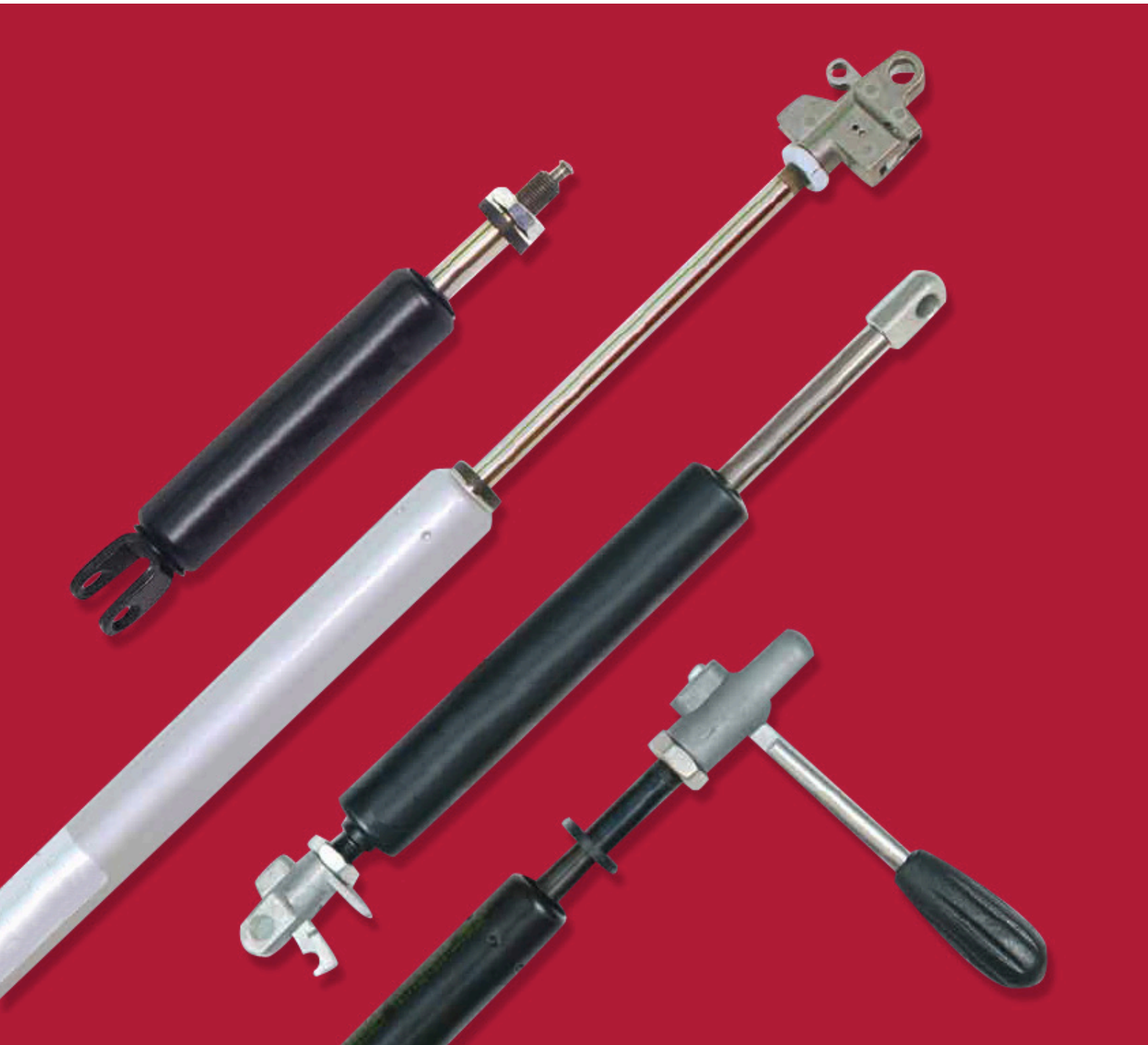


Blocklift Catalogue

High Quality Blocklift Gas Spring Solutions



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Introduction

Camloc Motion Control Limited is a leading designer and manufacturer of an extensive range of gas springs, dampers, brackets and end fittings, providing quality engineered solutions that you can rely on time and time again.

Since 1989, literally millions of gas springs and dampers have been manufactured by Camloc Motion Control Limited and supplied to thousands of customers worldwide, across a variety of industry sectors.

Camloc gas springs provide direct support for safely lifting, positioning, holding, lowering and counterbalancing weights. They typically provide support for applications such as horizontally hinged doors, hatches, lids and covers.

High quality Blocklift gas springs

All Blocklifts are designed and manufactured in an ISO 9001 accredited facility; this means that you can be confident that your Blocklifts are produced to ensure the highest possible standards in both quality and safety.

Benefits

Blocklifts are excellent way of moving an application to any position at the discretion of the operator. The Blocklifts will also allow a load to be applied to the application while it is locked in any of the infinite locked positions. Additional benefits include:

- Self-contained unit
- Maintenance free
- Safe to use
- Easy positional control
- Single handed operation
- Available in stainless steel
- Shrouded options available
- Wide range of release mechanism options

Tailor made solutions

Blocklifts are available in a large range of sizes depending on the customer's requirements and specifications. Blocklifts are available in carbon steel as well as 316L and 304 stainless steel. For more information on our range of Blocklifts and other standard gas spring and damper products, please visit our website at www.camloc.com.



BLOCKLIFT

Blocklift gas springs are lockable gas springs. Thanks to their internal locking mechanism they can be locked at any desired position along the complete stroke. This locking mechanism will only allow the piston rod to be moved while the release pin, located either at the end of the piston rod or on the tube end, is pressed. While the release pin is pressed, the Blocklift works like a normal gas spring on a counterbalance basis and the gas spring closes or extends according to the applied force / loaded weight. When the release pin is no longer being pushed the locking mechanism locks immediately causing the Blocklift to stay in that position. This locking can be soft / spring loaded or solid / rigid dependant on the requirements of the application.

There are numerous applications where a Blocklift can be used. Whether it is on hospital beds, seats or tables – Blocklift gas springs support the lifting and lowering, changing or adjusting of movable elements safely and comfortably.

Some popular applications are;

- Back rest adjustment of passenger seats on buses, train seats and office chairs
- Various adjustments on hospital beds and massage tables
- Height adjustments on tables, desktops and school desks
- Various adjustments on wheelchairs and patient handling equipment.

Available Blocklift types to fulfil the individual needs of your applications

- BL1 : Rigid in extension
- BL2 : Rigid in compression
- BL3 : Spring Blocking
- BL4 : Hydrostop - Rigid in extension and compression
- BL5 : M-Blocklift
- BL6 : Locking in extension - free travel in compression
- BL7 : Locking in compression - free travel in extension
- BL8 : GT-Blocklift
- BL9 : Blocklift with override function in extension
- BL10 : Blocklift with override function in compression
- INOX : Stainless steel Blocklift
- BLT2 : T-Blocklift – Rigid in compression
- BLT3 : T-Blocklift – Spring Blocking
- Burolift



BL1 - BL2 - BL3 - Basic Blocklift types

There are many Blocklifts, the basic Blocklift types, shown on **pages 10 to 23** are;

- **BL1 - Rigid Blocking in Extension**

The BL1 is the Blocklift type providing rigid locking in the extension direction. This type has a slight spring effect in the compression direction.

- **BL2 - Rigid Blocking in Compression**

Total rigidity in compression direction is provided by the BL2 type Blocklift. This type has a slight spring effect in the extension direction.

- **BL3 - Spring Blocking**

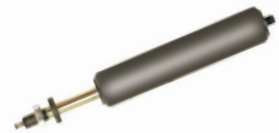
The BL3 Blocklift is ideal for applications where some comfort in the locked direction is desirable.



BL4 - Hydrostop

Rigid in extension and compression

Lockable gas spring with total rigidity in extension and compression direction. Available in 10/22 and 10/28. More details and a variation of different sizes and end fittings are shown on **pages 24 to 26**.



BL5 - M-Blocklift

The M-Blocklift offers a number of advantages for height-adjustment requiring applications. Refer to **pages 27 and 28** to learn more about our BL5 M-Blocklift range and about its benefits and advantages.

BL6 - BL7 - Blocklift gas springs with single direction locking

Single direction locking Blocklift gas springs do require an actuation mechanism to operate in a single direction. They allow actuation free travel in the opposite direction. More details and a variation of different sizes and end fittings are shown on **pages 29 to 33**. These are available in two types;

- **BL6 - Locking in extension - free travel in compression**

Blocklift providing rigid locking feature in extension direction and actuation free operation in compression.

- **BL7 - Locking in compression - free travel in extension**

Blocklift gas springs with rigid locking capability in compression direction and actuation free operation in extension.



BL8 - GT-Blocklift

Gas traction Blocklift

The working principle of the BL8 - GT-Blocklift is the opposite of the Blocklift type gas spring. While the Blocklift is always prepared to extend (i.e. to open itself) the GT-Blocklift is produced to close itself. Find more details on **pages 34 and 35**.

BL9 - BL10 - Blocklift gas springs with override function

Blocklift gas springs with override function

- **BL9 - Blocklift with override function in extension**
- **BL10 - Blocklift with override function in compression**

Blocklift gas springs with rigid locking in one direction featured with override function in the opposite direction. Find more details on **pages 36 and 37**.



T-Blocklift

T-Blocklifts are ideal for applications that require a short installation length and a large stroke. The T-Blocklift range is available with 'Rigid in Compression' and 'Spring Blocking'. A variation of different sizes and end connection alternatives are shown on **pages 40 to 43**.

Inox - Blocklift

The stainless steel range

For high corrosion resistance most Blocklift type gas springs are available in SAE 304 or SAE 316L stainless steel. Please refer to **pages 44 and 45** for details on our Inox-Blocklift range.



Burolift

The Burolift type gas spring is for use on swivel chairs for either height or for position adjustment. See **page 46** for details.

GENERAL TECHNICAL SPECIFICATIONS

Tube Finishing

- Black Painted (standard)
- Different colours on request (acc. to RAL code)
- Galvanised
- Stainless Steel (SAE304 or SAE316L)

Piston Rod

- Black (Tennifer / Nitriding)
- Hard Chrome plated
- Stainless Steel (SAE304 or SAE316L)

End Fittings

If not otherwise stated material of the end fittings is metal.

Extension Speed

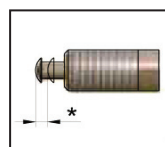
The extension speed is adjustable according to your individual request. For more details see **page 62**.

Working Temperature

- Standard -30°C to + 80°C
- On request up to -45°C
- On request up to + 200°C

For more information see **page 65**.

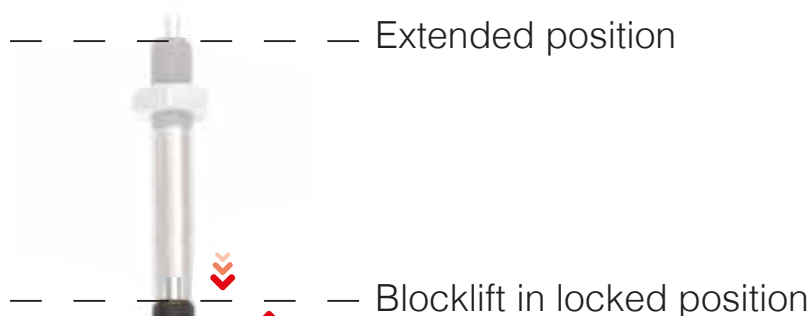
Release Way


































The release pin of Blocklift gas springs must be pressed for a certain stroke (release way) so that the locking mechanism unlocks. Details on release way alternatives are on **page 62**.

Release Systems

A wide selection of release heads and release systems is available for you to choose the most suitable one for your individual application. See alternatives starting on **page 48**.



 If a force, either in extension or compression direction, is applied on the locked Blocklift the reaction will change depending on its product type.

Product Type	 Extension (pull out) direction	 Compression (push in) direction
BL 1	 Rigid locking	 Elastic locking
BL 2	 Elastic locking	 Rigid locking
BL 3	 Elastic locking	 Elastic locking
BL 4	 Rigid locking	 Rigid locking
BL 5	  Almost Rigid locking	  Almost Rigid locking
BL 6	 Rigid locking	 Non locking - free travel
BL 7	 Non locking - free travel	 Rigid locking
BL 8	 Rigid locking	 Rigid locking
BL 9	  Locking until predefined force (Override function)	 Rigid locking
BL 10	 Rigid locking	  Locking until predefined force (Override function)
BLT 2	 Elastic locking	 Rigid locking
BLT 3	 Elastic locking	 Elastic locking

[illegible]

BL1 - Rigid Blocking in Extension

On some applications total rigidity is paramount when the Blocklift is locked. If this rigidity is required in the extension direction, the BL1 will fit your requirements.

If overload in extension direction is applied when the Blocklift is locked, there won't be any movement of the piston rod. Whereas overloads in compression direction will cause a cushioning of a few millimetres. Once the load is released the piston rod will return to the initial position. BL1 Blocklifts can be mounted in any required position.

BL2 - Rigid Blocking in Compression

BL2 Blocklifts are recommended for applications where a total rigidity in compression direction is a must. In case of overloads in compression direction, while the Blocklift is locked, the piston rod will stay rigid. Loads in extension direction will cause cushioning of the piston rod but as soon as the load is released, the piston rod will return to its initial position. BL2 Blocklifts can be mounted in any required position.

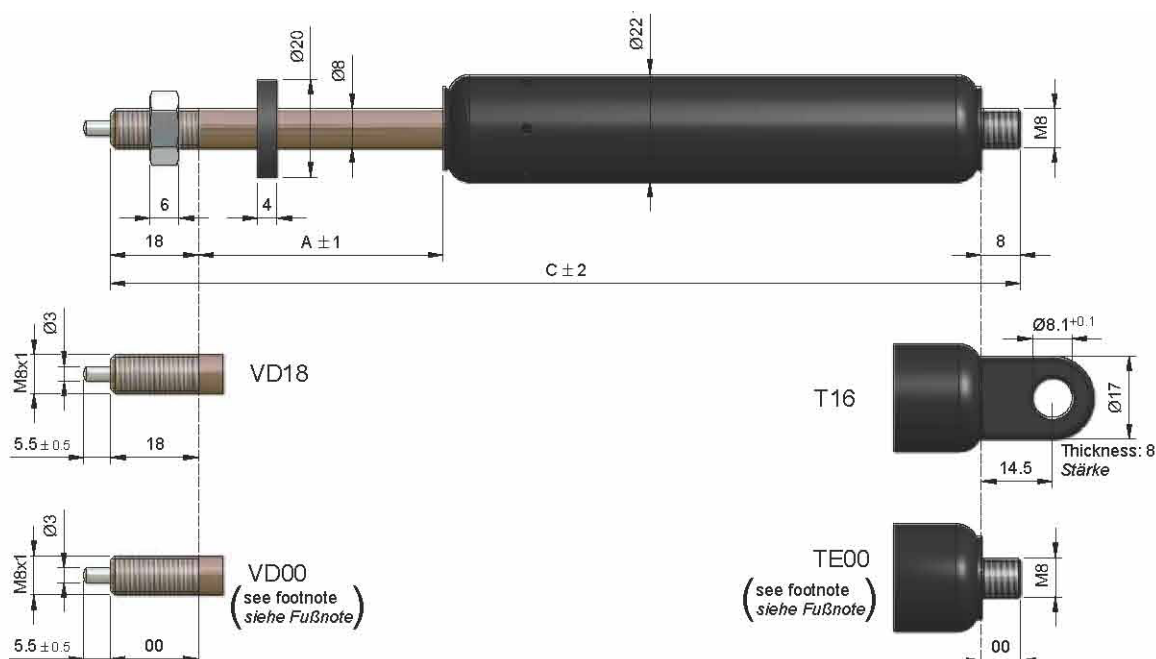
BL3 - Spring Blocking

In some applications, some comfort is desirable even when the Blocklift is locked. For such applications we recommend the 'Spring Blocking' Blocklift which can be cushioned when it is locked so that sudden loads are dampened.

Depending on the amount of force applied, either in extension or compression direction, while the Blocklift is locked, a short displacement of the piston rod will take place allowing comfortable damping. After a few millimetres of movement it becomes harder to move because of the increasing gas pressure inside the gas spring. Also on this model the piston rod will return to the initial position when the load is released.

BL3 Blocklifts should be installed with the piston rod downwards. This is important to ensure an optimum working condition and lifetime of the gas spring. Suitable BL3 types for applications where it must be installed with piston rod upwards or in a horizontal position are available.





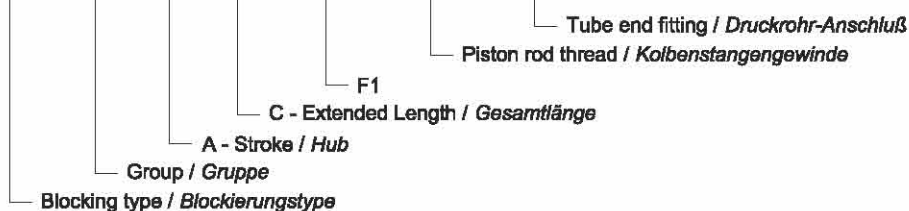
Extras	see page siehe Seite
Protection Tube <i>Schutzrohr</i>	63
Valve <i>Ventil</i>	64
Release Systems <i>Auslösesysteme</i>	48
Release way <i>Auslöseweg</i>	62
Special Extension Speed <i>Ausfahrgeschwindigkeit</i>	62
Special Length <i>Maßvarianten</i>	38

A : min.10mm - max.500mm
F1 : min.100N - max.800N *

Blocking types / Blockierungstypen
BL1 : Rigid Blocking in extension / <i>Starre Blockierung in Zugrichtung</i>
BL2 : Rigid Blocking in compression / <i>Starre Blockierung in Druckrichtung</i>
BL3 : Spring Blocking / <i>Federnde Blockierung</i>

ORDERING EXAMPLE / BESTELL BEISPIEL

BL1 - 8/22 - 30 - 215 - 200N - VD25 - TE12 - Extras

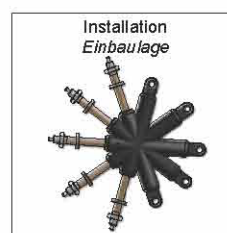
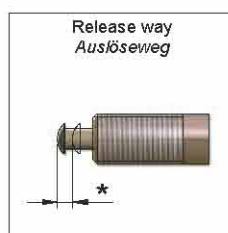
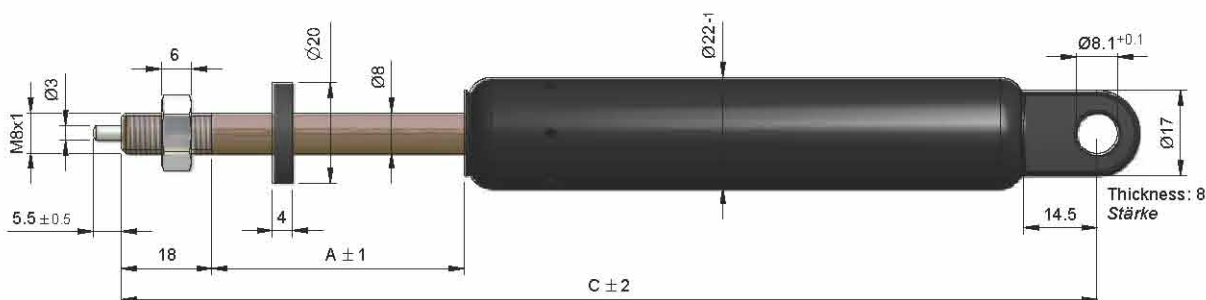


To specify a thread length for VD and TE replace the '00' with the thread length you require. (Limit for VD is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD und TE den gewünschten Maß an Stelle von '00' vermerken (für VD min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 800N in steps of 50N. / F1 Werte von 100 - 800N gestaffelt in 50N schritten.

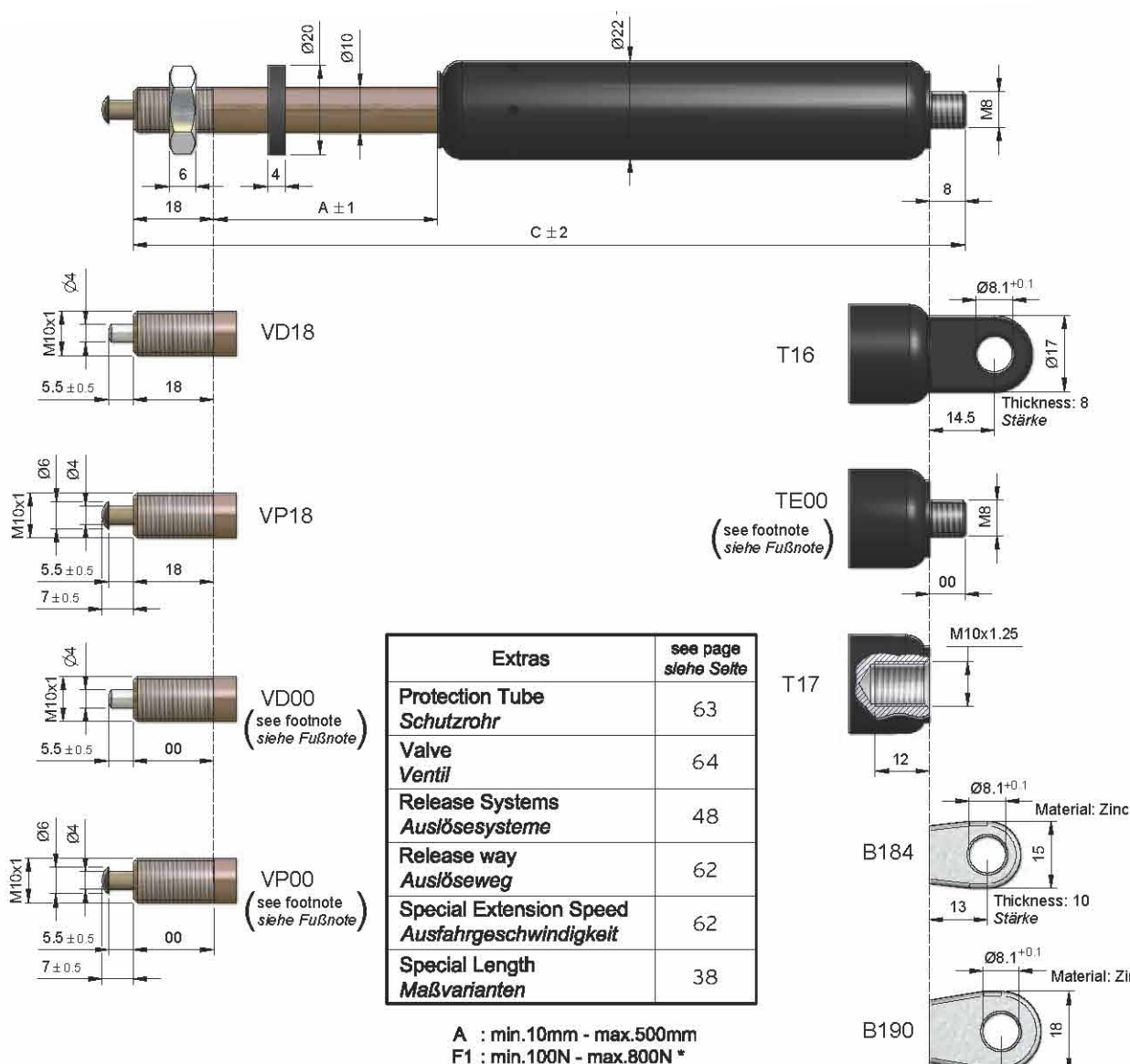
Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Rigid Blocking in extension / Starre Blockierung in Zugrichtung (BL1)



