verzinkt <i>steel, zinc plated</i>
G5	5	10	10	5	26	20	M5	
C5	8	16	16	8	42	32	M8	
D9	10	20	20	10	52	40	M10	
L5	14	28	27	14	72	56	M14*1,5	



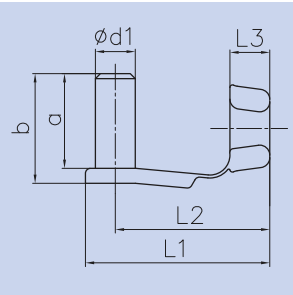


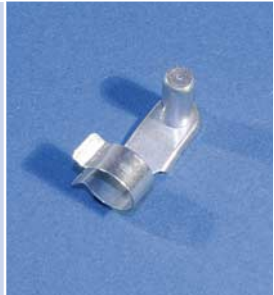
Gabelköpfe ohne Federbolzen | Clevises without clip bolts

Code	ø d1 mm	g mm	A mm	b mm	L1 mm	L2 mm	ø d2 mm	Material		
Q5	4	8	8	4	21	16	M3	Stahl verzinkt <i>steel, zinc plated</i>		
M4	4	8	8	4	21	16	M4			
E5	5	10	10	5	26	20	M5			
A5	8	16	16	8	42	32	M8			
B9	10	20	20	10	52	40	M10			
H5	14	28	27	14	72	56	M14*1,5			
M5	25	50	50	25	132	100	M24*2			

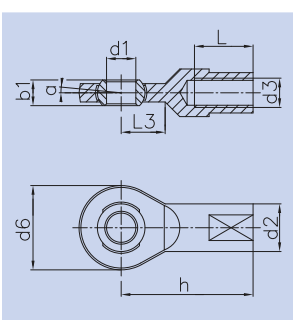
Federklappbolzen | Clip bolt

Code	ø d1 mm	g mm	a mm	b mm	L1 mm	L2 mm	L3 mm	Material
P4	4	8	9,5	11	19	15	4,5	Stahl verzinkt <i>steel, zinc plated</i>
F5	5	10	12	13,5	23	19	5,5	
B5	8	16	19	21,5	37	30	8	
C9	10	20	23	26	45	38	10	
J5	14	28	31	34	62	52	14	

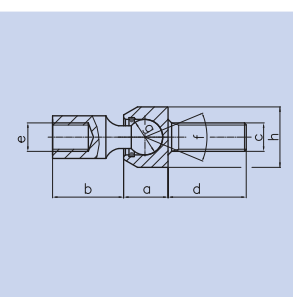




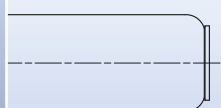
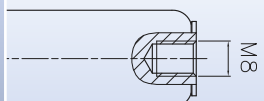
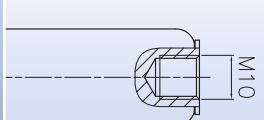
Gelenkköpfe | Hinge heads

Code	a	b1 mm	d1 mm	d2 mm	d3	d6 mm	h mm	L mm	L3 mm	Material		
A7	8°	8	8	13	M8	23	36	16	12	Stahl verzinkt <i>steel, zinc plated</i>		
A8	6°	9	10	16	M10	28	43	20	13			
C4	6,5°	6	6	10	M5	20	30	12	11			
C8	7,5°	19	14	20	M14*1,5	37	57	21	17			
M8	15°	31	25	42	M24*2	60	94	42	30			