A	C	F1 (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
20	180	200	615 811 200	615 811 201
		250	615 811 250	615 811 251
		300	615 811 301	615 811 302
		350	615 811 350	615 811 201
		400	615 811 400	615 811 401
		500	615 811 500	615 811 501
		600	615 811 600	615 811 601
		700	615 811 700	615 811 701
30	205	200	615 821 200	615 821 201
		250	615 821 250	615 821 251
		300	615 821 300	615 821 301
		350	615 821 350	615 821 351
		400	615 821 400	615 821 401
		500	615 821 500	615 821 501
		600	615 821 600	615 821 601
		700	615 821 700	615 821 701
40	239	200	615 831 200	615 831 201
		250	615 831 250	615 831 251
		300	615 831 300	615 831 301
		350	615 831 350	615 831 351
		400	615 831 400	615 831 401
		500	615 831 500	615 831 501
		600	615 831 600	615 831 601
		700	615 831 700	615 831 701
60	281	200	615 841 201	615 841 202
		250	615 841 250	615 841 251
		300	615 841 300	615 841 301
		350	615 841 350	615 841 351
		400	615 841 400	615 841 401
		500	615 841 500	615 841 501
		600	615 841 601	615 841 602
		700	615 841 700	615 841 701
80	324	200	615 851 200	615 851 201
		250	615 851 250	615 851 251
		300	615 851 300	615 851 301
		350	615 851 351	615 851 352
		400	615 851 400	615 851 401
		500	615 851 500	615 851 501
		600	615 851 600	615 851 601
		700	615 851 700	615 851 701

A	C	F1 (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
100	373	200	615 861 200	615 861 201
		250	615 861 250	615 861 251
		300	615 861 300	615 861 301
		350	615 861 350	615 861 351
		400	615 861 400	615 861 401
		500	615 861 500	615 861 501
		600	615 861 600	615 861 601
		700	615 861 700	615 861 701
120	427	200	615 871 200	615 871 201
		250	615 871 250	615 871 251
		300	615 871 300	615 871 301
		350	615 871 350	615 871 351
		400	615 871 400	615 871 401
		500	615 871 500	615 871 501
		600	615 871 600	615 871 601
		700	615 871 700	615 871 701
160	518	200	615 881 200	615 881 201
		250	615 881 250	615 881 251
		300	615 881 300	615 881 301
		350	615 881 350	615 881 351
		400	615 881 400	615 881 401
200	615	200	615 891 200	615 891 201
		250	615 891 250	615 891 251
		300	615 891 300	615 891 301
		350	615 891 350	615 891 351
		400	615 891 400	615 891 401



Blocking types / Blockierungstypen

BL1 : Rigid Blocking in extension / Starre Blockierung in Zugrichtung
BL2 : Rigid Blocking in compression / Starre Blockierung in Druckrichtung
BL3 : Spring Blocking / Federnde Blockierung

ORDERING EXAMPLE / BESTELL BEISPIEL

BL1 - 10/22 - 30 - 215 - 200N - VP25 - TE12 - Extras

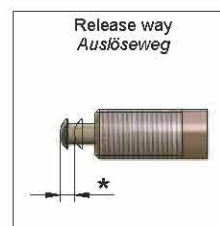
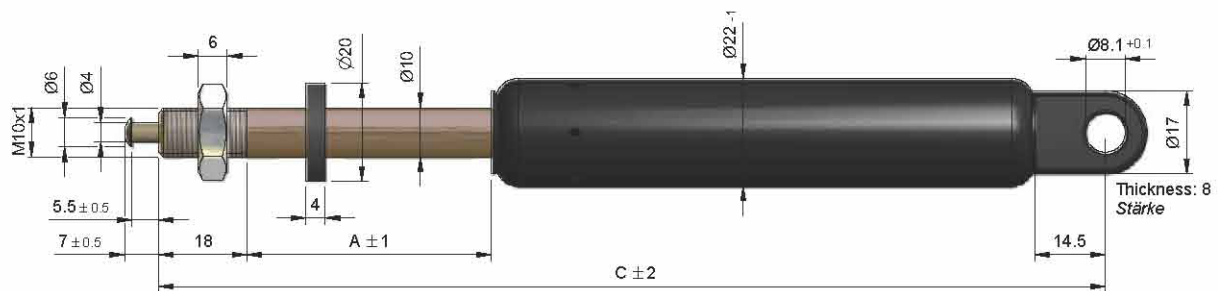
Group / Gruppe
Blocking type / Blockierungstyp
A - Stroke / Hub
C - Extended Length / Gesamtlänge
F1
Tube end fitting / Druckrohr-Anschluß
Piston rod thread / Kolbenstangengewinde

To specify a thread length for VD,VP and TE replace the '00' with the thread length you require. (Limit for VD and VP is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD,VP und TE den gewünschten Maß an Stelle von '00' vermerken (für VD und VP min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 800N in steps of 50N. / F1 Werte von 100 - 800N gestaffelt in 50N schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Rigid Blocking in extension / Starre Blockierung in Zugrichtung (BL1)



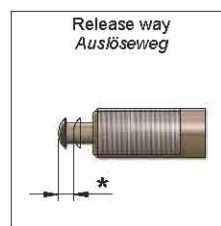
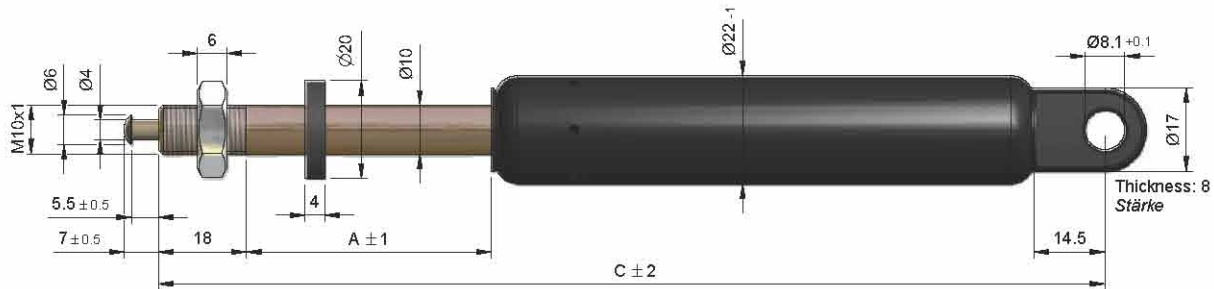
A	C	F ₁ (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
20	181.5	200	615 011 200	615 011 201
		250	615 011 251	615 011 252
		300	615 011 300	615 011 301
		350	615 011 350	615 011 351
		400	615 011 400	615 011 401
		500	615 011 502	615 011 503
		600	615 011 600	615 011 601
		700	615 011 700	615 011 701
30	218.5	200	615 021 200	615 021 201
		250	615 021 250	615 021 251
		300	615 021 300	615 021 301
		350	615 021 350	615 021 351
		400	615 021 400	615 021 401
		500	615 021 516	615 021 517
		600	615 021 602	615 021 603
		700	615 021 701	615 021 702
40	236.5	200	615 031 200	615 031 201
		250	615 031 251	615 031 252
		300	615 031 300	615 031 301
		350	615 031 350	615 031 351
		400	615 031 400	615 031 401
		500	615 031 501	615 031 502
		600	615 031 601	615 031 602
		700	615 031 700	615 031 701
60	293.5	200	615 041 201	615 041 202
		250	615 041 250	615 041 251
		300	615 041 301	615 041 302
		350	615 041 350	615 041 351
		400	615 041 400	615 041 401
		500	615 041 503	615 041 504
		600	615 041 600	615 041 601
		700	615 041 700	615 041 701
80	339.5	200	615 051 200	615 051 201
		250	615 051 250	615 051 251
		300	615 051 301	615 051 302
		350	615 051 350	615 051 351
		400	615 051 400	615 051 401
		500	615 051 500	615 051 501
		600	615 051 600	615 051 601
		700	615 051 700	615 051 701

A	C	F ₁ (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
100	387.5	200	615 061 200	615 061 201
		250	615 061 250	615 061 251
		300	615 061 300	615 061 301
		350	615 061 350	615 061 351
		400	615 061 400	615 061 401
		500	615 061 500	615 061 501
		600	615 061 600	615 061 601
		700	615 061 700	615 061 701
120	455	200	615 071 200	615 071 201
		250	615 071 250	615 071 251
		300	615 071 300	615 071 301
		350	615 071 350	615 071 351
		400	615 071 400	615 071 401
		500	615 071 500	615 071 501
		600	615 071 600	615 071 601
		700	615 071 700	615 071 701
160	569	200	615 081 200	615 081 201
		250	615 081 250	615 081 251
		300	615 081 300	615 081 301
		350	615 081 350	615 081 351
		400	615 081 400	615 081 401
		500	615 081 500	615 081 501
		600	615 081 600	615 081 601
		700	615 081 700	615 081 701
200	677	200	615 091 200	615 091 201
		250	615 091 250	615 091 251
		300	615 091 300	615 091 301
		350	615 091 350	615 091 351
		400	615 091 400	615 091 401
		500	615 091 500	615 091 501
		600	615 091 600	615 091 601
		700	615 091 700	615 091 701
250	814	200	615 001 200	615 001 201
		250	615 001 250	615 001 251
		300	615 001 300	615 001 301
		350	615 001 350	615 001 351
		400	615 001 400	615 001 401
		500	615 001 500	615 001 501
		600	615 001 600	615 001 601
		700	615 001 700	615 001 701

DESTEK reserves the right to choose any release pin type (either mushroom shape or cylindrical) according to production necessities.
Der Auslösesstift (Pilzkopf oder Zylindrisch) wird von DESTEK, je nach Produktionsnotwendigkeit, bestimmt.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Spring Blocking / Federnde Blockierung (BL3)



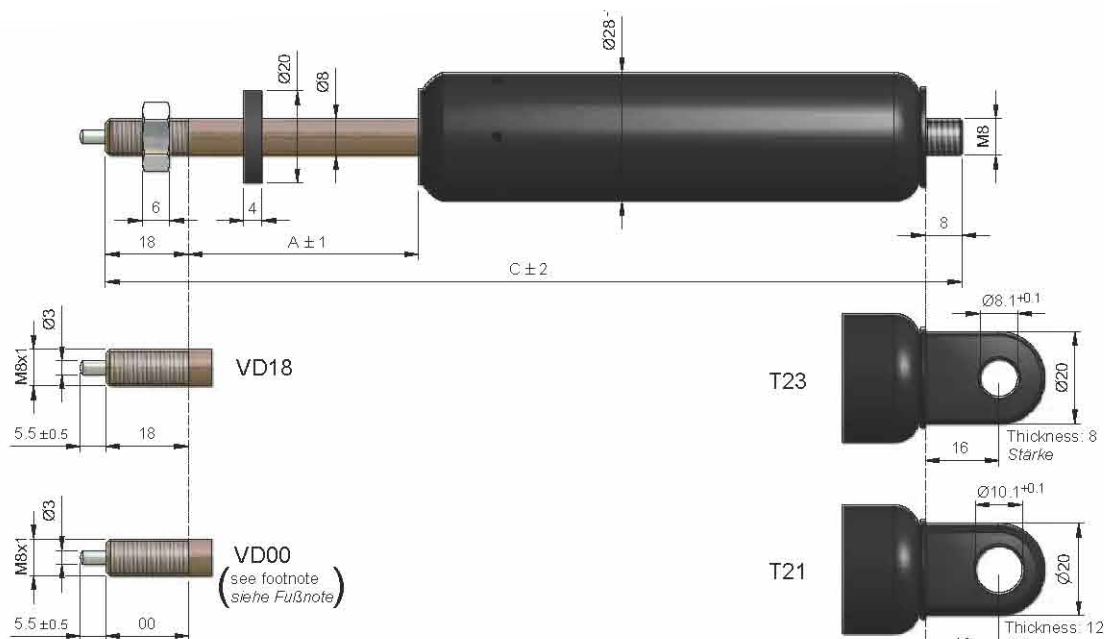
A	C	F1 (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
15	152	200	615 501 200	615 501 201
		250	615 501 250	615 501 251
		300	615 501 300	615 501 301
		350	615 501 350	615 501 351
		400	615 501 400	615 501 401
		500	615 501 501	615 501 502
		600	615 501 601	615 501 602
		700	615 501 700	615 501 701
20	161	200	615 511 200	615 511 201
		250	615 511 250	615 511 251
		300	615 511 300	615 511 301
		350	615 511 350	615 511 351
		400	615 511 400	615 511 401
		500	615 511 500	615 511 501
		600	615 511 600	615 511 601
		700	615 511 701	615 511 702
30	182	200	615 521 200	615 521 201
		250	615 521 250	615 521 251
		300	615 521 300	615 521 301
		350	615 521 350	615 521 351
		400	615 521 400	615 521 401
		500	615 521 500	615 521 501
		600	615 521 601	615 521 602
		700	615 521 701	615 521 702
40	203	200	615 531 200	615 531 201
		250	615 531 250	615 531 251
		300	615 531 300	615 531 301
		350	615 531 350	615 531 351
		400	615 531 400	615 531 401
		500	615 531 501	615 531 502
		600	615 531 601	615 531 602
		700	615 531 702	615 531 703
60	247	200	615 541 200	615 541 201
		250	615 541 250	615 541 251
		300	615 541 300	615 541 301
		350	615 541 350	615 541 351
		400	615 541 400	615 541 401
		500	615 541 500	615 541 501
		600	615 541 601	615 541 602
		700	615 541 700	615 541 701

A	C	F1 (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
80	282	200	615 551 200	615 551 201
		250	615 551 250	615 551 251
		300	615 551 300	615 551 301
		350	615 551 350	615 551 351
		400	615 551 400	615 551 401
		500	615 551 500	615 551 501
		600	615 551 600	615 551 601
		700	615 551 700	615 551 701
100	323	200	615 561 200	615 561 201
		250	615 561 250	615 561 251
		300	615 561 300	615 561 301
		350	615 561 350	615 561 351
		400	615 561 401	615 561 402
		500	615 561 500	615 561 501
		600	615 561 601	615 561 602
		700	615 561 700	615 561 701
120	362	200	615 571 200	615 571 201
		250	615 571 250	615 571 251
		300	615 571 300	615 571 301
		350	615 571 350	615 571 351
		400	615 571 400	615 571 401
		500	615 571 500	615 571 501
		600	615 571 600	615 571 601
		700	615 571 700	615 571 701
160	441	200	615 581 203	615 581 204
		250	615 581 250	615 581 251
		300	615 581 300	615 581 301
		350	615 581 350	615 581 351
		400	615 581 400	615 581 401
		500	615 581 500	615 581 501
		600	615 581 600	615 581 601
		700	615 581 700	615 581 701
200	522	200	615 591 201	615 591 202
		250	615 591 250	615 591 251
		300	615 591 300	615 591 301
		350	615 591 350	615 591 351
		400	615 591 401	615 591 402
		500	615 591 500	615 591 501
		600	615 591 600	615 591 601
		700	615 591 700	615 591 701

DESTEK reserves the right to choose any release pin type (either mushroom shape or cylindrical) according to production necessities.

Der Auslösestift (Pilzkopf oder Zylindrisch) wird von DESTEK, je nach Produktionsnotwendigkeit, bestimmt.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten



Extras	see page siehe Seite
Protection Tube Schutzrohr	63
Valve Ventil	64
Release Systems Auslösesysteme	48
Release way Auslöseweg	62
Special Extension Speed Ausfahrgeschwindigkeit	62
Special Length Maßvarianten	38

A : min.10mm - max.500mm

F1 : min.100N - max.1000N *

Blocking types / Blockierungstypen

BL1 : Rigid Blocking in extension / Starre Blockierung in Zugrichtung
BL2 : Rigid Blocking in compression / Starre Blockierung in Druckrichtung
BL3 : Spring Blocking / Federnde Blockierung

ORDERING EXAMPLE / BESTELL BEISPIEL

BL1 - 8/28 - 20 - 180 - 300N - VD25 - B190 - Extras

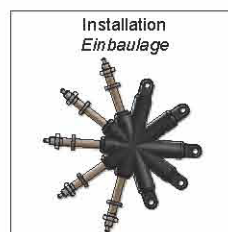
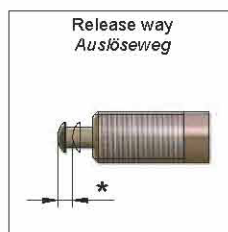
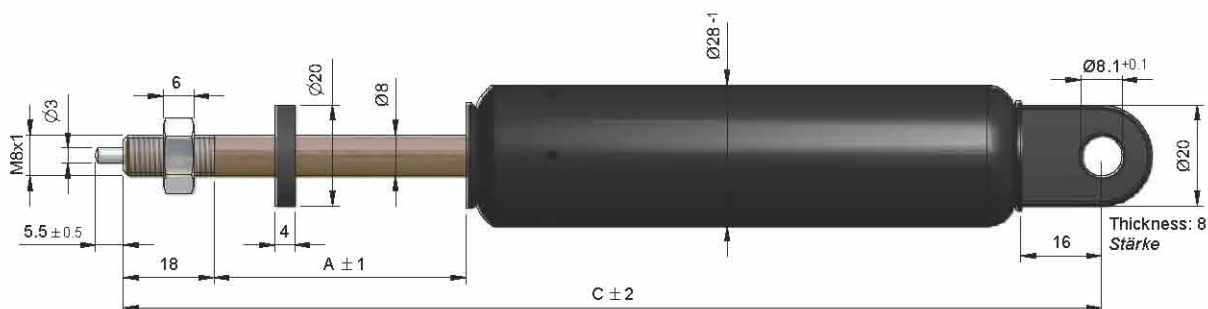
Blocking type / Blockierungstyp
 Group / Gruppe
 A - Stroke / Hub
 C - Extended Length / Gesamtlänge
 F1
 Tube end fitting / Druckrohr-Anschluß
 Piston rod thread / Kolbenstangengewinde

To specify a thread length for VD and TE replace the '00' with the thread length you require. (Limit for VD is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD und TE den gewünschten Maß an Stelle von '00' vermerken (für VD min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 800N in steps of 50N. / F1 Werte von 100 - 800N gestaffelt in 50N Schritten.

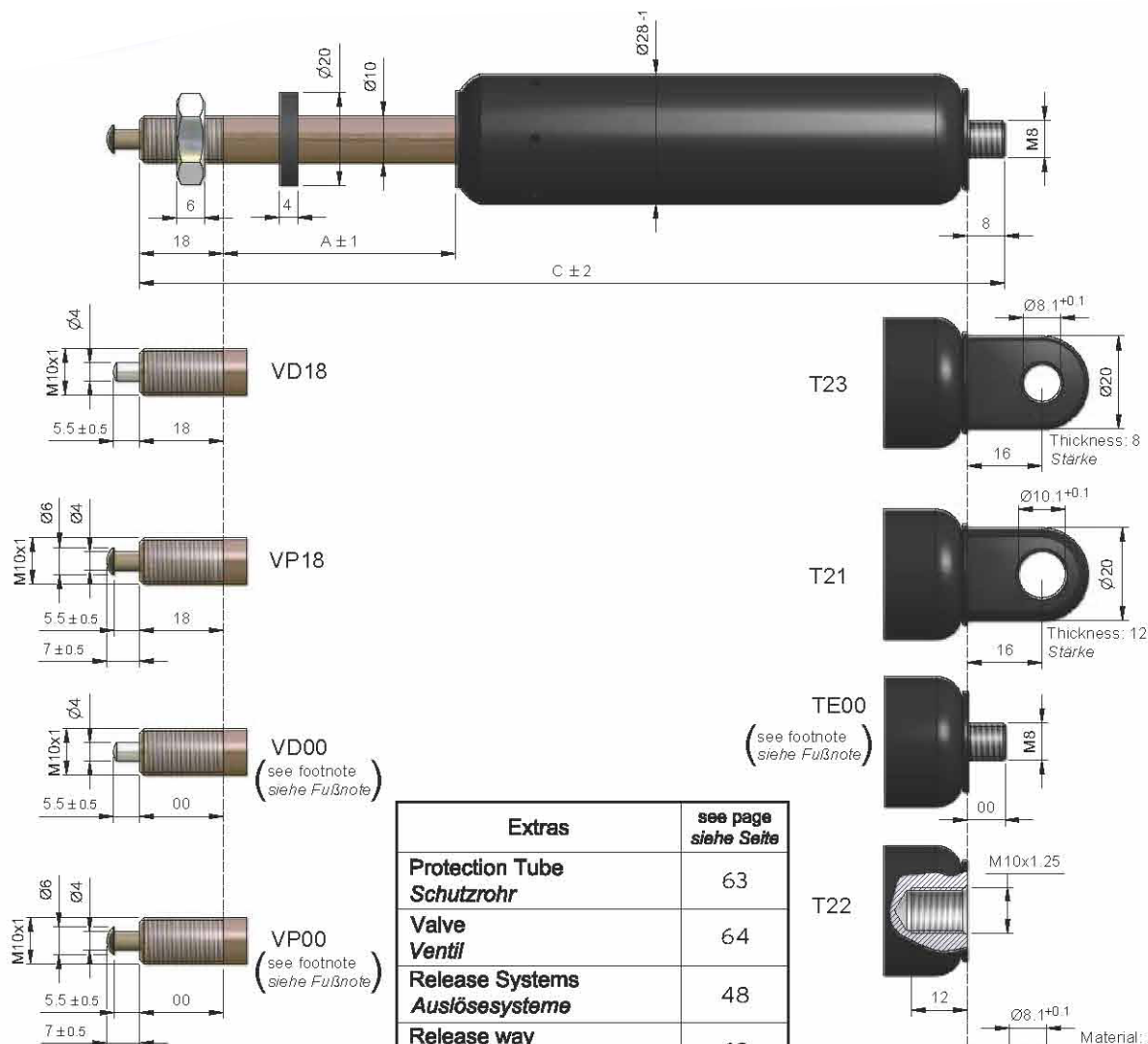
Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Spring Blocking / Federnde Blockierung (BL3)



A	C	F ₁ (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
20	146	200	616 411 001	616 411 002
		250	616 411 003	616 411 004
		300	616 411 005	616 411 006
		350	616 411 007	616 411 008
		400	616 411 009	616 411 010
		500	616 411 011	616 411 012
		600	616 411 013	616 411 014
		800	616 411 015	616 411 016
		1000	616 411 017	616 411 018
25	157	200	616 411 019	616 411 020
		250	616 411 021	616 411 022
		300	616 411 023	616 411 024
		350	616 411 025	616 411 026
		400	616 411 027	616 411 028
		500	616 411 029	616 411 030
		600	616 411 031	616 411 032
		800	616 411 033	616 411 034
		1000	616 411 035	616 411 036
30	168	200	616 421 001	616 421 002
		250	616 421 003	616 421 004
		300	616 421 005	616 421 006
		350	616 421 007	616 421 008
		400	616 421 009	616 421 010
		500	616 421 011	616 421 012
		600	616 421 013	616 421 014
		800	616 421 015	616 421 016
		1000	616 421 017	616 421 018
40	187	200	616 431 002	616 431 003
		250	616 431 004	616 431 005
		300	616 431 008	616 431 007
		350	616 431 008	616 431 009
		400	616 431 010	616 431 011
		500	616 431 012	616 431 013
		600	616 431 014	616 431 015
		800	616 431 016	616 431 017
		1000	616 431 018	616 431 019

A	C	F ₁ (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
60	228	200	616 441 001	616 441 002
		250	616 441 003	616 441 004
		300	616 441 005	616 441 006
		350	616 441 007	616 441 008
		400	616 441 009	616 441 010
		500	616 441 011	616 441 012
		600	616 441 013	616 441 014
		800	616 441 015	616 441 016
		1000	616 441 017	616 441 018
80	266	200	616 451 001	616 451 002
		250	616 451 003	616 451 004
		300	616 451 005	616 451 006
		350	616 451 007	616 451 008
		400	616 451 009	616 451 010
		500	616 451 011	616 451 012
		600	616 451 013	616 451 014
		800	616 451 015	616 451 016
		1000	616 451 017	616 451 018
100	307	200	616 461 001	616 461 002
		250	616 461 003	616 461 004
		300	616 461 005	616 461 006
		350	616 461 007	616 461 008
		400	616 461 009	616 461 010
		500	616 461 011	616 461 012
		600	616 461 013	616 461 014
		800	616 461 015	616 461 016
		1000	616 461 017	616 461 018



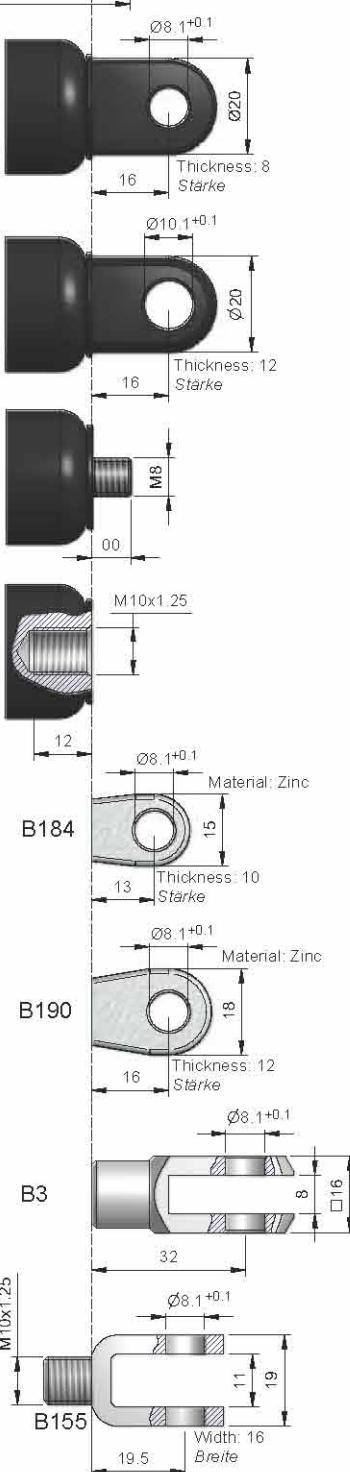
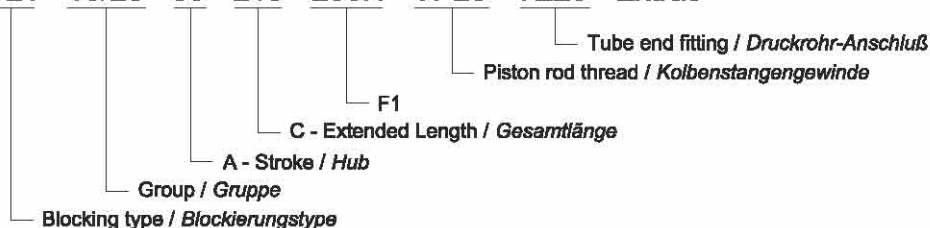
Extras	see page siehe Seite
Protection Tube Schutzrohr	63
Valve Ventil	64
Release Systems Auslösesysteme	48
Release way Auslöseweg	62
Special Extension Speed Ausfahrgeschwindigkeit	62
Special Length Maßvarianten	38

A : min.10mm - max.500mm
F1 : min.100N - max.1200N *

Blocking types / Blockierungstypen
BL1 : Rigid Blocking in extension / Starre Blockierung in Zugrichtung
BL2 : Rigid Blocking in compression / Starre Blockierung in Druckrichtung
BL3 : Spring Blocking / Federnde Blockierung

ORDERING EXAMPLE / BESTELL BEISPIEL

BL1 - 10/28 - 30 - 215 - 200N - VP25 - TE20 - Extras

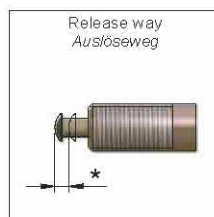
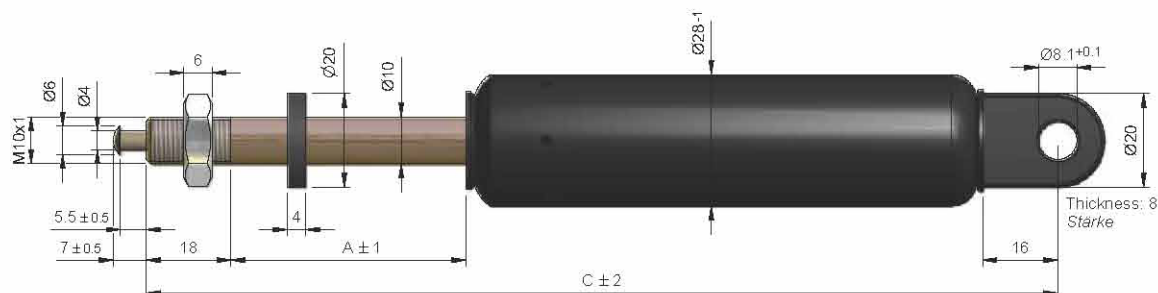


To specify a thread length for VD,VP and TE replace the '00' with the thread length you require. (Limit for VD and VP is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD,VP und TE den gewünschten Maß an Stelle von '00' vermerken (für VD und VP min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 1200N in steps of 50N. / F1 Werte von 100 - 1200N gestaffelt in 50N schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Rigid Blocking in extension / Starre Blockierung in Zugrichtung (BL1)



A	C	F1 (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
20	165	400	616 011 001	616 011 002
		500	616 011 003	616 011 004
		600	616 011 005	616 011 006
		700	616 011 007	616 011 008
		800	616 011 009	616 011 010
		1000	616 011 011	616 011 012
		1200	616 011 013	616 011 014
25	178	400	616 011 015	616 011 016
		500	616 011 017	616 011 018
		600	616 011 019	616 011 020
		700	616 011 021	616 011 022
		800	616 011 023	616 011 024
		1000	616 011 025	616 011 026
		1200	616 011 027	616 011 028
30	193	300	616 021 002	616 021 003
		400	616 021 004	616 021 005
		500	616 021 006	616 021 007
		600	616 021 008	616 021 009
		700	616 021 010	616 021 011
		800	616 021 012	616 021 013
		1000	616 021 014	616 021 015
40	213	1200	616 021 016	616 021 017
		300	616 031 003	616 031 004
		400	616 031 005	616 031 006
		500	616 031 007	616 031 008
		600	616 031 009	616 031 010
		700	616 031 011	616 031 012
		800	616 031 013	616 031 014
60	265	1000	616 031 015	616 031 016
		200	616 041 002	616 041 003
		300	616 041 004	616 041 005
		400	616 041 006	616 041 007
		500	616 041 008	616 041 009
		600	616 041 010	616 041 011
		700	616 041 012	616 041 013
80	310	800	616 041 014	616 041 015
		1000	616 041 016	616 041 017
		200	616 051 002	616 051 003
		300	616 051 004	616 051 005
		400	616 051 006	616 051 007
		500	616 051 008	616 051 009
		600	616 051 010	616 051 011
		700	616 051 012	616 051 013
		800	616 051 014	616 051 015
		1000	616 051 016	616 051 017

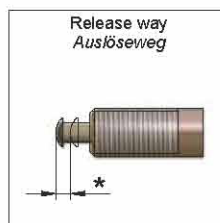
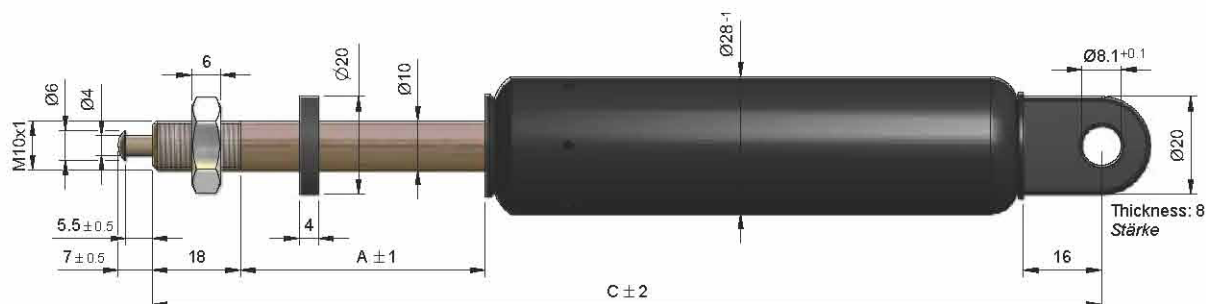
A	C	F1 (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
100	370	200	616 061 002	616 061 003
		300	616 061 004	616 061 005
		400	616 061 006	616 061 007
		500	616 061 008	616 061 009
		600	616 061 010	616 061 011
		700	616 061 012	616 061 013
		800	616 061 014	616 061 015
120	420	200	616 071 005	616 071 006
		300	616 071 007	616 071 008
		400	616 071 009	616 071 010
		500	616 071 011	616 071 012
		600	616 071 013	616 071 014
		700	616 071 015	616 071 016
		800	616 071 017	616 071 018
160	510	200	616 081 006	616 081 007
		250	616 081 008	616 081 009
		300	616 081 010	616 081 011
		350	616 081 012	616 081 013
		400	616 081 014	616 081 015
		500	616 081 016	616 081 017
		600	616 081 018	616 081 019
200	600	700	616 081 020	616 081 021
		800	616 081 022	616 081 023
		200	616 091 002	616 091 003
		250	616 091 004	616 091 005
		300	616 091 006	616 091 007
		350	616 091 008	616 091 009
		400	616 091 010	616 091 011
250	720	500	616 091 012	616 091 013
		600	616 091 014	616 091 015
		700	616 091 016	616 091 017
		800	616 091 018	616 091 019
		200	616 001 001	616 001 002
		250	616 001 003	616 001 004
		300	616 001 005	616 001 006
		350	616 001 007	616 001 008
		400	616 001 009	616 001 010
		500	616 001 011	616 001 012
		600	616 001 013	616 001 014
		800	616 001 015	616 001 016

DESTEK reserves the right to choose any release pin type (either mushroom shape or cylindrical) according to production necessities.

Der Auslösestift (Pilzkopf oder Zylindrisch) wird von DESTEK, je nach Produktionsnotwendigkeit, bestimmt.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Rigid Blocking in compression / Starre Blockierung in Druckrichtung (BL2)



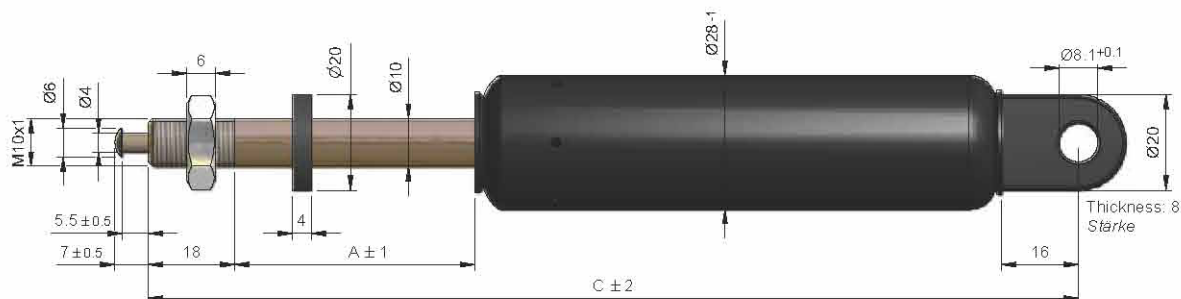
A	C	F1 (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
20	192	400	616 011 029	616 011 030
		500	616 011 031	616 011 032
		600	616 011 033	616 011 034
		700	616 011 035	616 011 036
		800	616 011 037	616 011 038
		1000	616 011 039	616 011 040
		1200	616 011 041	616 011 042
25	205	400	616 011 043	616 011 044
		500	616 011 045	616 011 046
		600	616 011 047	616 011 048
		700	616 011 049	616 011 050
		800	616 011 051	616 011 052
		1000	616 011 053	616 011 054
		1200	616 011 055	616 011 056
30	220	300	616 021 018	616 021 019
		400	616 021 020	616 021 021
		500	616 021 022	616 021 023
		600	616 021 024	616 021 025
		700	616 021 026	616 021 027
		800	616 021 028	616 021 029
		1000	616 021 030	616 021 031
40	242	1200	616 021 032	616 021 033
		300	616 031 017	616 031 018
		400	616 031 019	616 031 020
		500	616 031 021	616 031 022
		600	616 031 023	616 031 024
		700	616 031 025	616 031 026
		800	616 031 027	616 031 028
60	290	1000	616 031 029	616 031 030
		200	616 041 018	616 041 019
		300	616 041 020	616 041 021
		400	616 041 022	616 041 023
		500	616 041 024	616 041 025
		600	616 041 026	616 041 027
		700	616 041 028	616 041 029
80	350	800	616 041 030	616 041 031
		1000	616 041 032	616 041 033
		200	616 051 018	616 051 019
		300	616 051 020	616 051 021
		400	616 051 022	616 051 023
		500	616 051 024	616 051 025
		600	616 051 026	616 051 027
		700	616 051 028	616 051 029
		800	616 051 030	616 051 031
		1000	616 051 032	616 051 033

A	C	F1 (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
100	400	200	616 061 016	616 061 017
		300	616 061 018	616 061 019
		400	616 061 020	616 061 021
		500	616 061 022	616 061 023
		600	616 061 024	616 061 025
		700	616 061 026	616 061 027
		800	616 061 028	616 061 029
120	450	200	616 071 019	616 071 020
		300	616 071 021	616 071 022
		400	616 071 023	616 071 024
		500	616 071 025	616 071 026
		600	616 071 027	616 071 028
		700	616 071 029	616 071 030
		800	616 071 031	616 071 032
160	545	200	616 081 024	616 081 025
		250	616 081 026	616 081 027
		300	616 081 028	616 081 029
		350	616 081 030	616 081 031
		400	616 081 032	616 081 033
		500	616 081 034	616 081 035
		600	616 081 036	616 081 037
200	642	700	616 081 038	616 081 039
		800	616 081 040	616 081 041
		200	616 091 020	616 091 021
		250	616 091 022	616 091 023
		300	616 091 024	616 091 025
		350	616 091 026	616 091 027
		400	616 091 028	616 091 029
250	762	500	616 091 030	616 091 031
		600	616 091 032	616 091 033
		700	616 091 034	616 091 035
		800	616 091 036	616 091 037
		200	616 001 017	616 001 018
		250	616 001 019	616 001 020
		300	616 001 021	616 001 022
		350	616 001 023	616 001 024
		400	616 001 025	616 001 026
		500	616 001 027	616 001 028
		600	616 001 029	616 001 030
		800	616 001 031	616 001 032

DESTEK reserves the right to choose any release pin type (either mushroom shape or cylindrical) according to production necessities.
Der Auslösestift (Pilzkopf oder Zylindrisch) wird von DESTEK, je nach Produktionsnotwendigkeit, bestimmt.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Spring Blocking / Federnde Blockierung (BL3)



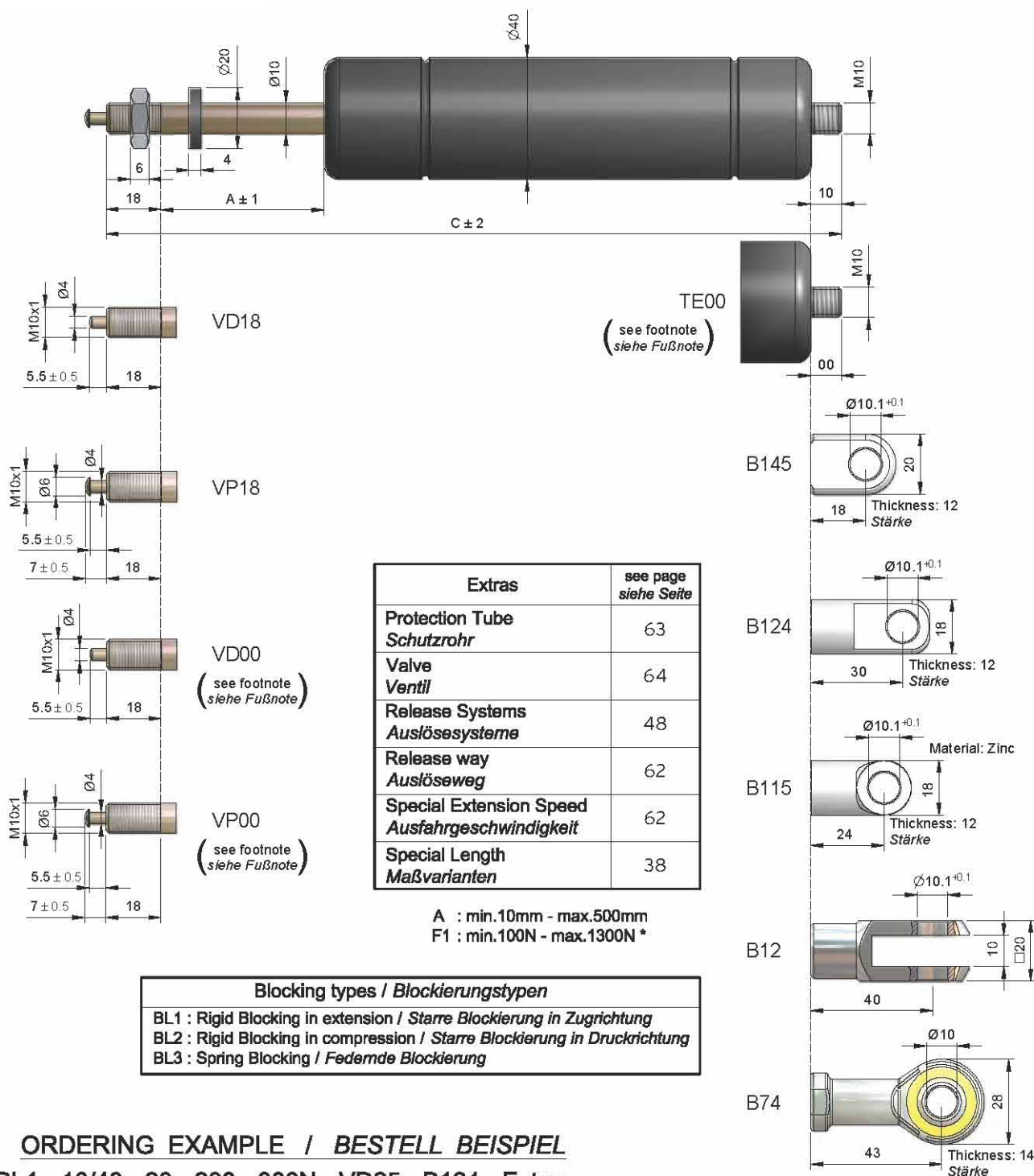
A	C	F1 (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
20	150	400	616 511 001	616 511 002
		500	616 511 003	616 511 004
		600	616 511 005	616 511 006
		700	616 511 007	616 511 008
		800	616 511 009	616 511 010
		1000	616 511 011	616 511 012
		1200	616 511 013	616 511 014
25	158	400	616 511 015	616 511 016
		500	616 511 017	616 511 018
		600	616 511 019	616 511 020
		700	616 511 021	616 511 022
		800	616 511 023	616 511 024
		1000	616 511 025	616 511 026
		1200	616 511 027	616 511 028
30	169	300	616 521 001	616 521 002
		400	616 521 003	616 521 004
		500	616 521 005	616 521 006
		600	616 521 007	616 521 008
		700	616 521 009	616 521 010
		800	616 521 011	616 521 012
		1000	616 521 013	616 521 014
40	188	300	616 531 003	616 531 004
		400	616 531 005	616 531 006
		500	616 531 007	616 531 008
		600	616 531 009	616 531 010
		700	616 531 011	616 531 012
		800	616 531 013	616 531 014
		1000	616 531 015	616 531 016
60	228	200	616 541 001	616 541 002
		300	616 541 003	616 541 004
		400	616 541 005	616 541 006
		500	616 541 007	616 541 008
		600	616 541 009	616 541 010
		700	616 541 011	616 541 012
		800	616 541 013	616 541 014
80	269	1000	616 541 015	616 541 016
		200	616 551 001	616 551 002
		300	616 551 003	616 551 004
		400	616 551 005	616 551 006
		500	616 551 007	616 551 008
		600	616 551 009	616 551 010
		700	616 551 011	616 551 012
		800	616 551 013	616 551 014
		1000	616 551 015	616 551 016

A	C	F1 (N)	Art. No.	
			Release way Auslöseweg * 1.5 mm	Release way Auslöseweg * 2.5 mm
100	310	200	616 561 001	616 561 002
		300	616 561 003	616 561 004
		400	616 561 005	616 561 006
		500	616 561 007	616 561 008
		600	616 561 009	616 561 010
		700	616 561 011	616 561 012
		800	616 561 013	616 561 014
120	348	200	616 571 001	616 571 002
		300	616 571 003	616 571 004
		400	616 571 005	616 571 006
		500	616 571 007	616 571 008
		600	616 571 009	616 571 010
		700	616 571 011	616 571 012
		800	616 571 013	616 571 014
160	430	200	616 581 001	616 581 002
		250	616 581 003	616 581 004
		300	616 581 005	616 581 006
		350	616 581 007	616 581 008
		400	616 581 009	616 581 010
		500	616 581 011	616 581 012
		600	616 581 013	616 581 014
200	509	700	616 581 015	616 581 016
		800	616 581 017	616 581 018
		200	616 591 001	616 591 002
		250	616 591 003	616 591 004
		300	616 591 005	616 591 006
		350	616 591 007	616 591 008
		400	616 591 009	616 591 010
250	610	500	616 591 011	616 591 012
		600	616 591 013	616 591 014
		700	616 591 015	616 591 016
		800	616 591 017	616 591 018
		200	616 501 001	616 501 002
		250	616 501 003	616 501 004
		300	616 501 005	616 501 006
		350	616 501 007	616 501 008
		400	616 501 009	616 501 010
		500	616 501 011	616 501 012
		600	616 501 013	616 501 014
		800	616 501 015	616 501 016

DESTEK reserves the right to choose any release pin type (either mushroom shape or cylindrical) according to production necessities.

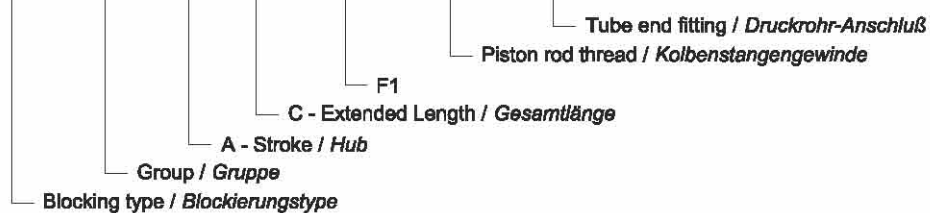
Der Auslösestift (Pilzkopf oder Zylindrisch) wird von DESTEK, je nach Produktionsnotwendigkeit, bestimmt.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten



ORDERING EXAMPLE / BESTELL BEISPIEL

BL1 - 10/40 - 20 - 200 - 300N - VD25 - B124 - Extras



To specify a thread length for VD,VP and TE replace the '00' with the thread length you require. (Limit for VD and VP is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD,VP und TE den gewünschten Maß an Stelle von '00' vermerken (für VD und VP min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 1300N in steps of 50N. / F1 Werte von 100 - 1300N gestaffelt in 50N schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten



BL4 - Hydrostop rigid in extension and compression

The Hydrostop differs from the Blocklift gas springs in its inner structure which allows the unit to provide rigidity in extension and compression. Whereas BL1 and BL2 type Blocklifts are only rigid in one direction, the Hydrostop (BL4) is totally rigid in both the extension and compression directions.