Gelenkschrauben | Ball joints

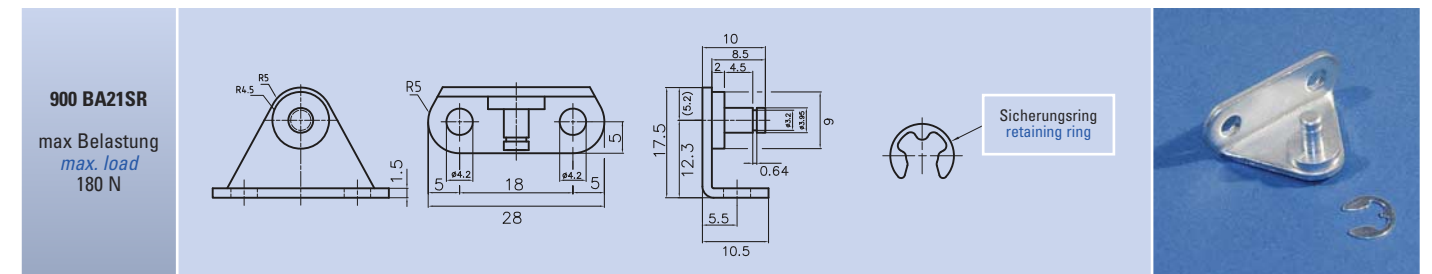
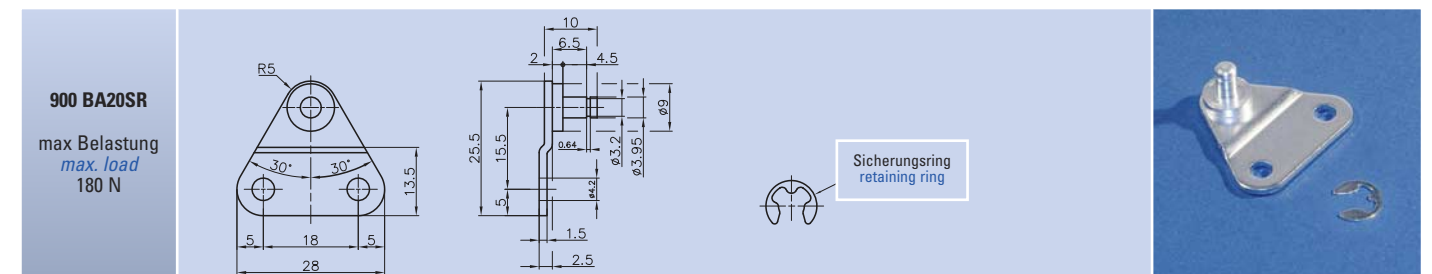
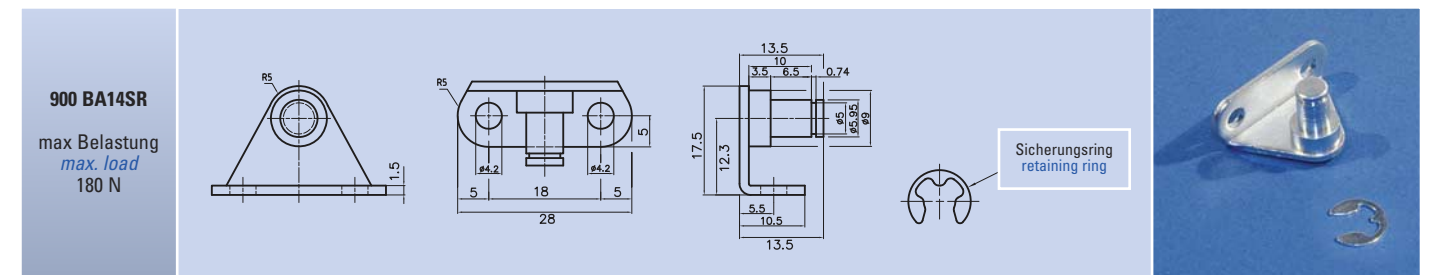
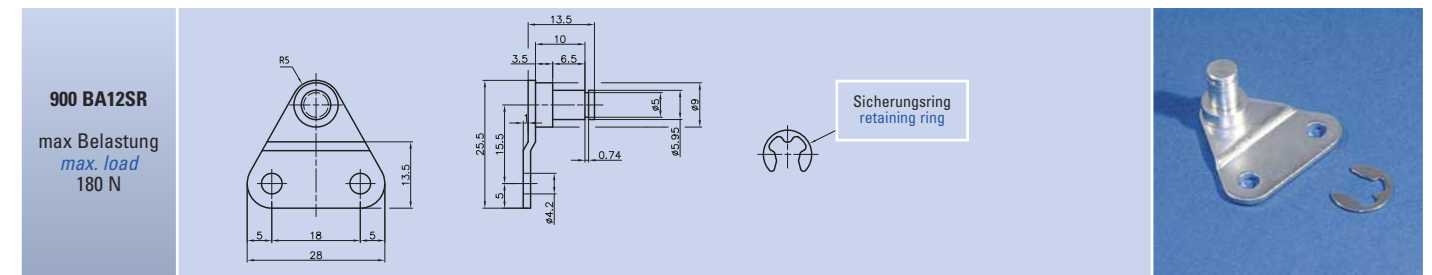