The BL4 Hydrostop is available with or without extension force. While the Hydrostop without extension force is only for damping and total rigidity, the Hydrostop with extension force also provides an additional self extension feature. The Hydrostop is available in 10/22, 10/28, 10/40 and 14/40. The following pages show standard measurements for 10/22 and 10/28 types with dimensions, available end fittings and extras to ensure optimum function and lifetime of the Hydrostop. Please consult our sales team for 10/40 and 14/40 Hydrostops.

Available Types

The BL4 - Hydrostop is available with and without extension force.

● Hydrostop without extension force

This type does not have any extension force and is therefore most suitable for applications that do not require any force support but damping and accurate locking. This type Hydrostop will not extend by itself and the piston rod needs to be pulled out by the application, in other words the application's movement is not controlled by the Hydrostop.

● Hydrostop with extension force

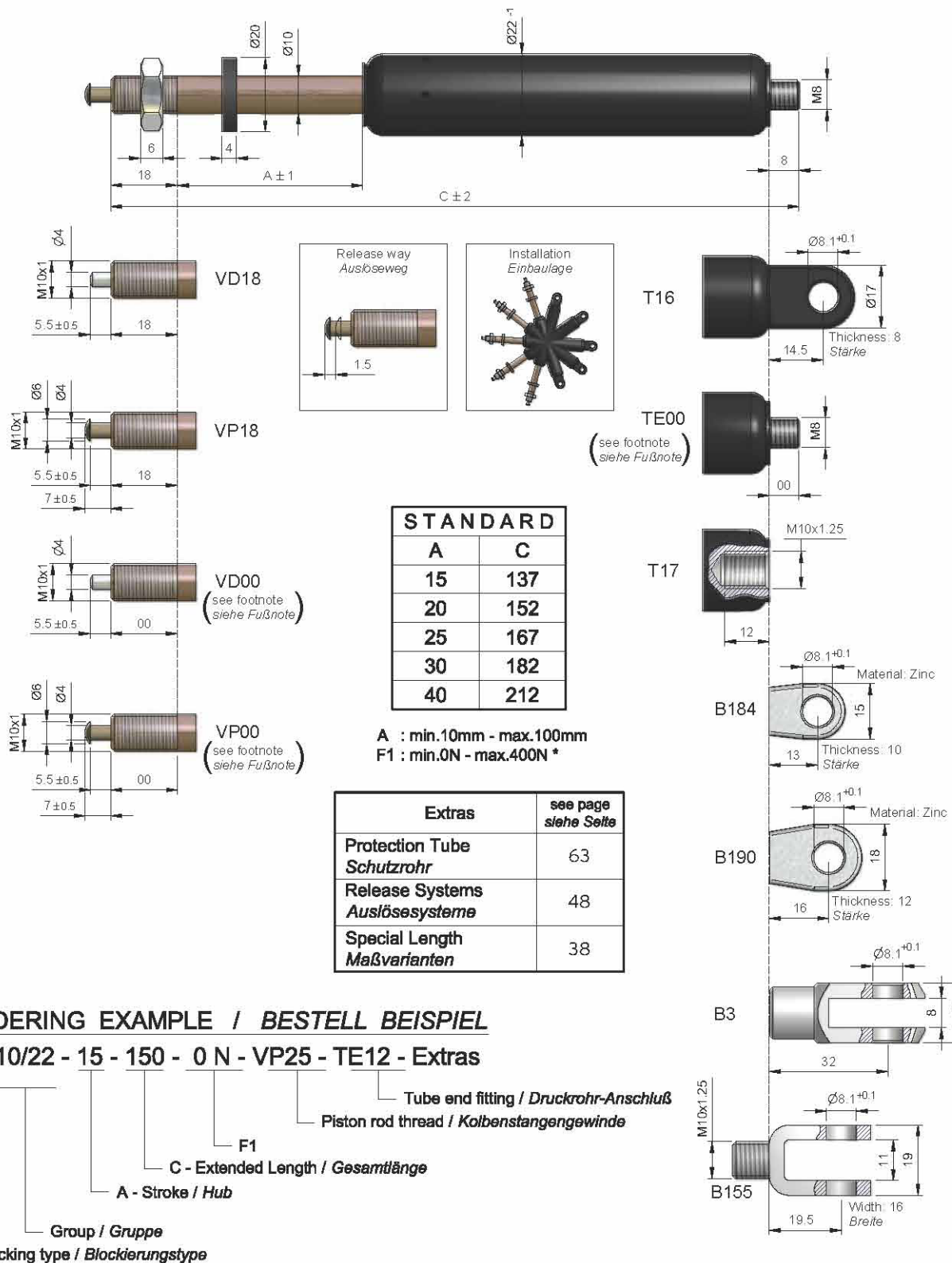
This type of Hydrostop provides the damping and locking features with the addition of extension force. This is preferred where self extension of the unit is required on the application. The extension force range goes up to 400N but it is recommended that a minimum F1 of 100N is chosen to ensure self extension of the unit.

Applications

Hydrostop Blocklifts are found in medical equipment applications for various positioning, in furniture as an adjustment element for backrests, in the automotive industry for the length adjustment of the steering column and as well as for inclination adjustment on seating.



Rigid Blocking in compression - extension (BL4)
Starre Blockierung in Druckrichtung - Zugrichtung



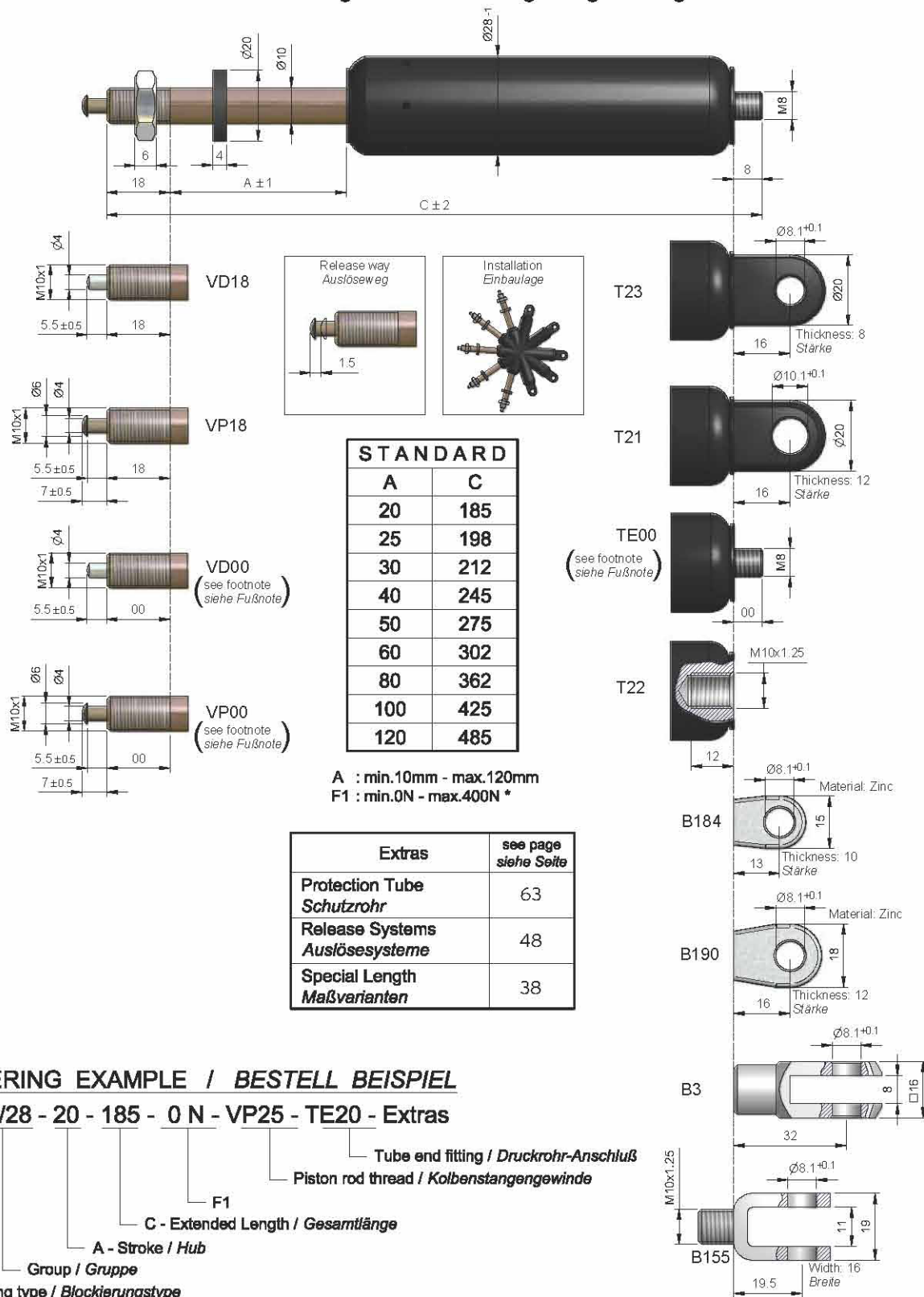
To specify a thread length for VD,VP and TE replace the '00' with the thread length you require. (Limit for VD and VP is min.12mm/max.30mm) e.g. VD21,TE55
 Bei Angaben der Gewindelänge von VD,VP und TE den gewünschten Maß an Stelle von '00' vermerken (für VD und VP min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 0 - 400N in steps of 50N. / F1 Werte von 0 - 400N gestaffelt in 50N schritten.

To ensure self extension we suggest min. F1=100N. / Für freies ausfahren empfehlen wir min. F1=100N

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Rigid Blocking in compression - extension (BL4)
Starre Blockierung in Druckrichtung - Zugrichtung



To specify a thread length for VD,VP and TE replace the '00' with the thread length you require. (Limit for VD and VP is min.12mm/max.30mm) e.g. VD21,TE55
 Bei Angaben der Gewindelänge von VD,VP und TE den gewünschten Maß an Stelle von '00' vermerken (für VD und VP min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 0 - 400N in steps of 50N. / F1 Werte von 0 - 400N gestaffelt in 50N Schritten.

To ensure self extension we suggest min. F1=100N. / Für freies ausfahren empfehlen wir min. F1=100N

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

BL5 - M-Blocklift

For applications such as height adjustment (i.e. single column tables, desks, etc.) there is the M-Blocklift (BL5) gas spring which has a particularly flat spring characteristic curve, providing an almost even force over the entire stroke. Another benefit of the BL5 is that it has a compact design with a long stroke and that it can be installed in any desired position.

Benefits & Advantages

The benefits of the BL5 M-Blocklift are:

- **Low progression**

Particularly flat spring characteristic curve – almost even force over the entire stroke range.

- **Compact size**

Longer working stroke for the same tube length compared to a regular Blocklift.

- **Fast extension speed**

The extension speed is chosen to ensure comfortable control of most height adjustment applications.

- **Relatively rigid**

The design of the M-Blocklift is neither Spring nor Rigid Blocking. Compared to Spring Blocking gas springs it is 'relatively rigid in compression'.

- **Independent installation position**

M-Blocklift gas springs can be mounted either with the piston rod upwards or downwards. This allows actuation by hand or foot lever.

- **Short release way**

The 'short release way' is standard on BL5 M-Blocklift gas springs.

Application Possibilities

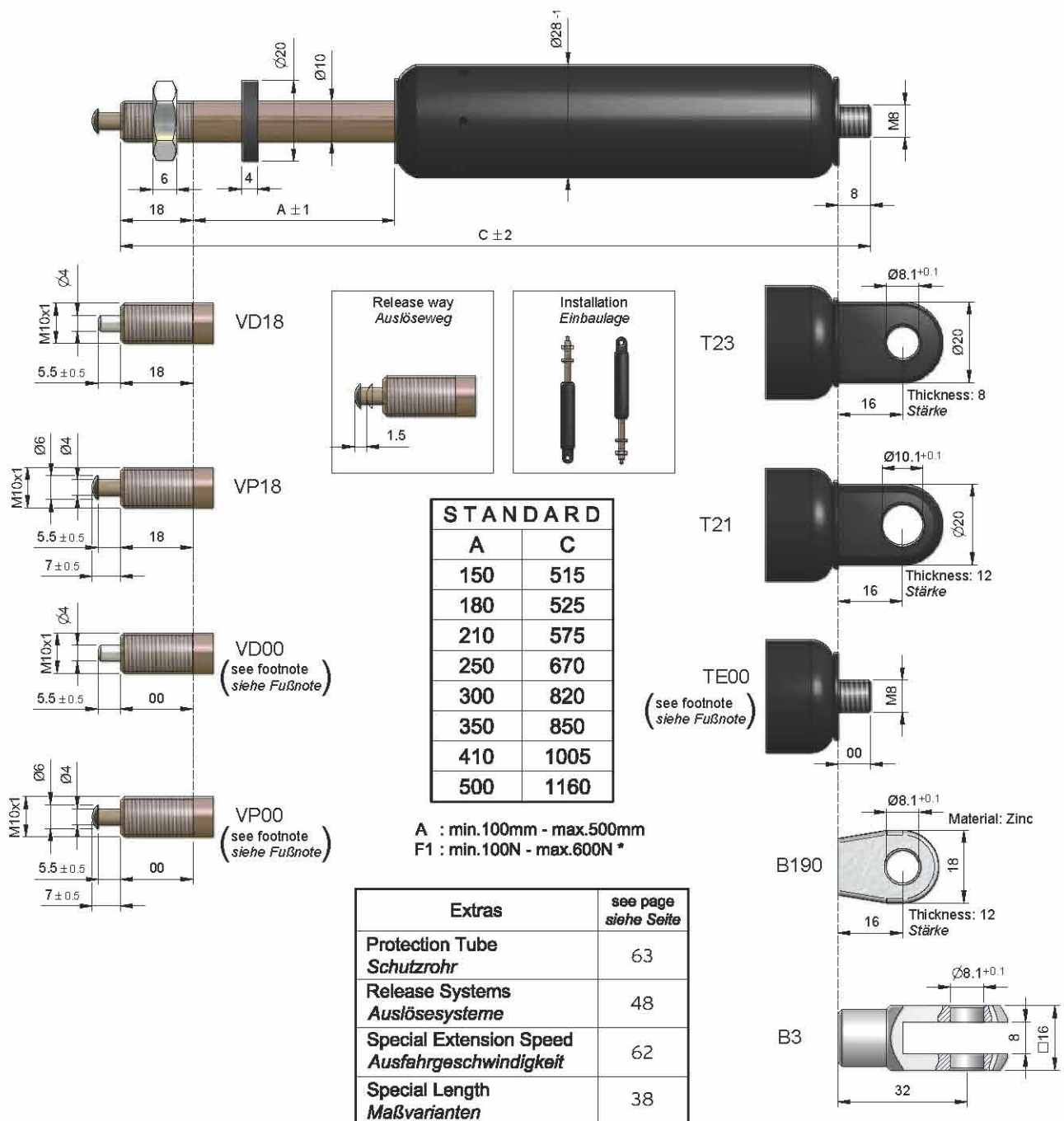
There are numerous applications for the M-Blocklift:

- Stand-up tables (single-column desks) & Desks (two-column desks)
- Speaker pulpits
- Height-adjustable work surfaces

Important Notice

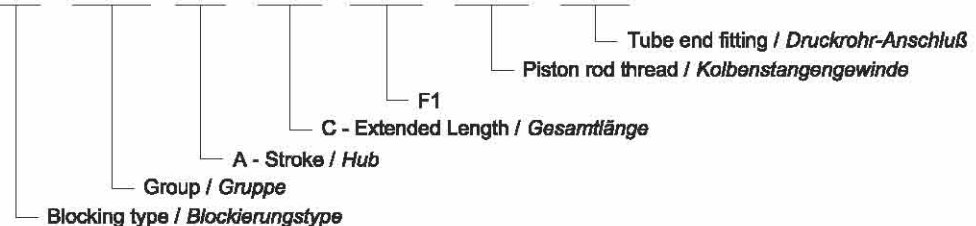
- For longer lifetime expectancy, both the installation of the gas spring and the guide should be free from sideforces and jamming forces.
- The ambient temperature for BL5 gas springs is 0°C to +40°C.





ORDERING EXAMPLE / BESTELL BEISPIEL

BL5 - 10/28 - 410 - 1005 - 300N - VD25 - TE20 - Extras



To specify a thread length for VD,VP and TE replace the '00' with the thread length you require. (Limit for VD and VP is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD,VP und TE den gewünschten Maß an Stelle von '00' vermerken (für VD und VP min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 600N in steps of 50N. / F1 Werte von 100 - 600N gestaffelt in 50N Schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Single direction locking Blocklift gas springs

The basic Blocklift gas spring requires actuation of the release pin for movement in any direction. In other words, the release pin must be operated to extend or compress the gas spring. However, on some applications a locking control in only one direction while a free movement in the opposite direction is desirable. For such applications there is the BL6 and BL7 gas springs which provide single direction locking only.

● BL6 – Locking in extension - free travel in compression

Due to its locking system, which opens itself under load in compression direction, the gas spring can be compressed without the need of pressing the release pin. However, the BL6 gas springs provide rigid locking in extension and will not extend until the release function is activated by pressing the release pin. This gas spring fits your needs where you want to control your application/gas spring in extension (push out) direction but prefer it to compress without any actuation mechanism.

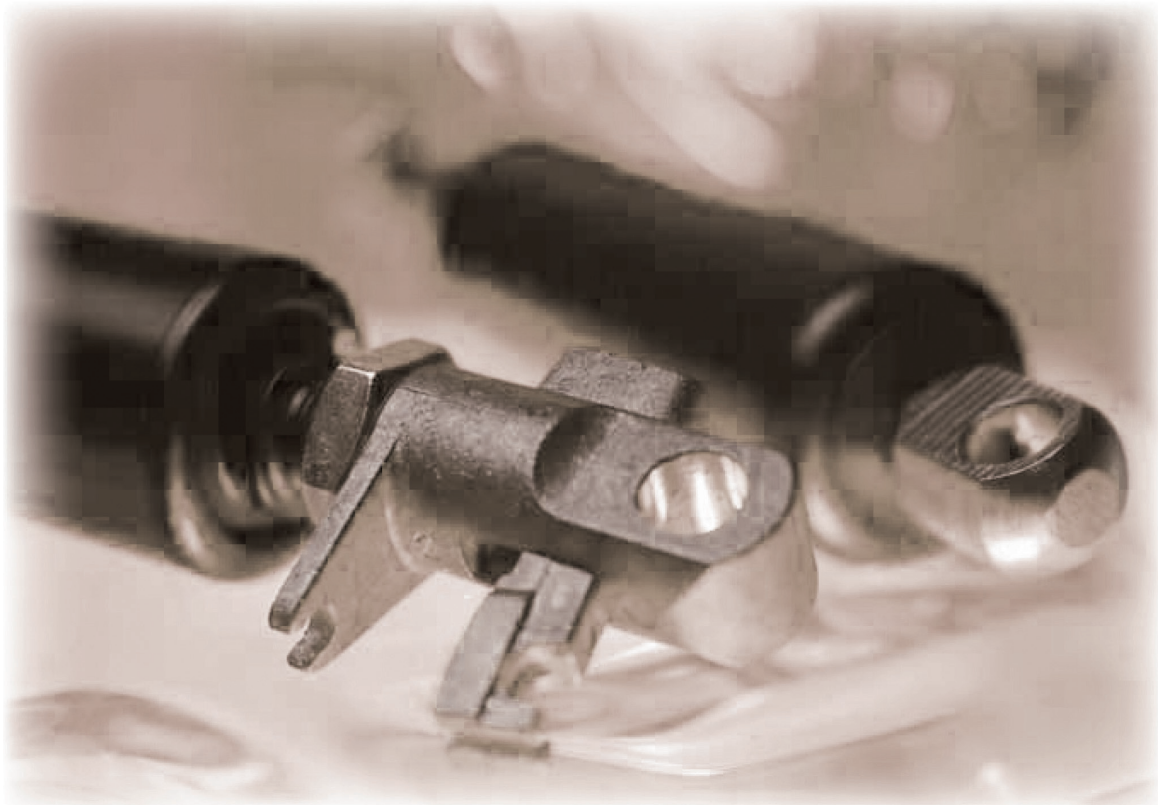
● BL7 – Locking in compression - free travel in extension

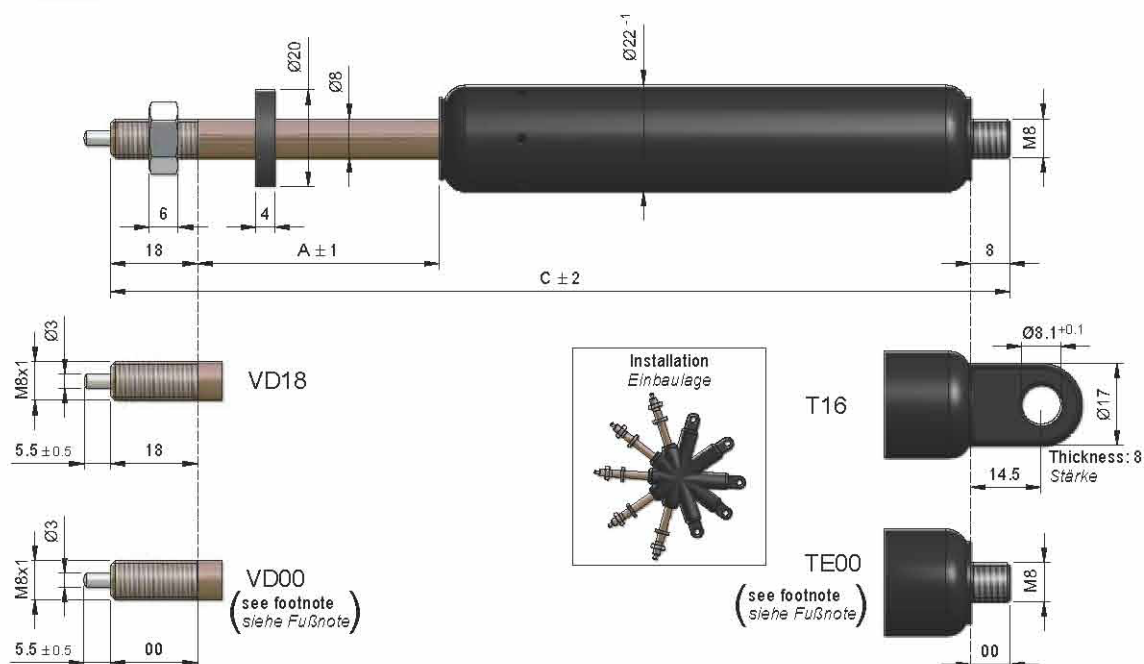
The BL7 type is only lockable in compression (push in) direction. The locking system of this Blocklift unlocks as soon as the applied weight is taken off. Due to this special feature, the gas spring extends without need of operating the release pin. The BL7 Blocklift provides rigid locking in compression and can only be compressed when the release pin is operated.

This function is often needed in hospital bedside tables, since it allows effortless height adjustment of the table while providing rigid locking in the compression direction.

Application Possibilities

- Monitor height adjustments
- Height adjustable tables, i.e. hospital over bed tables
- Passenger seats on buses
- Hospital beds





Extras	see page siehe Seite
Protection Tube Schutzrohr	63
Valve Ventil	64
Release Systems Auslösesysteme	48
Release way Auslöseweg	62
Special Extension Speed Ausfahrgeschwindigkeit	62
Special Length Maßvarianten	38

A : min.10mm - max.500mm
F1 : min.100N - max.800N *

Blocking types / Blockierungstypen
BL6 : Locking in extension - free travel in compression Blockierbar in Ausschubrichtung - frei Einfahrend
BL7 : Locking in compression - free travel in extension Blockierbar in Einschubrichtung - frei Ausfahrend

ORDERING EXAMPLE / BESTELL BEISPIEL

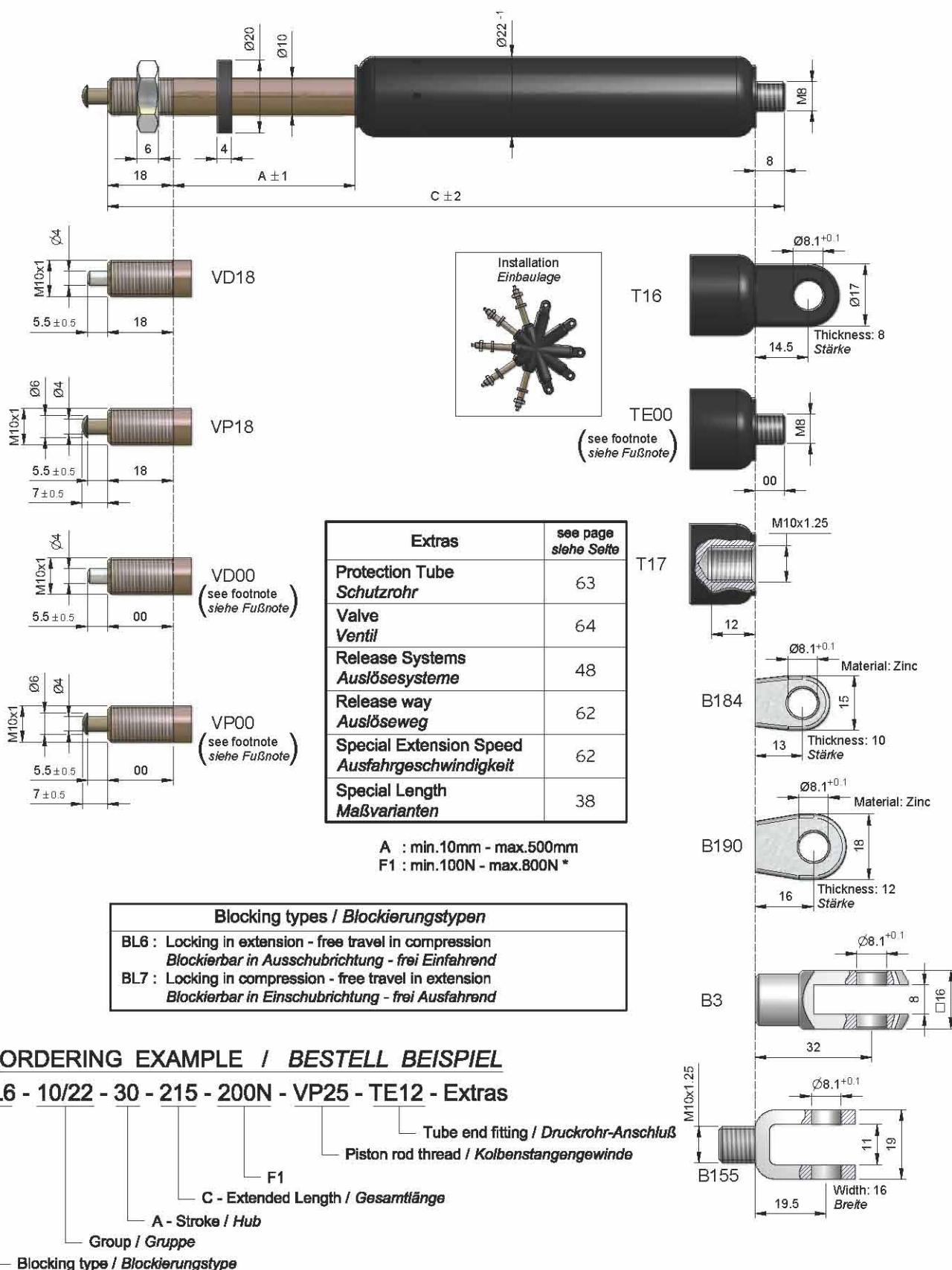
BL6 - 8/22 - 30 - 215 - 200N - VD25 - TE12 - Extras

Group / Gruppe
Blocking type / Blockierungstyp
A - Stroke / Hub
C - Extended Length / Gesamtlänge
F1
Piston rod thread / Kolbenstangengewinde
Tube end fitting / Druckrohr-Anschluß

To specify a thread length for VD and TE replace the '00' with the thread length you require. (Limit for VD is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD und TE den gewünschten Maß an Stelle von '00' vermerken (für VD min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 800N in steps of 50N. / F1 Werte von 100 - 800N gestaffelt in 50N schritten.

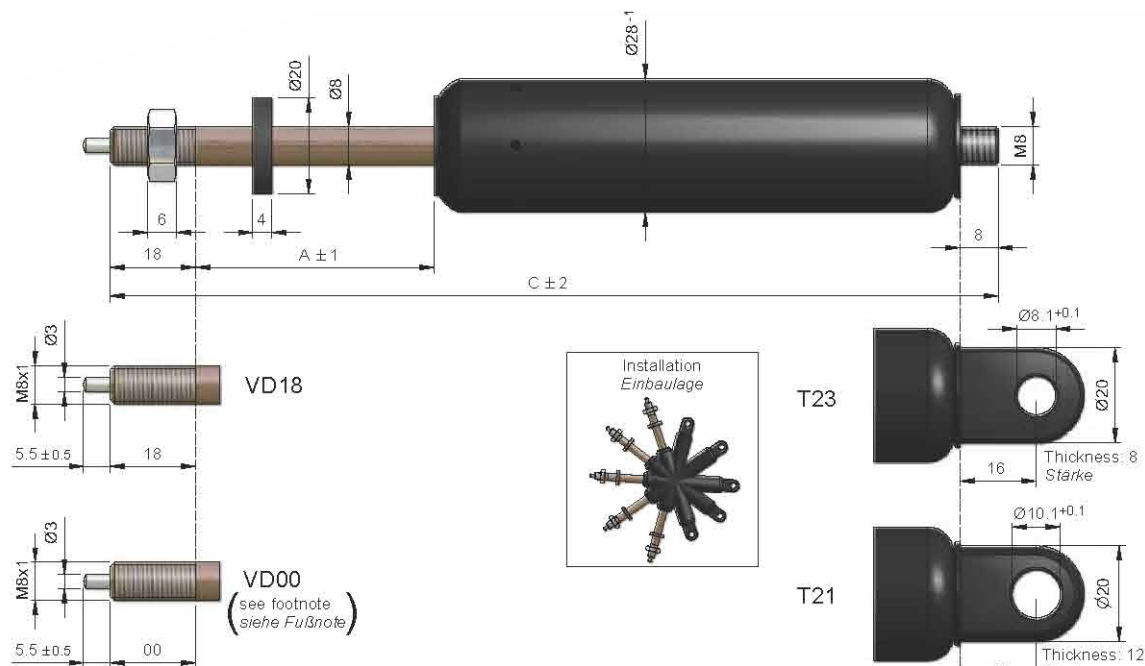
Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten



To specify a thread length for VD,VP and TE replace the '00' with the thread length you require. (Limit for VD and VP is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD,VP und TE den gewünschten Maß an Stelle von '00' vermerken (für VD und VP min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 800N in steps of 50N. / F1 Werte von 100 - 800N gestaffelt in 50N schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten



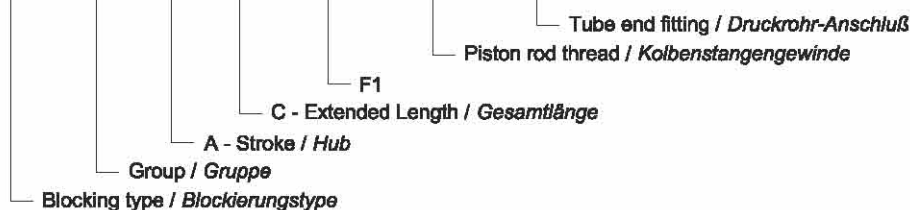
Extras	see page siehe Seite
Protection Tube Schutzrohr	63
Valve Ventil	64
Release Systems Auslösesysteme	48
Release way Auslöseweg	62
Special Extension Speed Ausfahrgeschwindigkeit	62
Special Length Maßvarianten	38

A : min.10mm - max.500mm
F1 : min.100N - max.800N *

Blocking types / Blockierungstypen
BL6 : Locking in extension - free travel in compression Blockierbar in Ausschubrichtung - frei Einfahrend
BL7 : Locking in compression - free travel in extension Blockierbar in Einschubrichtung - frei Ausfahrend

ORDERING EXAMPLE / BESTELL BEISPIEL

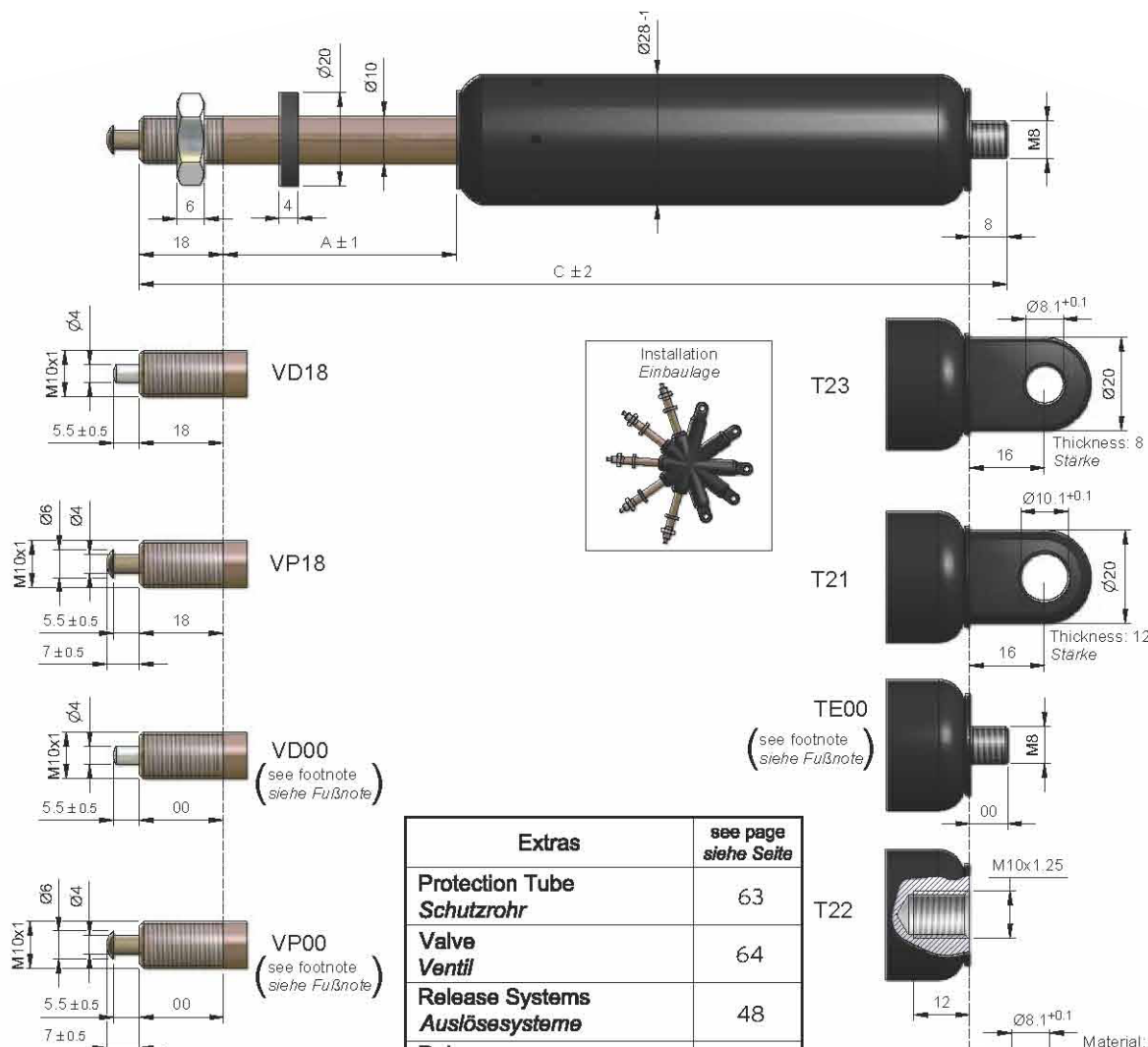
BL6 - 8/28 - 20 - 180 - 300N - VD25 - B190 - Extras



To specify a thread length for VD and TE replace the '00' with the thread length you require. (Limit for VD is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD und TE den gewünschten Maß an Stelle von '00' vermerken (für VD min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 800N in steps of 50N. / F1 Werte von 100 - 800N gestaffelt in 50N schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten



Extras	see page siehe Seite
Protection Tube Schutzrohr	63
Valve Ventil	64
Release Systems Auslösesysteme	48
Release way Auslöseweg	62
Special Extension Speed Ausfahrgeschwindigkeit	62
Special Length Maßvarianten	38

A : min.10mm - max.500mm
F1 : min.100N - max.1200N *

Blocking types / Blockierungstypen

BL6 : Locking in extension - free travel in compression
Blockierbar in Ausschubrichtung - frei Einfahrend
BL7 : Locking in compression - free travel in extension
Blockierbar in Einschubrichtung - frei Ausfahrend

ORDERING EXAMPLE / BESTELL BEISPIEL

BL6 - 10/28 - 30 - 215 - 200N - VP25 - TE20 - Extras

Tube end fitting / Druckrohr-Anschluß
Piston rod thread / Kolbenstangengewinde
F1
C - Extended Length / Gesamtlänge
A - Stroke / Hub
Group / Gruppe
Blocking type / Blockierungstypen

To specify a thread length for VD,VP and TE replace the '00' with the thread length you require. (Limit for VD and VP is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD,VP und TE den gewünschten Maß an Stelle von '00' vermerken (für VD und VP min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 1200N in steps of 50N. / F1 Werte von 100 - 1200N gestaffelt in 50N schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

BL8 GT-BLOCKLIFT – lockable traction gas springs

The working principle of the GT-Blocklift is the opposite of the Blocklift type gas spring. While the Blocklift type gas spring is always prepared to extend (i.e. to open lids and covers) the GT-Blocklift's function is to retract itself, in other words the gas pressure inside the tube pulls the piston rod inward. In its resting position, the spring is compressed; the piston rod must be pulled to extend it.

GT-Blocklift gas springs are great for use on doors, lids, hatches and hoods that needs to stay closed.

Basic

- GT-Blocklift gas springs have a release way of 1.5 mm.
- GT-Blocklift gas springs can be installed in any desired position.

Extras

GT-Blocklift type gas springs are custom designed to fit your individual application. Following optional extras are available for GT-Blocklift gas springs.

● GT-Blocklift gas springs with protection tube

Protection tubes are used to protect the piston rod against shocks, dirt and all kinds of scratches which are affecting the lifetime of the gas spring. For further information on protection tubes see **page 63**.

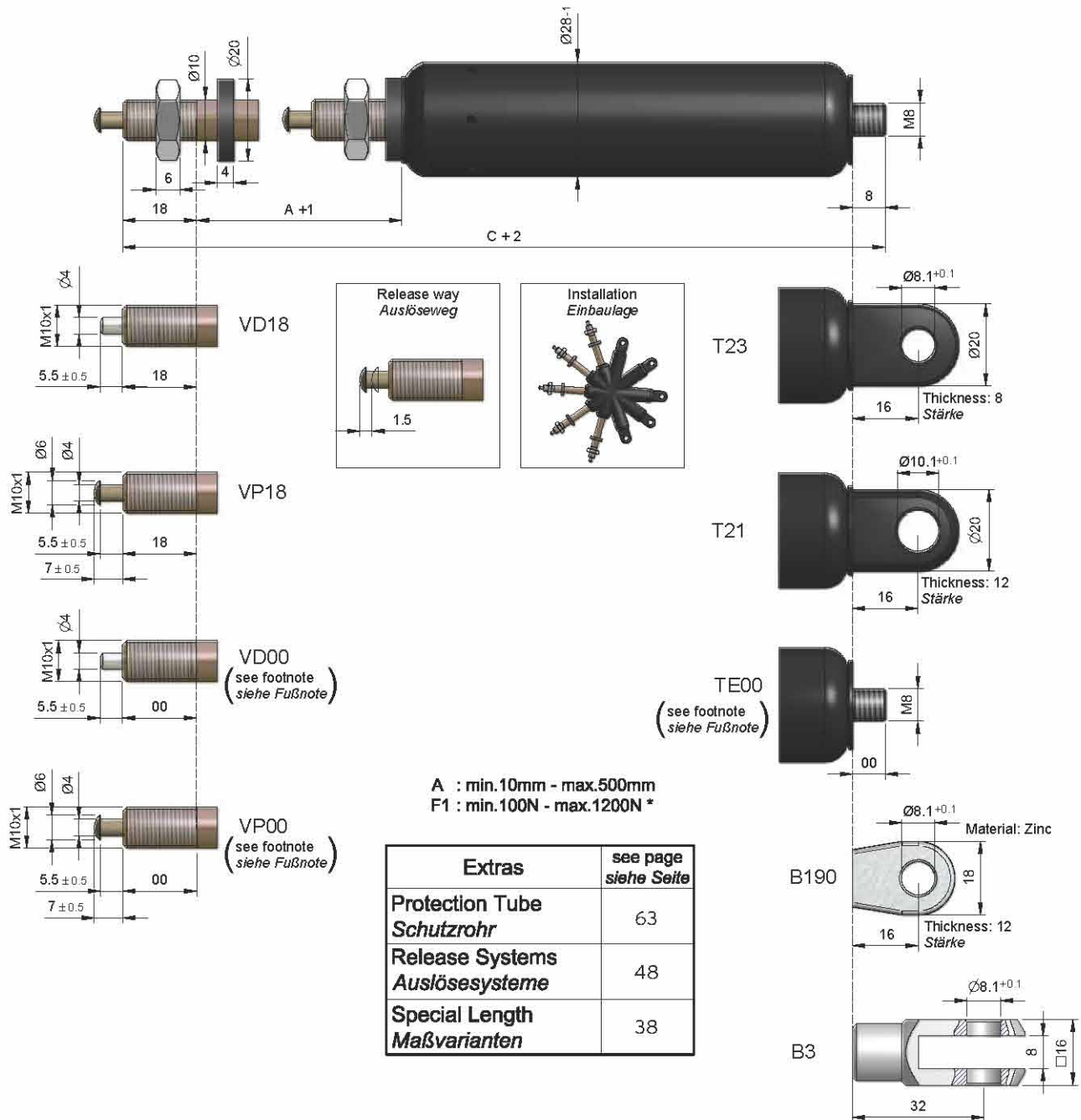
● Inox-GT-Blocklift (Stainless Steel GT-Blocklift)

GT-Blocklift type gas springs are also available in stainless steel for superior corrosion protection. Please refer to **page 44** for more benefits and details on stainless steel gas springs.

Please contact the Sales Desk for extras on GT-Blocklift gas springs.



Gas Traction Blocklift



ORDERING EXAMPLE / BESTELL BEISPIEL

BL8 - 10/28 - 30 - 215 - 200N - VD25 - TE20 - Extras

Blocking type / Blockierungstyp
 Group / Gruppe
 A - Stroke / Hub
 C - Extended Length / Gesamtlänge
 F1
 Tube end fitting / Druckrohr-Anschluß
 Piston rod thread / Kolbenstangengewinde

To specify a thread length for VD,VP and TE replace the '00' with the thread length you require. (Limit for VD and VP is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD,VP und TE den gewünschten Maß an Stelle von '00' vermerken (für VD und VP min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 1200N in steps of 50N. / F1 Werte von 100 - 1200N gestaffelt in 50N schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Blocklift gas springs with override function

- **BL9 – override in extension**
- **BL10 – override in compression**

BL9 – Blocklift with override in extension

The BL9 type is a rigid in compression Blocklift equipped with an 'override function' in the extension direction.

While the actuation mechanism is not operated the Blocklift will lock rigidly in compression and remain in it's locked position. Once a tensile force, definable for each individual application, is applied to the gas spring the locking valve system will open automatically and the gas spring will extend. As soon as the tensile force is taken off the valve system will lock immediately so that the Blocklift remains in that position.

The BL9 is preferred in applications where a single-handed operation of the gas spring is required or when protection of the application against tensile forces is desired.

BL10 – Blocklift with override in compression

BL10 type Blocklift features rigid locking in extension Blocklift with a 'override function' in the compression direction.

If compression force is applied onto the locked Blocklift the locking valve system will open automatically so that the gas spring can be compressed and protect the application from overload.

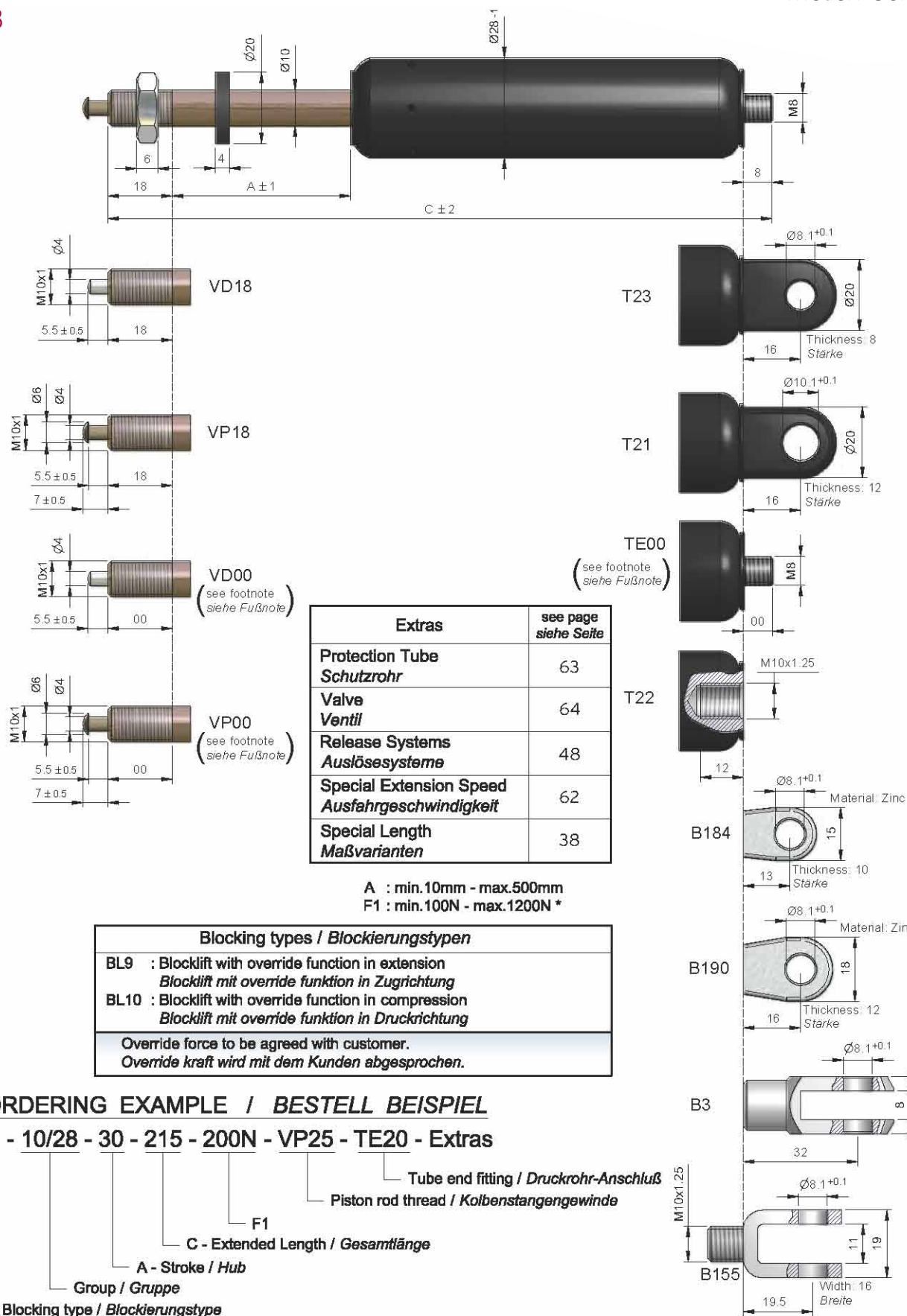
Main Features

- Allowing single-handed operation of application
- Protection of application against overload forces
- Override force can be defined to suit your application

Application Possibilities

- Monitor Height adjustments
- Height adjustable tables
- Passenger seats on buses
- Position adjustment of head and foot sections on hospital beds, treatment tables and massage tables





To specify a thread length for VD,VP and TE replace the '00' with the thread length you require. (Limit for VD and VP is min.12mm/max.30mm) e.g. VD21,TE55
Bei Angaben der Gewindelänge von VD,VP und TE den gewünschten Maß an Stelle von '00' vermerken (für VD und VP min.12mm/max.30mm) z.B. VD21,TE55

* F1 Values from 100 - 1200N in steps of 50N. / F1 Werte von 100 - 1200N gestaffelt in 50N schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Enquiry Sheet

COMPANY - FIRMA :
 FROM - VON :
 ADDRESS - ADRESSE :
 PHONE - TELEFON : TELEFAX :

Please quote delivery for springs as specified below / Wir bitten um ihr Angebot für:

QUANTITY - DELIVERY / LOSGRÖßE : QUANTITY - YEAR / JAHRESABNAHME :

REMARKS / SONSTIGES :

Technical drawing of a Blocklift assembly. The drawing shows a rod with a threaded end (M) and a tube with a flange end (Ø). Dimensions are indicated: ØM (8, 10, 14), ØB (22, 28, 40), L1, A ± 1, C ± 2, B1, L2, and Ø. Below the drawing is a table for specifying dimensions and materials.