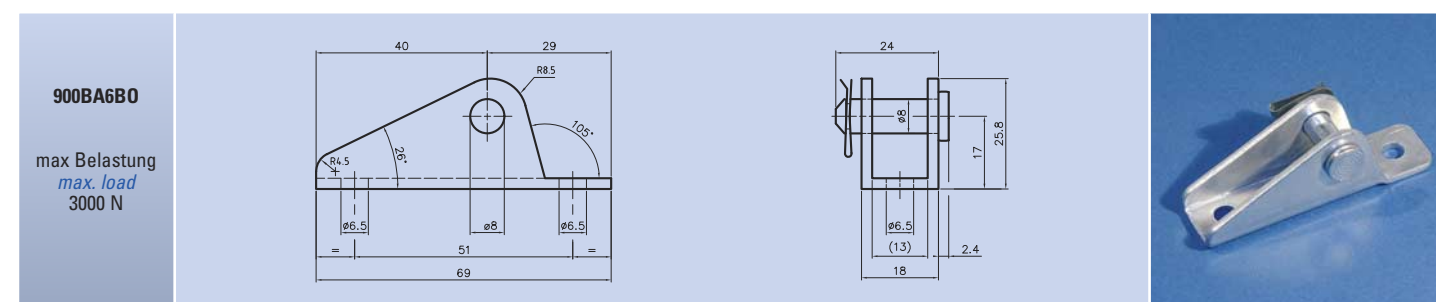
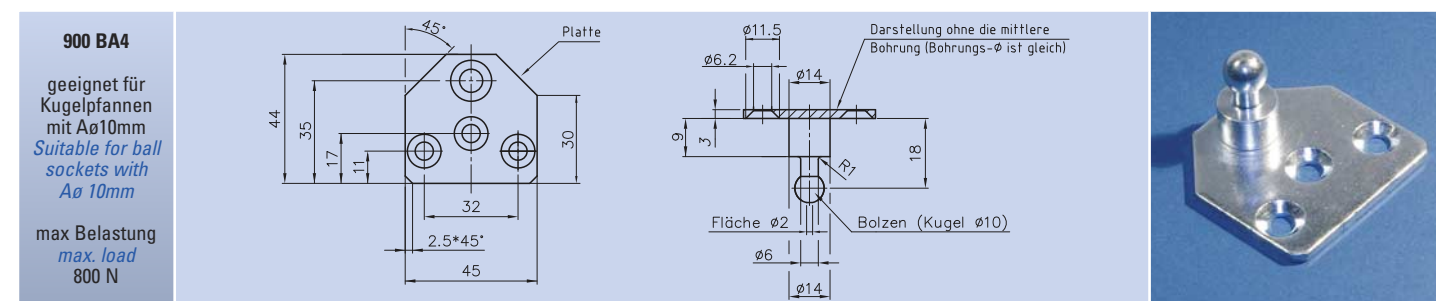
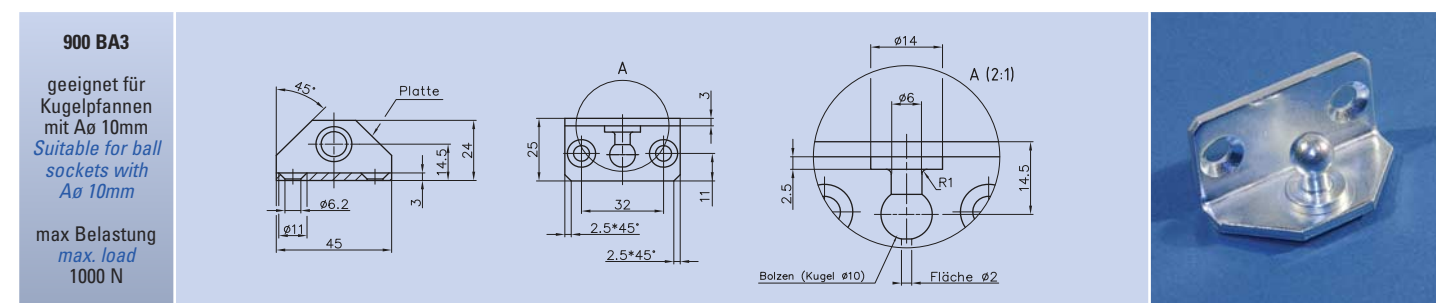
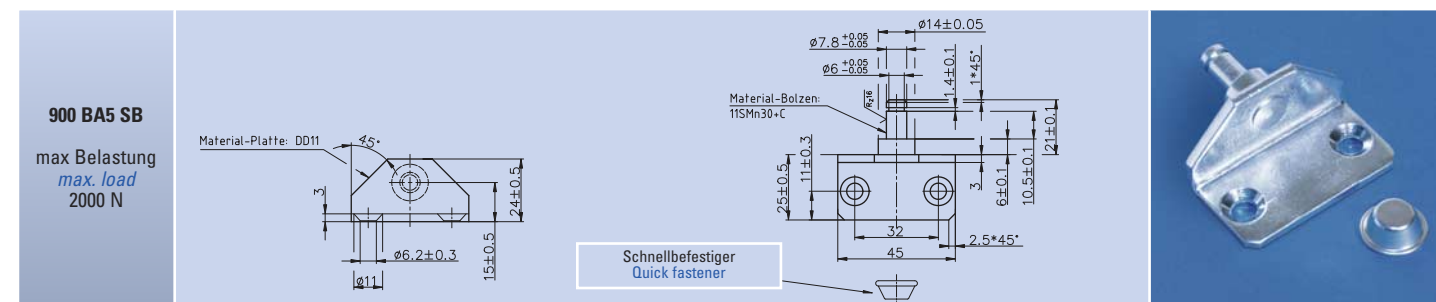
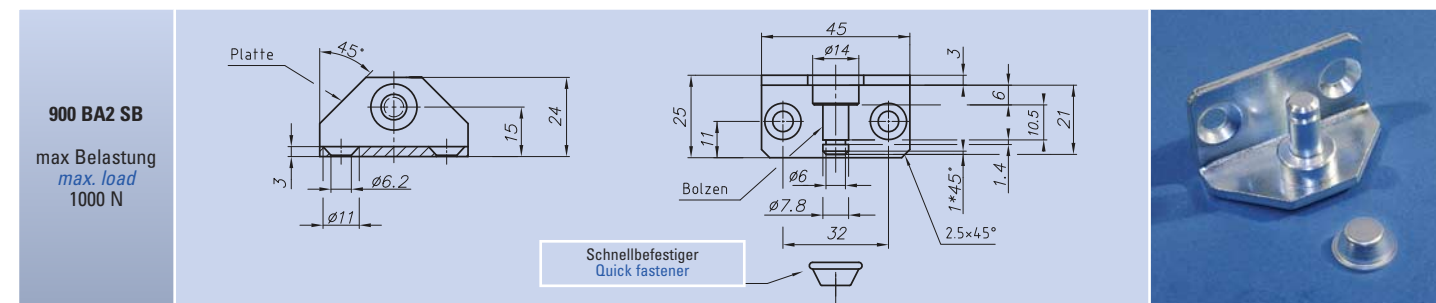
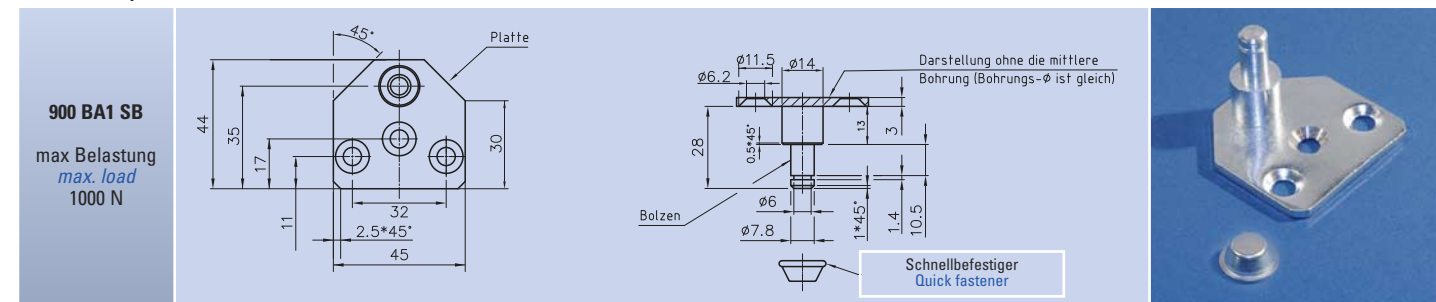
Code	a mm	b mm	c	d mm	e	f	g mm	h	Material		
G6	12	16	M5	20	M5	30°	ø 8	SW13	Stahl verzinkt <i>steel, zinc plated</i>		
A6	12,5	20	M8	35	M8	30°	ø 10	SW17			
B6	12,5	20	M8	22	M8	30°	ø 10	SW17			