ØM	ØB	A	C	F ₁ (N)	B1	L1	M	L2	Ø	Thickness Stärke
							M8x1			
							M10x1			
							M14x1.5			

Extras on Rod end / Extras am Kolbenende

Release Pin Auslösestift	Screw nut Mutter	Rubber bumper Gummipuffer
	M8x1 5	4
	M10x1 6	Ø8
	M14x1.5 8	Ø10
		Ø14

Extras on Tube end / Extras am Rohrende

Tube end drawing	Flange end drawing
	M

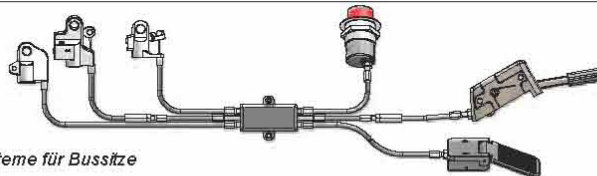
Please make a drawing, or contact us for alternative end fittings.
 Bitte Skizze zeichnen oder Anschlußalternative anfragen.

BLOCKLIFT TYPE

- ☐ BL1 : Rigid Blocking in extension / Starre Blockierung in Zugrichtung
- ☐ BL2 : Rigid Blocking in compression / Starre Blockierung in Druckrichtung
- ☐ BL3 : Spring Blocking / Federnde Blockierung
- ☐ BL4 : Rigid Blocking in compression - extension / Starre Blockierung in Druck-Zugrichtung
- ☐ BL5 : M-Blocklift
- ☐ BL6 : Locking in extension - free travel in compression / Blockierbar in Ausschubrichtung - frei Einfahrend
- ☐ BL7 : Locking in compression - free travel in extension / Blockierbar in Einschubrichtung - frei Ausfahrend
- ☐ BL8 : GT-Blocklift (Gas Traction Blocklift)
- ☐ BL9 : Blocklift with override function in extension / Blocklift mit override funktion in Zugrichtung
- ☐ BL10 : Blocklift with override function in compression / Blocklift mit override funktion in Druckrichtung

Do you want us to send information regarding our release systems?
 Wünschen Sie Zusatzinformationen zu unseren Auslösesystemen?

- ☐ Lever Release System / Hebelauslösung
- ☐ Hydraulic Release System / Hydraulische - Auslösesysteme
- ☐ Cable Release System / Bowdenzug - Auslösesystem
- ☐ Blocklift Release System for Passenger Seats on Busses / Auslösesysteme für Bussitze



Additional Information - Specifications / Zusatzinformationen - weitere Eigenschaften

Camloc Motion Control Ltd
 15 New Star Road,
 Leicester. LE4 9JD. UK

Tel: +44(0)116 274 3600
Fax: +44(0)116 274 3620

Email: info@camloc.com
Website: www.camloc.com

Data Sheet

TECHNICAL SPECIFICATION		EIGENSCHAFTEN	
<u>INSTALLATION</u> VERTICAL : PISTON ROD DOWNWARDS <input type="checkbox"/> PISTON ROD UPWARDS <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> APPLICATION		<u>INSTALLATION</u> VERTIKAL : KOLBENSTANGE NACH UNTEN <input type="checkbox"/> KOLBENSTANGE NACH OBEN <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANWENDUNG	
<u>RELEASE TYPE</u> RELEASE WAY : ○ STANDARD = 2,5 mm SHORT = <input type="checkbox"/> max.1 mm <input type="checkbox"/> 1,5 mm RELEASE FORCE : ○ STANDARD <input type="checkbox"/> SOFT		<u>AUSLÖSETYPE</u> AUSLÖSEWEG : ○ STANDART = 2,5 mm KURZAUSLÖSUNG = <input type="checkbox"/> max.1 mm <input type="checkbox"/> 1,5 mm AUSLÖSEKRAFT : ○ STANDART <input type="checkbox"/> SANFT	
<u>RELEASE SYSTEM</u> <input type="checkbox"/> LEVER RELEASE SYSTEM <input type="checkbox"/> CABLE RELEASE SYSTEM <input type="checkbox"/> HYDRAULIC RELEASE SYSTEM <input type="checkbox"/> OTHER		<u>AUSLÖSESYSTEM</u> <input type="checkbox"/> AUSLÖSEHEBEL <input type="checkbox"/> BOWDENZUGAUSLÖSUNG <input type="checkbox"/> HYDRAULISCHE AUSLÖSUNG <input type="checkbox"/> SONSTIGES	
<u>SPEED</u> EXTENSION SPEED : <input type="text"/>m/s NORMAL ○ SLOW <input type="checkbox"/> FAST <input type="checkbox"/> COMPRESSION SPEED : NORMAL ○ SLOW <input type="checkbox"/>		<u>GESCHWINDIGKEIT</u> BEIM AUSFAHREN : <input type="text"/>m/s NORMAL ○ LANGSAM <input type="checkbox"/> SCHNELL <input type="checkbox"/> BEIM EINFAHREN : NORMAL ○ LANGSAM <input type="checkbox"/>	
IF NOT STATED ABOVE : THE PRODUCTION WILL BE <u>INSTALLATION :</u> RIGID BLOCKING : POSITION ANY AS REQUIRED SPRING BLOCKING : PISTON ROD DOWNWARDS RELEASE FORCE : STANDARD RELEASE TYPE : STANDARD EXTENSION SPEED : NORMAL COMPRESSION SPEED : NORMAL		<u>FALLS NICHT ANGEGEBEN</u> <u>INSTALLATION :</u> STARRE BLOCKIERUNG : BELIEBIG FEDERnde BLOCKIERUNG : KOLBENSTANGE NACH UNTEN AUSLÖSEKRAFT : STANDART AUSLÖSETYPE : STANDART AUSFAHRGESCHWINDIGKEIT : NORMAL EINFHRGESCHWINDIGKEIT : NORMAL	
Camloc Motion Control Ltd 15 New Star Road, Leicester. LE4 9JD. UK		Tel: +44(0)116 274 3600 Fax: +44(0)116 274 3620 Email: info@camloc.com Website: www.camloc.com	

○ : RECOMMENDED / EMPFEHLUNG

T-BLOCKLIFT

'Blocklift' type gas springs are controlled by a release pin on the piston rod. The T-Blocklift line is characterised by the location of the release pin at the tube end.

Compared to regular Blocklift type gas springs the T-Blocklift allows you to have a longer stroke for the same extended lengths. Thanks to this they can be used in applications in which large adjustment ranges in a small installation space are to be realised.

Available Types

The T-Blocklift is available with 'Rigid in Compression' and 'Spring Blocking' features. Spring locking T-Blocklift gas springs (BLT3) are recommended if cushioning effect in the locked position is preferred.

The rigid locking T-Blocklift (BLT2) is used if no cushioning effect, but particularly small lengths are required.

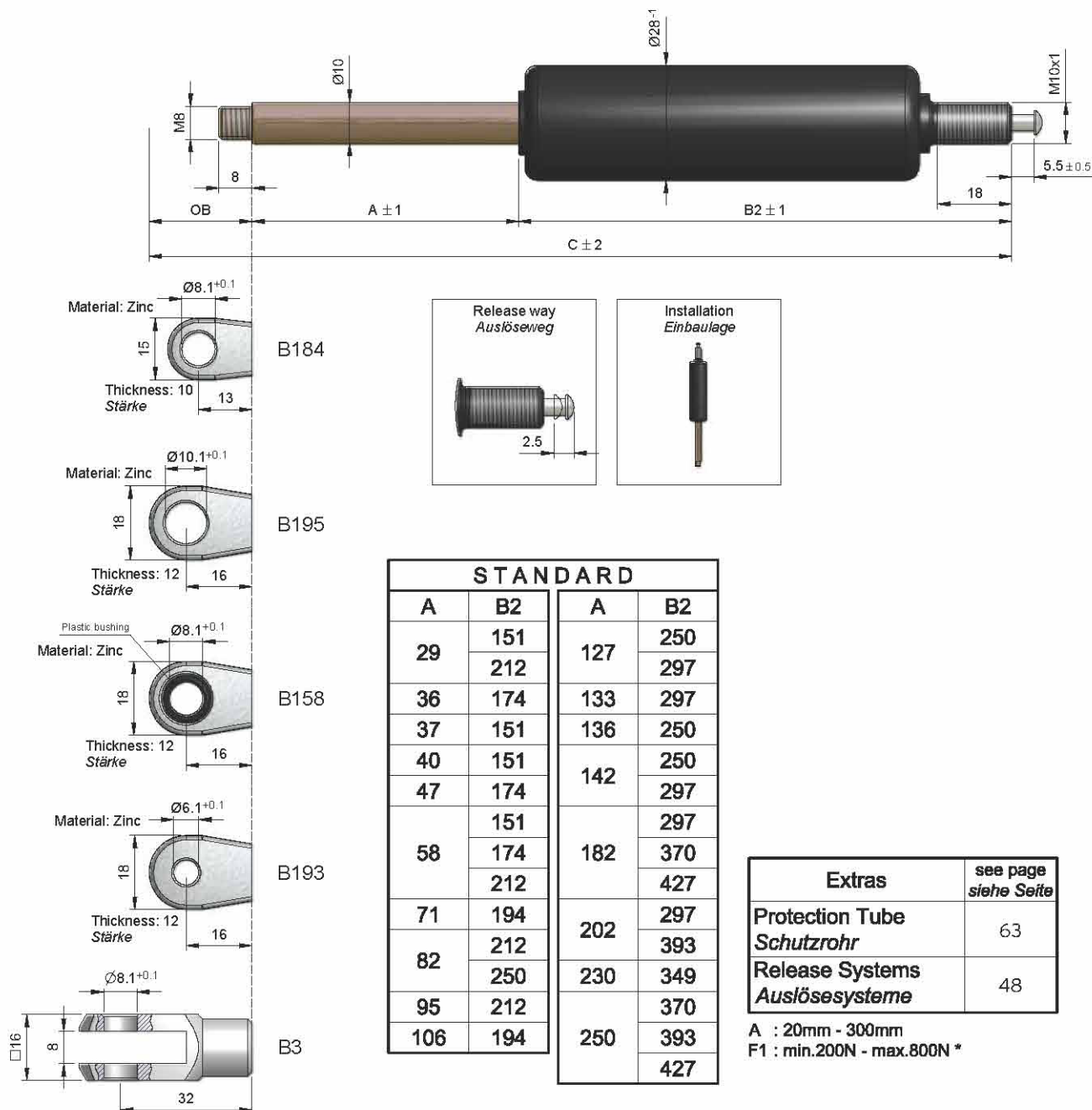
The following pages show standard measurements with dimensions, available end fittings and extras to ensure optimum function and lifetime of the gas spring.

Applications

Typical applications for the T-Blocklift line are hospital beds, massage couches, tables, passenger seats on buses etc.

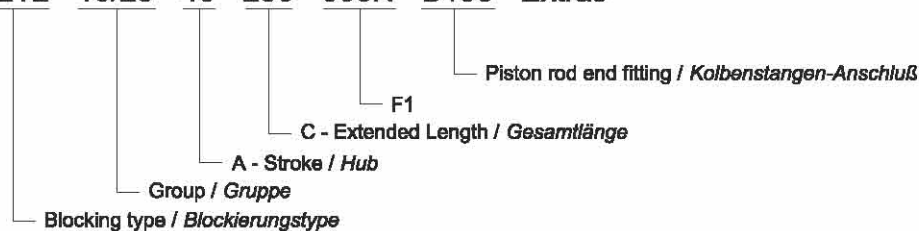


Rigid Blocking in compression / Starre Blockierung in Druckrichtung (BLT2)



ORDERING EXAMPLE / BESTELL BEISPIEL

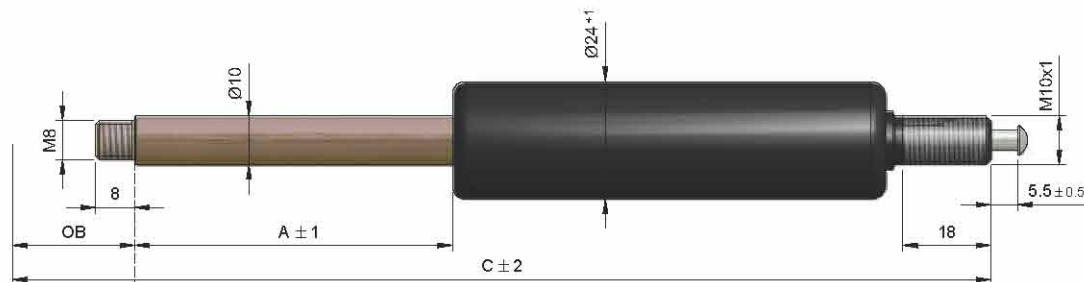
BLT2 - 10/28 - 40 - 250 - 600N - B195 - Extras



* F1 Values from 200 - 800N in steps of 50N. / F1 Werte von 200 - 800N gestaffelt in 50N schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Spring Blocking / Federnde Blockierung (BLT3)



B184



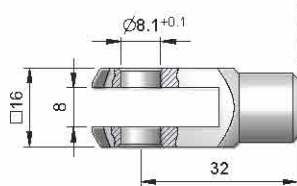
B195



B158



B193



B3

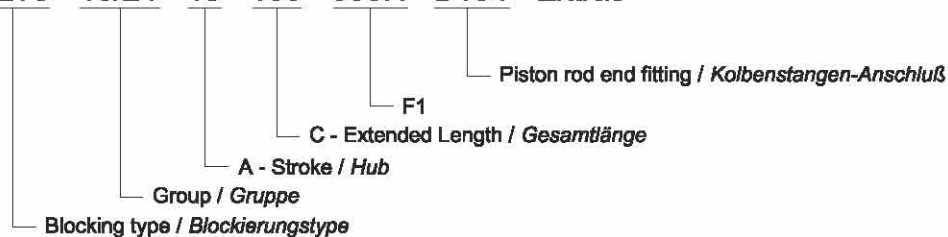


A : 20mm - 300mm
F1 : min.200N - max.800N *

Extras	see page siehe Seite
Protection Tube Schutzrohr	63
Release Systems Auslösesysteme	48

ORDERING EXAMPLE / BESTELL BEISPIEL

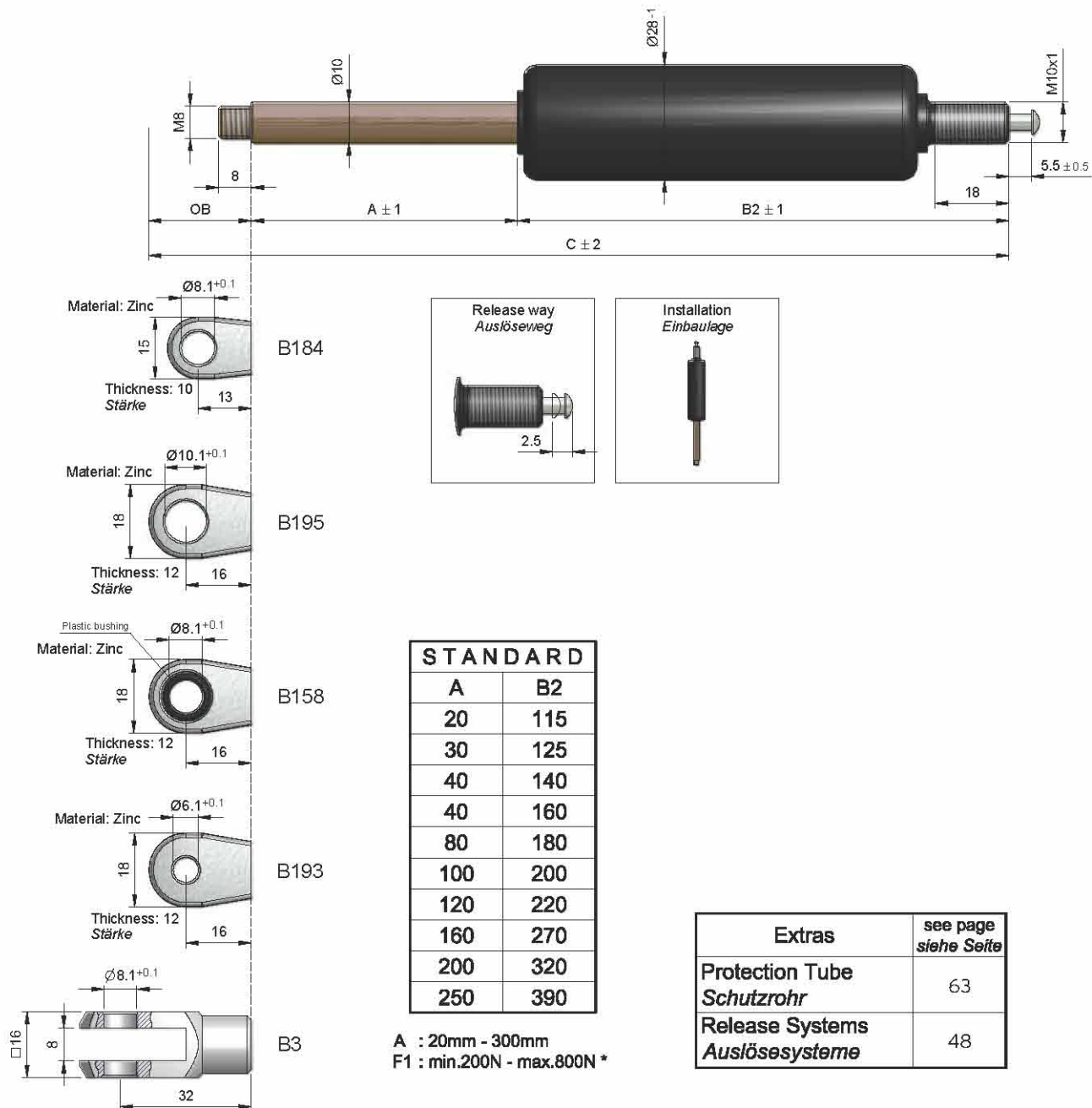
BLT3 - 10/24 - 15 - 100 - 600N - B184 - Extras



* F1 Values from 200 - 800N in steps of 50N. / F1 Werte von 200 - 800N gestaffelt in 50N schritten.

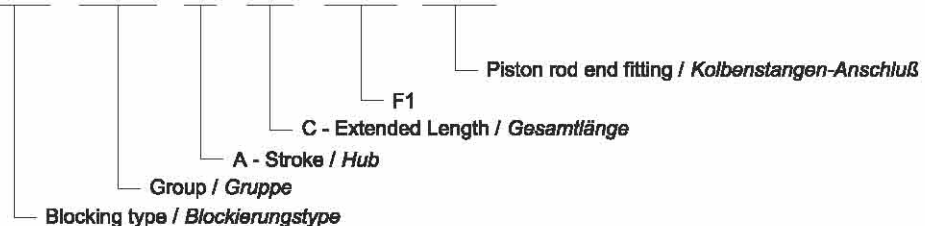
Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

Spring Blocking / Federnde Blockierung (BLT3)



ORDERING EXAMPLE / BESTELL BEISPIEL

BLT3 - 10/28 - 30 - 180 - 600N - B195 - Extras



* F1 Values from 200 - 800N in steps of 50N. / F1 Werte von 200 - 800N gestaffelt in 50N schritten.

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

What is stainless steel?

The many unique values provided by stainless steel make it a powerful candidate in the materials selection. Engineers, specifiers and designers often underestimate or overlook these values because of what is viewed as the higher initial cost of stainless steel. However, for specific applications such as in the marine, chemical and food industries, stainless is often the best value option.

INOX-BLOCKLIFT – Stainless steel gas springs

Need protection against corrosion, erosion and the ravages of time? Then gas springs made of SAE304 or SAE316L grade stainless steel for superior corrosion protection are for you. It is the ideal corrosion fighter in wash down areas for the food and packaging industries as well as outdoor environments.

The 'Inox-Blocklift' type is the stainless steel version of the 'standard Blocklift'. They are preferred if corrosion resistance is paramount and a high level of protection against corrosive environments is mandatory. There are thousands of applications where the Inox-Blocklift type can be used. Basic applications are wherever harsh conditions or environment are a concern, where a high level of cleanliness and hygiene is necessary and where an aesthetic appearance is preferred.

Most common applications are in the marine/ship building, medical equipment, chemical and food industries. Basic extras are various valve systems, protection tubes, special extension speed, special temperature range (up to -45°C or up to +200°C) and special damping choice are also available for Inox - Blocklift gas springs.



Standard Stainless Steel Swift & Sure Springs

Camloc stainless steel gas springs and end fittings are available in an extensive range of sizes. The range gives increased corrosion resistance in harsh and clean environments.

Manufactured using 316L stainless steel, this range of gas springs give increased corrosion resistance in industrial, marine and coastal environments, having been subject to over 1000 hours of salt spray testing.

Stainless steel Swift & Sure gas springs are available in an extensive range of sizes.

A specially prepared rod surface finish provides additional hardness and protection against high levels of corrosion. Stainless steel Swift & Sure gas springs are ideally suited for the use in harsh environment applications such as marine engine covers and application environments requiring high levels of cleanliness like the food industry.

Stainless Steel Swift & Sure

High corrosion resistant gas spring

Manufactured using 316L stainless steel, this range of gas springs give increased corrosion resistance in industrial, marine and coastal environments, having been subjected to over, 1000 hours of salt spray testing.

Stainless steel Swift & Sure gas springs are available in an extensive range of sizes.

With a specially prepared rod surface finish for additional hardness and protection against high levels of corrosion, Stainless steel Swift & Sure gas springs are ideally suited for use in harsh environment applications such as marine engine covers, doors and application environments requiring high levels of cleanliness like the food, pharmaceutical and medical industries.

Benefits

- High corrosion resistance for external applications
- 1000 hours salt spray tested
- 316L stainless steel tube & rod
- Additional hardness & corrosion resistance via special surface finish
- Custom design sized to your application
- BS EN ISO 9001 Registered Company

INOX Stainless Steel Blocklift Enquiry Sheet

COMPANY - FIRMA			
FROM - VON			
ADDRESS - ADRESSE			
PHONE - TELEFON	TELEFAX		

Please quote delivery for springs as specified below / *Wir bitten um ihr Angebot für:*

QUANTITY - DELIVERY / LOSGRÖÖE QUANTITY - YEAR / JAHRESABNAHME

REMARKS / SONSTIGES

ØM	ØB	A	C	F ₁ (N)	B1	L1	M	L2	Ø	Thickness Stärke
							M8x1 M10x1 M14x1.5			

Extras on Rod end / Extras am Kolbenende

Screw nut Mutter <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>M8x1</td> <td>5</td> </tr> <tr> <td>M10x1</td> <td>6</td> </tr> </table>	M8x1	5	M10x1	6	Rubber bumper Gummipuffer <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>4</td> <td>Ø8</td> </tr> <tr> <td></td> <td>Ø10</td> </tr> </table>	4	Ø8		Ø10
M8x1	5								
M10x1	6								
4	Ø8								
	Ø10								

Extras on Tube end / Extras am Rohrende

Please make a drawing or contact us for alternative end fittings.
Bitte Skizze zeichnen oder Anschlußalternativen anfragen.

BLOCKLIFT TYPE

☐ BL1 : Rigid Blocking in extension / *Starre Blockierung in Zugrichtung*

☐ BL2 : Rigid Blocking in compression / *Starre Blockierung in Druckrichtung*

☐ BL3 : Spring Blocking / *Federnde Blockierung*

☐ BL4 : Rigid Blocking in compression - extension / *Starre Blockierung in Druck-Zugrichtung*

☐ BL5 : M-Blocklift

☐ BL6 : Locking in extension - free travel in compression / *Blockierbar in Ausschubrichtung - frei Einfahrend*

☐ BL7 : Locking in compression - free travel in extension / *Blockierbar in Einschubrichtung - frei Ausfahrend*

☐ BL8 : GT-Blocklift (Gas Traction Blocklift)

☐ BL9 : Blocklift with override function in extension / *Blocklift mit override funktion in Zugrichtung*

☐ BL10 : Blocklift with override function in compression / *Blocklift mit override funktion in Druckrichtung*

<p>INSTALLATION</p> <p>VERTICAL : PISTON ROD DOWNWARDS <input type="radio"/> PISTON ROD UPWARDS <input type="checkbox"/></p> <p>HORIZONTAL : <input type="checkbox"/></p> <p>RELEASE TYPE</p> <p>RELEASE WAY : <input type="radio"/> 2,5 mm <input type="checkbox"/> 1,5 mm <input type="checkbox"/> max.1 mm</p> <p>RELEASE FORCE : <input type="radio"/> STANDARD <input type="checkbox"/> SOFT</p> <p>EXTENSION SPEED <input type="text" value="....."/> m/s</p> <p>NORMAL <input type="radio"/> SLOW <input type="checkbox"/> FAST <input type="checkbox"/></p> <p>COMPRESSION SPEED SLOW <input type="checkbox"/> FAST <input type="radio"/></p> <p><input type="radio"/> : STANDARD (If not stated, "standard" features will be considered as valid.)</p>	<p>EINBAU</p> <p>VERTIKAL : KOLBENSTANGE NACH UNTEN <input type="radio"/> KOLBENSTANGE NACH OBEN <input type="checkbox"/></p> <p>HORIZONTAL : <input type="checkbox"/></p> <p>AUSLÖSETYPE</p> <p>AUSLÖSEWEG : <input type="radio"/> 2,5 mm <input type="checkbox"/> 1,5 mm <input type="checkbox"/> max.1 mm</p> <p>AUSLÖSEKRAFT : <input type="radio"/> STANDART <input type="checkbox"/> SANFT</p> <p>AUSFAHRGESCHWINDIGKEIT <input type="text" value="....."/> m/s</p> <p>NORMAL <input type="radio"/> LANGSAM <input type="checkbox"/> SCHNELL <input type="checkbox"/></p> <p>EINFÄHRGESCHWINDIGKEIT LANGSAM <input type="checkbox"/> SCHNELL <input type="radio"/></p> <p><input type="radio"/> : STANDART (Falls nicht angegeben werden Standartwerte in acht genommen.)</p>
---	---

Camloc Motion Control Ltd
15 New Star Road,
Leicester. LE4 9JD. UK

Tel: +44(0)116 274 3600
Fax: +44(0)116 274 3620

Email: info@camloc.com
Website: www.camloc.com

BUROLIFT

Most manufacturers are supplying only a limited range of standard products for swivel chairs. Special gas spring solutions are often only available if the quantity is high. We offer, along with standard size Burolift gas springs, numerous solutions for your individual need even for low quantities. Some of these solutions are:

- 1 Burolift with nickel plated (bright chrome) standpipe for applications where a homogeneous impression has to be achieved (i.e. designer chairs).
- 2 Some applications, such as standing workstations and bar stools, require a high seating position. For this purpose the Burolift gas springs have been designed with an extra long open length.
- 3 Gas springs for swivel chairs are commonly released by a release tappet placed on the tube end of the gas spring, in other words on the upper position of the gas spring when it is installed. We also offer a gas spring which can be released from the piston rod at the bottom of the installed gas spring. This can be done by a cable release system with remote control.
- 4 Burolift gas springs for centre position adjustment are available. This type is not a height adjustment but a self-centering product. It allows 360° swivelling but upon removal of the load (when the person stands up) it turns automatically to its basic position. An application idea for this type of Burolift is chairs in conference rooms where a neat appearance, due to chairs facing the same position, is to be achieved. Visitors' chairs and meeting room chairs are common applications for this spring type.
- 5 Another non-height adjustable Burolift solution is a height fixed 360° swivelling column. It can be used anywhere where a height adjustment is not required. It can be used where a neat appearance, due to chairs with the same height, is to be achieved. Another application idea is for visitors' chairs where optical match to the executive chair is required.
- 6 On request the gas spring and the standpipe can be ordered separately.
- 7 For applications which require only a height adjustment column without swivelling, due to special workplace situations, we offer a non-rotating Burolift. Common applications are school chairs, special chairs for the disabled and table applications.



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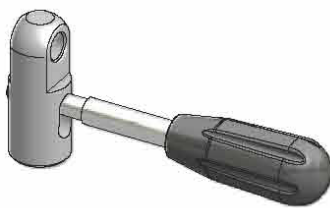
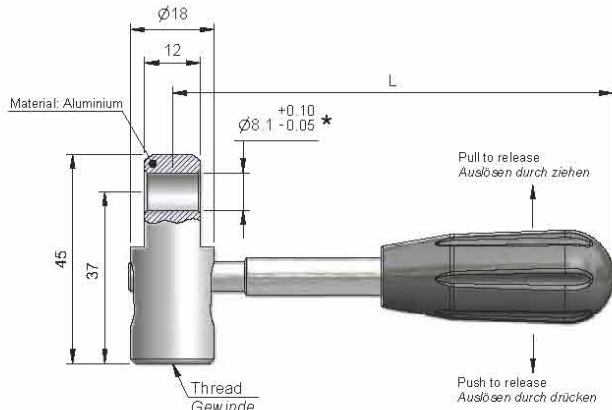
Release Systems

Camloc
Motion Control



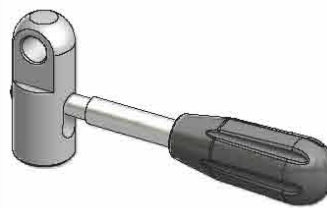
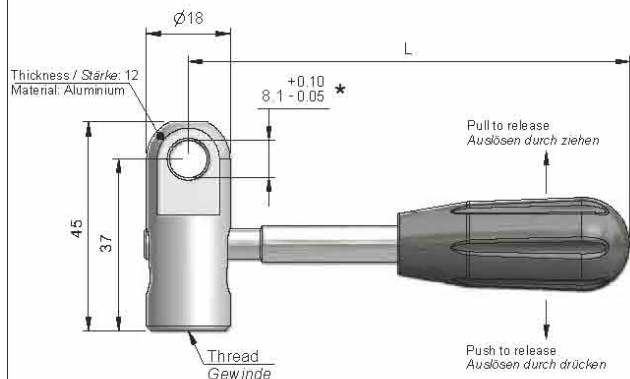
LEVER RELEASE SYSTEM / HEBELAUSLÖSUNG

* Please ask for hole diameter alternatives.
* Varianten zu Bohrungsdurchmesser auf Anfrage.



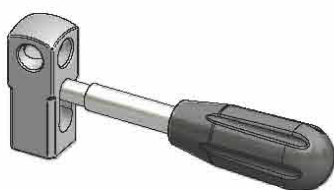
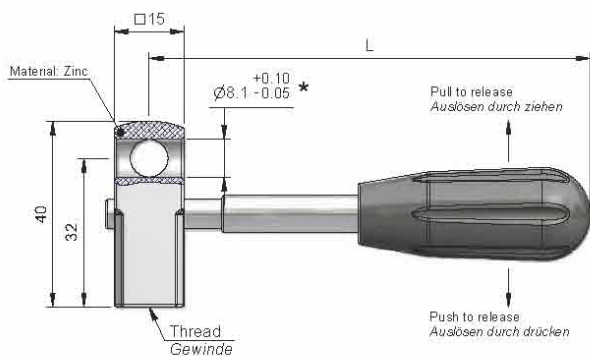
	M8x1	M10x1
L	Art. Nr.	
65	203 200 300	203 200 320
105	203 200 303	203 200 323
125	203 200 306	203 200 326
165	203 200 309	203 200 329
200	203 200 312	203 200 332
250	203 200 315	203 200 335

* Please ask for hole diameter alternatives.
* Varianten zu Bohrungsdurchmesser auf Anfrage.



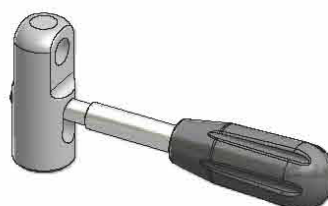
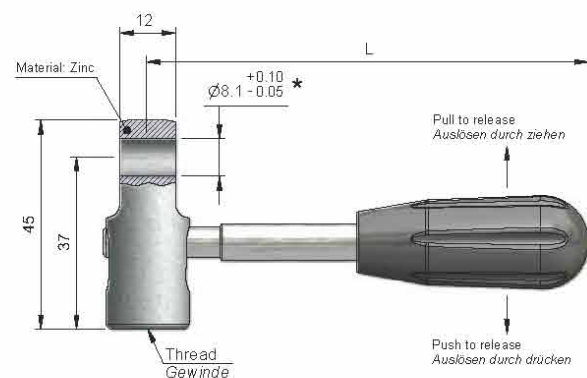
	M8x1	M10x1
L	Art. Nr.	
65	203 200 340	203 200 352
105	203 200 342	203 200 354
125	203 200 344	203 200 356
165	203 200 346	203 200 358
200	203 200 348	203 200 360
250	203 200 350	203 200 362

* Please ask for hole diameter alternatives.
* Varianten zu Bohrungsdurchmesser auf Anfrage.



	M8x1	M10x1
L	Art. Nr.	
65	203 200 550	203 200 551
105	203 200 555	203 200 556
125	203 200 560	203 200 561
165	203 200 565	203 200 566
200	203 200 570	203 200 571
250	203 200 575	203 200 576

* Please ask for hole diameter alternatives.
* Varianten zu Bohrungsdurchmesser auf Anfrage.



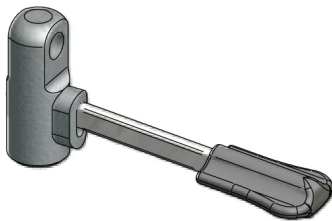
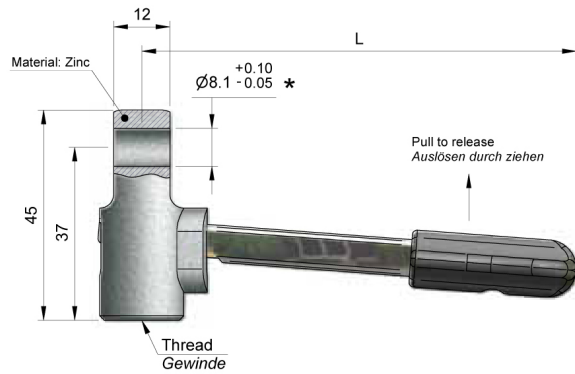
	M8x1	M10x1
L	Art. Nr.	
65	203 200 302	203 200 365
105	203 200 305	203 200 366
125	203 200 308	203 200 367
165	203 200 311	203 200 368
200	203 200 314	203 200 369
250	203 200 317	203 200 370

For proper functioning of release system the release way of the Blocklift must be 2.5 mm / Für eine einwandfreie Funktion des Auslössystems muß der Auslöseweg des Blocklifts 2.5 mm sein

Dimensions in mm - We reserve the right to make modifications / Maßangaben in mm - Änderungen vorbehalten

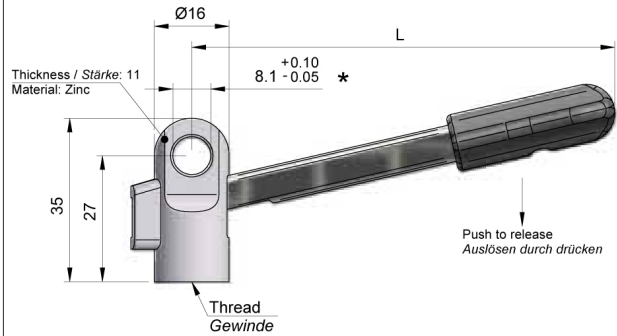
LEVER RELEASE SYSTEM / HEBELAUSLÖSUNG

* Please ask for hole diameter alternatives.
Varianten zu Bohrungsdurchmesser auf Anfrage.

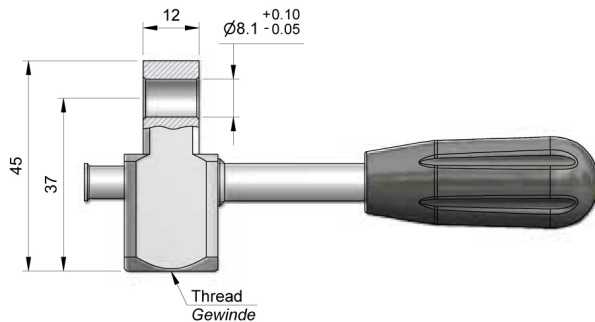


	M8x1	M10x1
L	Art. Nr.	
65	203 200 600	203 200 630
105	203 200 605	203 200 635
125	203 200 610	203 200 640
165	203 200 615	203 200 645
200	203 200 620	203 200 650
250	203 200 625	203 200 655

* Please ask for hole diameter alternatives.
Varianten zu Bohrungsdurchmesser auf Anfrage.



	M8x1	M10x1
L	Art. Nr.	
65	203 200 423	203 200 424
105	203 200 428	203 200 429
125	203 200 431	203 200 432
165	203 200 436	203 200 437
200	203 200 438	203 200 439
250	203 200 441	203 200 442

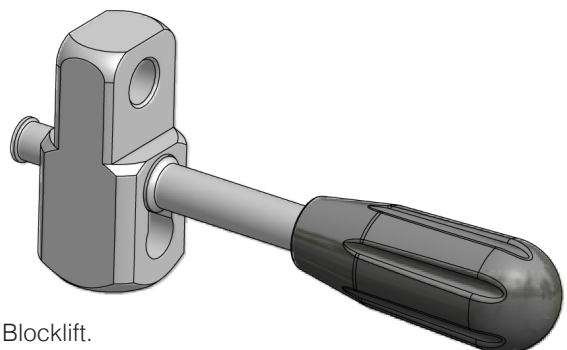


INNOVATION

Lever Release System where release function can be deactivated.

Simple to use

- Release Blocklift by using lever
- Deactivate release function to avoid undesired readjusting of Blocklift.

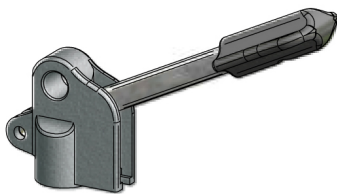
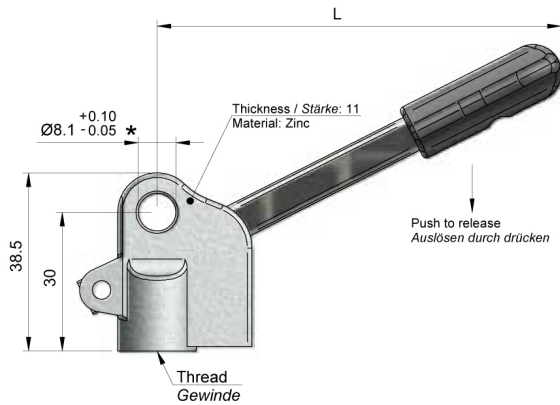


For proper functioning of release system the release way of the Blocklift must be 2.5 mm / Für eine einwandfreie Funktion des Auslössystems muß der Auslöseweg des Blocklifts 2.5 mm sein

Dimensions in mm-We reserve the right to make modifications / Maßangaben in mm-Änderungen vorbehalten

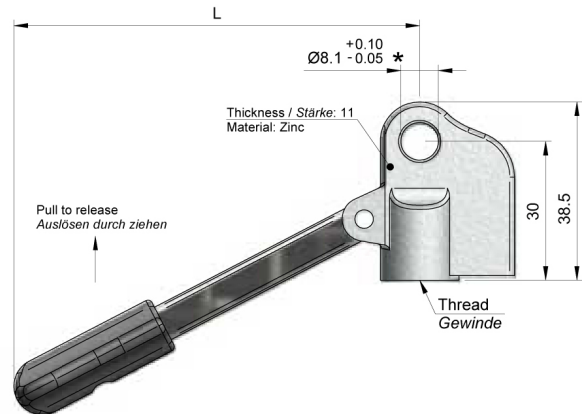
LEVER RELEASE SYSTEM / HEBELAUSLÖSUNG

* Please ask for hole diameter alternatives.
Varianten zu Bohrungsdurchmesser auf Anfrage.

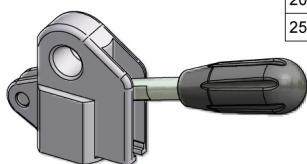
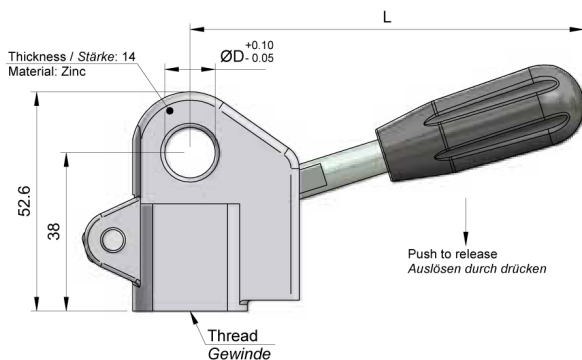
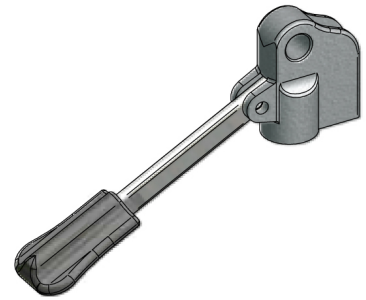


	M8x1	M10x1
L	Art. Nr.	
65	203 200 740	203 200 746
105	203 200 741	203 200 747
125	203 200 742	203 200 748
165	203 200 743	203 200 749
200	203 200 744	203 200 750
250	203 200 745	203 200 751

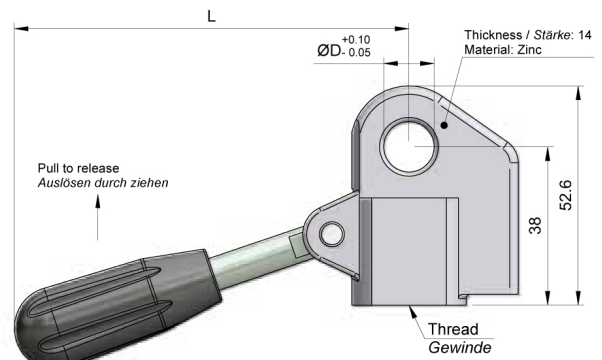
* Please ask for hole diameter alternatives.
Varianten zu Bohrungsdurchmesser auf Anfrage.



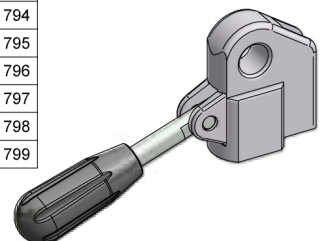
	M8x1	M10x1
L	Art. Nr.	
65	203 200 752	203 200 758
105	203 200 753	203 200 759
125	203 200 754	203 200 760
165	203 200 755	203 200 761
200	203 200 756	203 200 762
250	203 200 757	203 200 763



	M10x1 D=Ø12.1	M14x1.5 D=Ø12.1	M14x1.5 D=Ø14.1
L	Art. Nr.		
65	203 200 764	203 200 770	203 200 776
105	203 200 765	203 200 771	203 200 777
125	203 200 766	203 200 772	203 200 778
165	203 200 767	203 200 773	203 200 779
200	203 200 768	203 200 774	203 200 780
250	203 200 769	203 200 775	203 200 781



	M10x1 D=Ø12.1	M14x1.5 D=Ø12.1	M14x1.5 D=Ø14.1
L	Art. Nr.		
65	203 200 782	203 200 788	203 200 794
105	203 200 783	203 200 789	203 200 795
125	203 200 784	203 200 790	203 200 796
165	203 200 785	203 200 791	203 200 797
200	203 200 786	203 200 792	203 200 798
250	203 200 787	203 200 793	203 200 799



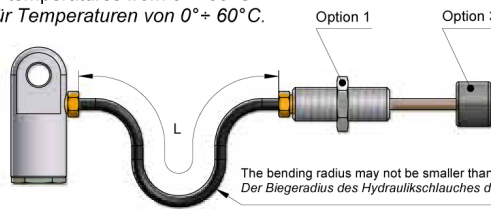
For proper functioning of release system the release way of the Blocklift must be 2.5 mm / Für eine einwandfreie Funktion des Auslössystems muß der Auslöseweg des Blocklifts 2.5 mm sein

Dimensions in mm-We reserve the right to make modifications / Maßangaben in mm-Änderungen vorbehalten

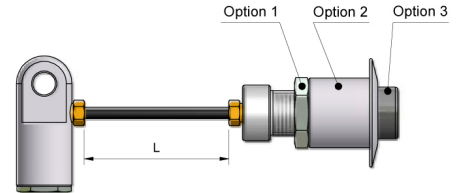
HYDRAULIC RELEASE SYSTEM / HYDRAULISCHE - AUSLÖSESYSTEME

Note on ordering/Inquiring : Simply tick the units you are interested in and fax this page to us.
Anfrage/Bestellhinweis : Einfach ihre Wunscheinheit ankreuzen und uns diese Seite zufaxen.

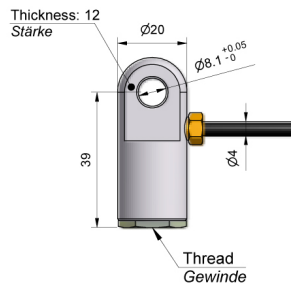
Suitable for temperatures from 0° + 60° C
Geeignet für Temperaturen von 0° + 60° C.