Sonderausführungen Beispiele | Examples of special connecting parts

Kolbenstange piston rod						
H9		G9		für alle Kolbenstangendurchmesser erhältlich <i>available for all diameter</i>		
Zylinderendstück cylinder (Ø 12, 15, 19, 22, 28, 40)						
H9		U9	 M8	N9	 M10	

Technische Änderungen vorbehalten • We reserve the right to make technical changes at any time without prior notice

Beschläge | Brackets



Nachfüllkoffer für Gasfedern mit Ventil | Filling case for gas springs with valve

Artikel-Nr. Art.-No.	
NACHFUELLKOFFER-001 (analog)	
NACHFUELLKOFFER-002 (digital)	
• 1 Flaschendruckminderer, Anschlussgewinde W24,32 x 1/14 RH • 1 Dreiwegekugelhahn Anschlussgewinde 1/4" • Füllglocke(n) gemäß Ihres Auftrags (eine inklusive) • Ablassschraube(n) passend zu den Füllglocken • 1 Hochdruckschlauchverbindung 1000 mm Länge	• <i>1 bottle pressure diminisher, connecting thread W24,32 x 1/14 RH</i> • <i>1 three-way diverter ball valve, connecting thread 1/4"</i> • <i>Filling adapter(s) according to your order (one included)</i> • <i>Depressurizing screws suitable for the containing filling adapters</i> • <i>1 high-pressure-tube connector 1000 mm length</i>



Verfügbare Ablaßschrauben für Gasfedern mit Ventil | Available release screws for gas springs with valve

Artikel-Nr. Art.-No.	für Gewinde for thread	Zylinder Cylinder Ømm
XXAS15MV0	M5 x 5	15
XXAS19MN0	M8 x 8	19 & 22
XXAS22MM0	M10 x 13	22
XXAS28MN0	M8 x 8	28
XXAS28MM0	M10 x 13	28
XXAS40MM0	M10 x 13	40
XXAS40MZ0	M14 x 1.5 x 15	40