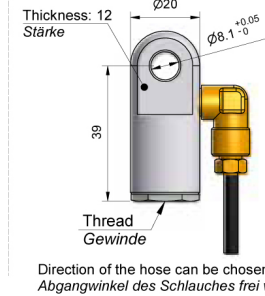
The bending radius may not be smaller than R50mm.
Der Biegeradius des Hydraulikschlauches darf R50mm nicht unterschreiten.



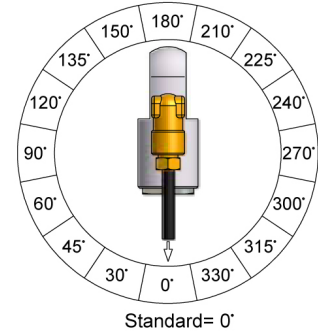
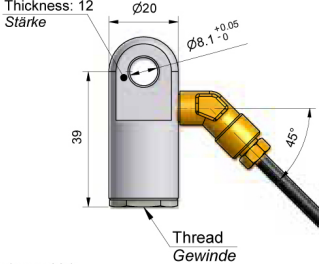
☐ M8x1
☐ M10x1



☐ M8x1
☐ M10x1



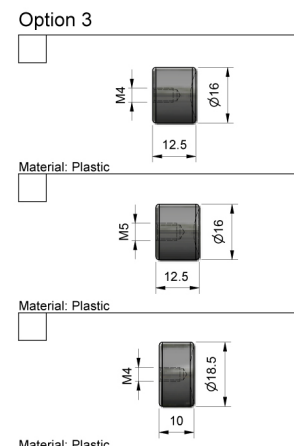
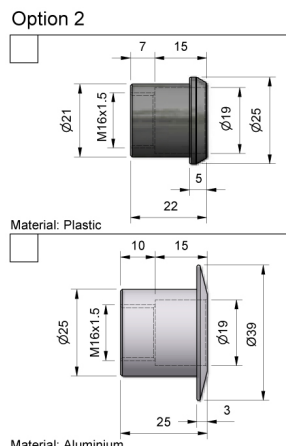
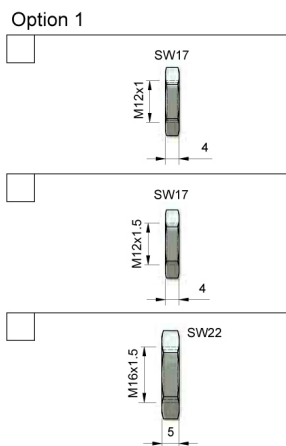
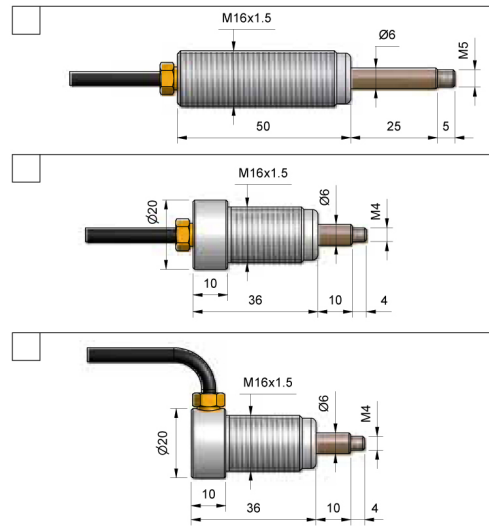
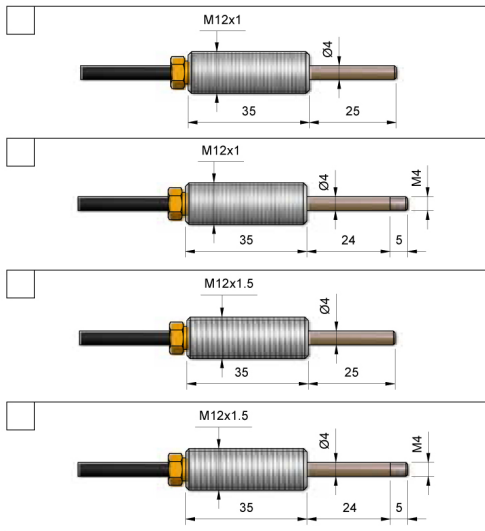
☐ M8x1
☐ M10x1



Standard= 0°

Hoselength (L) = ☐ 200 ☐ 300 ☐ 400 ☐ 500 ☐ 600
Schlauchlänge ☐ 700 ☐ 800 ☐ 900 ☐ 1000 ☐ 1500 ☐

Recommended max. hoselength 1500mm
Max. empfohlene Schlauchlänge 1500mm

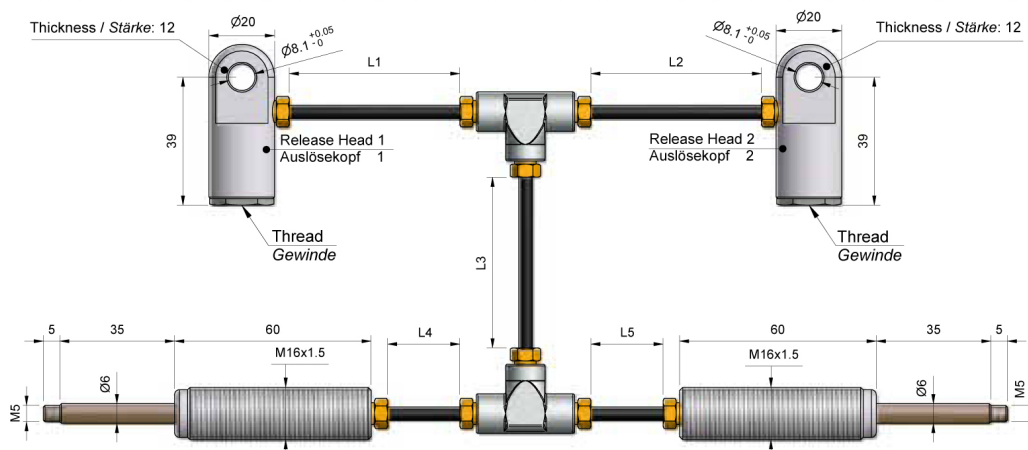
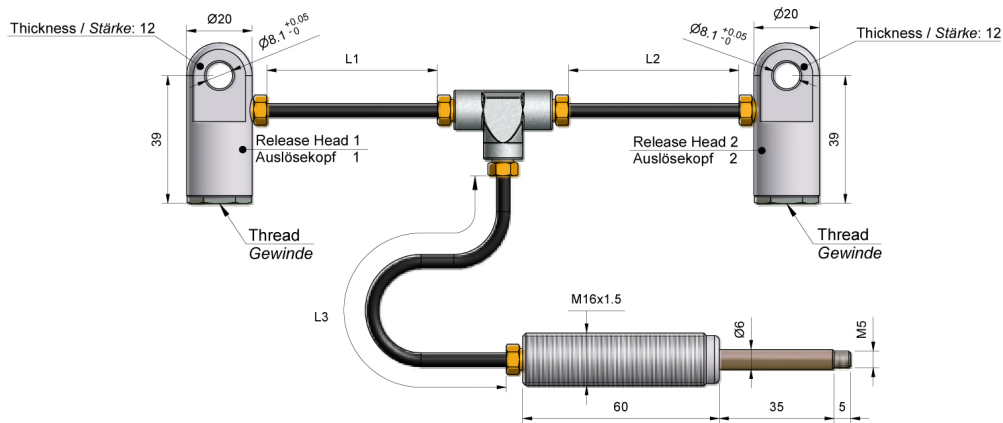
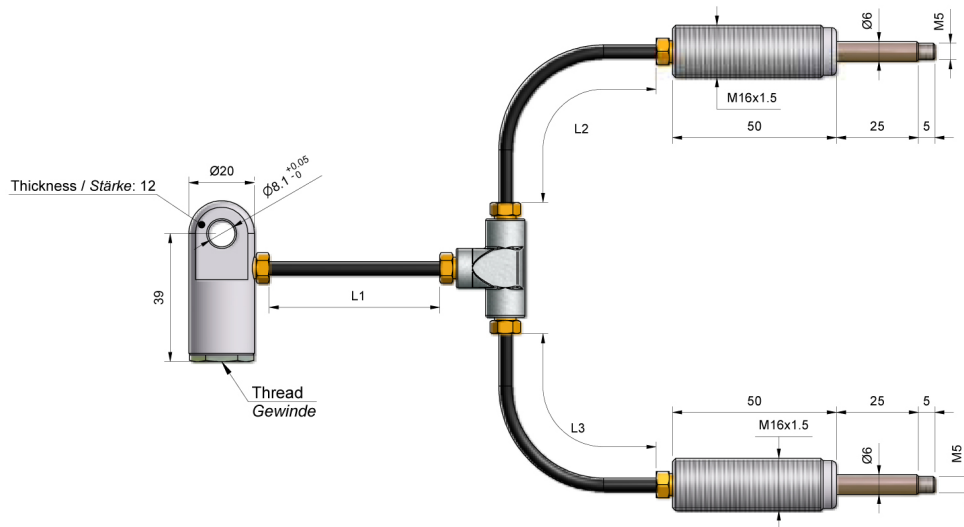


For proper functioning of release system the release way of the Blocklift must be 1 mm
Für eine einwandfreie Funktion des Auslösesystems muß der Auslöseweg des Blocklifts 1 mm sein

Dimensions in mm-We reserve the right to make modifications / Maßangaben in mm-Änderungen vorbehalten

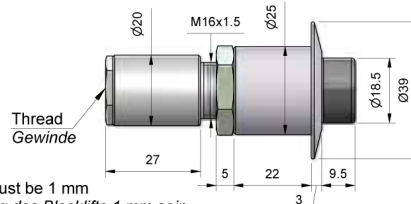
MULTI HYDRAULIC RELEASE SYSTEM / MULTI HYDRAULISCHE - AUSLÖSESYSYEME

- The release heads can be chosen differently as shown above. - Recommended max. hose length per hose 1500mm
- Die Auslöseköpfe können anders als abgebildet ausgewählt werden - Max. empfohlene Schlauchlänge pro Schlauch 1500mm



DIRECT HYDRAULIC RELEASE SYSTEM / DIREKT HYDRAULIKAUSLÖSUNG

Thread Gewinde	Art. Nr.
M8x1	203 201 191
M10x1	203 201 192



For proper functioning of release system the release way of the Blocklift must be 1 mm
Für eine einwandfreie Funktion des Auslösessystems muß der Auslöseweg des Blocklifts 1 mm sein

Dimensions in mm-Vve reserve the right to make modifications / Maßangaben in mm-Änderungen vorbehalten

ADVICE AND WARNINGS ON CABLE RELEASE SYSTEM APPLICATIONS

1 Release cables should not be bent more than twice; 'S' shape bends must be avoided. We recommend max. 2 bends and a bending radius exceeding 180 degrees. The number of bends and the bending radius will affect the application's performance.

2 For a Blocklift with low F1 force, the use of the 'Light Release Head' is not recommended.

3 RELEASE WAY: (see key: a)

The release way of a Blocklift must be chosen according to the release way requirements of the release head and/or release unit (see **page 62** for more information on release way feature).

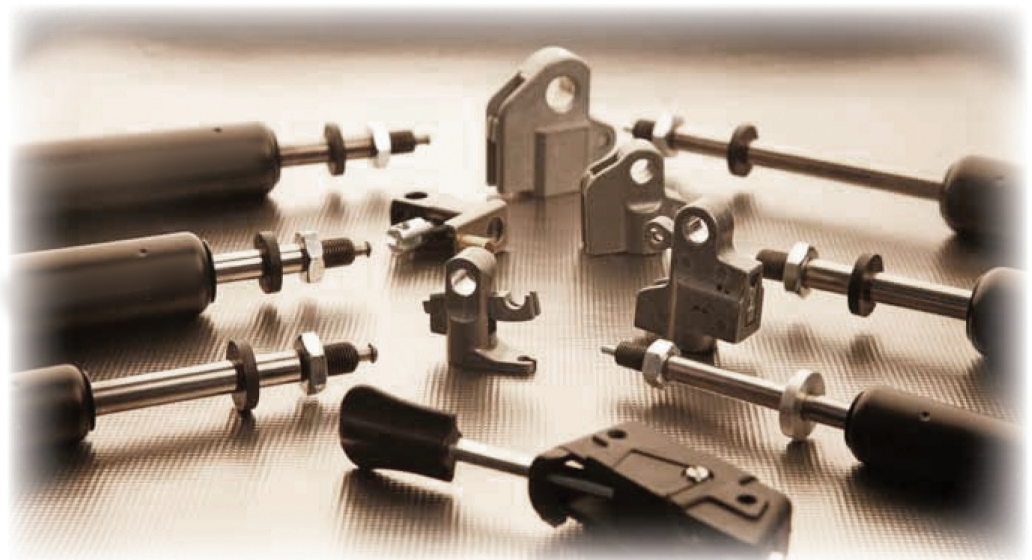
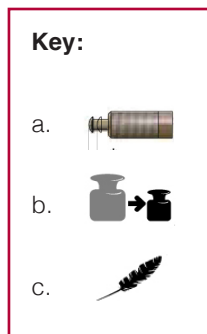
4 MECHANICAL ADVANTAGES: (see key: b)

- Release force of the Blocklift is related directly to the F1 (extension force); ie. Blocklift with high F1 has a high release force.
- For comfortable use of our release heads recommended Blocklift F-N values (see key: c) are given for each release head.
- For each release head and release unit it's respective mechanical advantage value is given. Thanks to the mechanical advantage, the Blocklift release force effect can be reduced to a comfortable level.
- The given mechanical advantages values for release head and release unit are approximate.

5 ADVICE ON MAKING A PROPER RELEASE SYSTEM COMBINATION

Release systems can be used as a single system or as a combination of multiple Blocklifts and/or release units. The combination of release head and release units will effect the comfort level of the application. For a suitable combination please note the issues stated below.

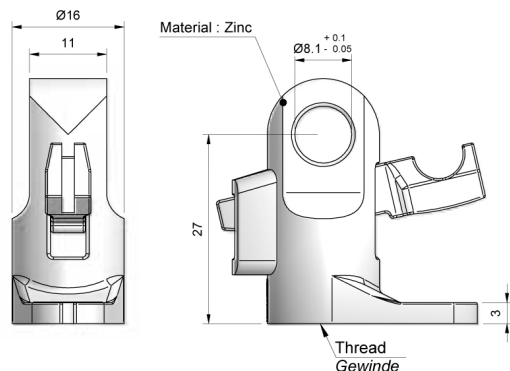
- Select the release head according to recommended Blocklift F1 values. In case of Multi-Blocklift applications (via Splitter), for comfortable use, the selection of the release head must be in accordance with the TOTAL F1-N of all Blocklifts.
- Ensure the release unit selected is suitable for your application.
- In case of Multi-Blocklift applications; the release heads must be of the same type, different types cannot be used together.
- In case of Multi-Release Unit applications; the release units must be of the same type, different types cannot be used together.
- If the Blocklift F1-N is exceeding the recommended comfortable force level (see key: c) of the preferred release head, selecting a release unit with high mechanical advantage (see key: b) may be considered for usage of the preferred release head.



CABLE RELEASE SYSTEM / BOWDENZUG - AUSLÖSESYSYSTEM

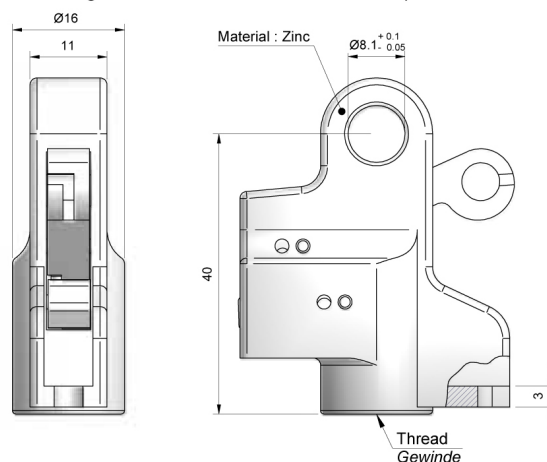
RELEASE HEADS / AUSLÖSEKOPF

Standard Model Release Head / Standard Model Auslösekopf



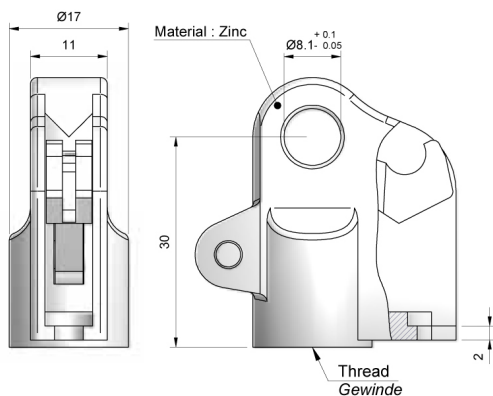
Thread Gewinde			Art. Nr. Type A	Art. Nr. Type B
M8x1	1:2	≤ 600N	203 200 454	203 200 447
M10x1	1:2	≤ 600N	203 200 455	203 200 448
Cable retainer housing Bowdenhalter				
Release way Auslöseweg				

Light Release Head / Leicht Auslösekopf



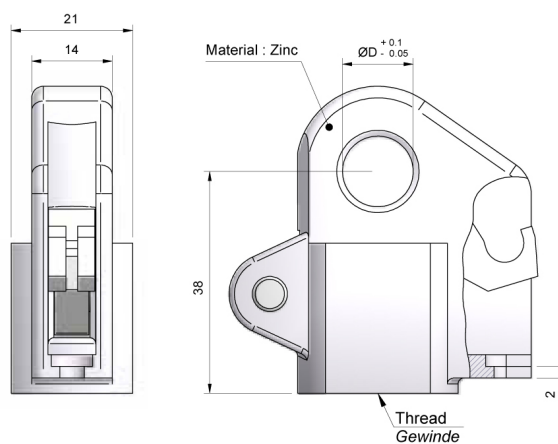
Thread Gewinde			Art. Nr. Type A	Art. Nr. Type B
M8x1	1:5	≤ 800N	203 200 717	203 200 723
M8x1	1:10	≤ 1000N	203 200 718	203 200 724
M8x1	1:20	≤ 1200N	203 200 719	203 200 725
M10x1	1:5	≤ 800N	203 200 720	203 200 726
M10x1	1:10	≤ 1000N	203 200 721	203 200 727
M10x1	1:20	≤ 1200N	203 200 722	203 200 728
Cable retainer housing Bowdenhalter				
Release way Auslöseweg				

Monoblock Release Head / Monoblok Auslösekopf



Thread Gewinde			Art. Nr. Type A
M8x1	1:2	≤ 600N	203 200 497
M10x1	1:2	≤ 600N	203 200 498
Cable retainer housing Bowdenhalter			
Release way Auslöseweg			

XL - Monoblock Release Head / XL - Monoblok Auslösekopf



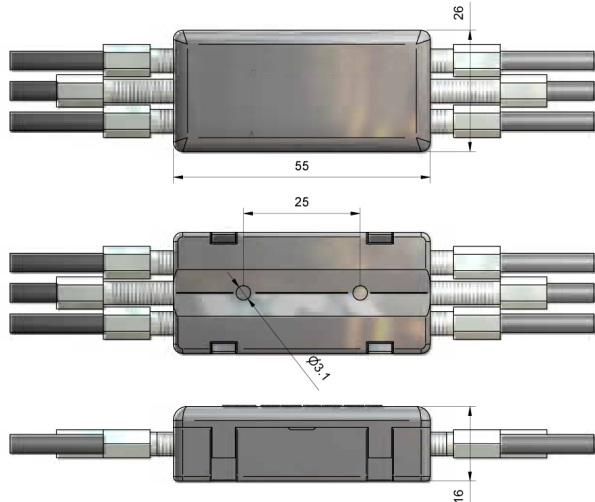
Thread Gewinde	Hole ØD			Art. Nr. Type A
M10x1	Ø12.1	1:2	≤ 1200N	203 200 729
M14x1.5	Ø12.1	1:2	≤ 1200N	203 200 730
M14x1.5	Ø14.1	1:2	≤ 1200N	203 200 731
Cable retainer housing Bowdenhalter				
Release way Auslöseweg				

Dimensions in mm-We reserve the right to make modifications / Maßangaben in mm-Änderungen vorbehalten

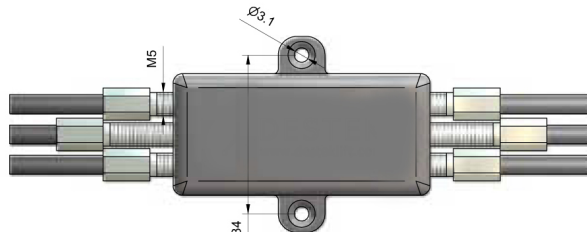
CABLE RELEASE SYSTEM / BOWDENZUG - AUSLÖSESYSYSTEM

SPLITTER / SPLITTER

- Standard Splitter with two mounting holes on bottom
- Standard Splitter mit Bodenanschlußbohrungen



- Splitter with two molded slots for easy mounting
- Splitter mit seitlichen Anschlußflächen



Combination possibilities / Kombinationsmöglichkeiten

1 GAS SPRING
2 RELEASE UNITS
1 GASFEDER
2 AUSLÖSE-EINHEITEN

1 GAS SPRING
3 RELEASE UNITS
1 GASFEDER
3 AUSLÖSE-EINHEITEN

2 GAS SPRINGS
1 RELEASE UNIT
2 GASFEDERN
1 AUSLÖSE-EINHEIT

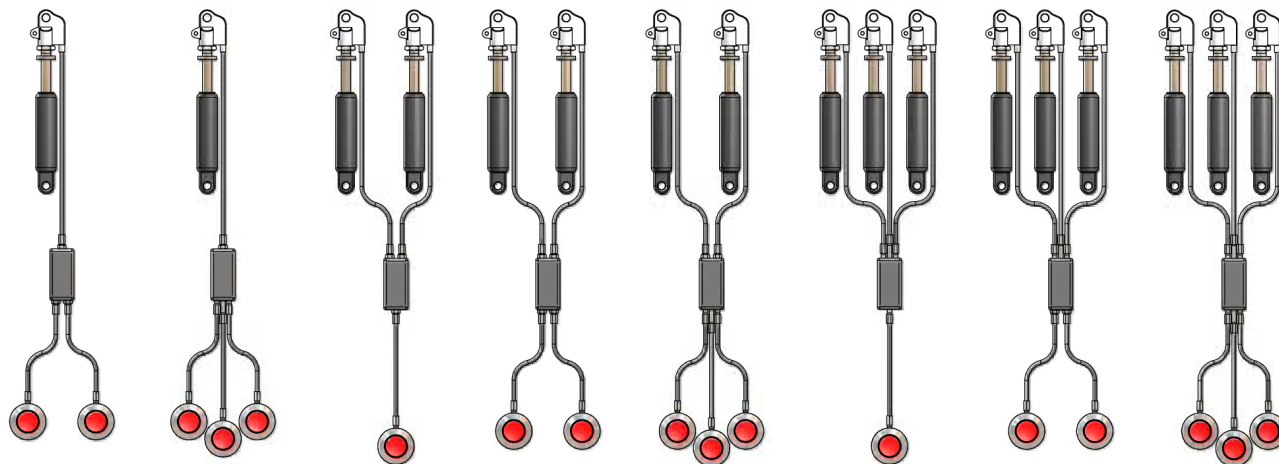
2 GAS SPRINGS
2 RELEASE UNITS
2 GASFEDERN
2 AUSLÖSE-EINHEITEN

2 GAS SPRINGS
3 RELEASE UNITS
2 GASFEDERN
3 AUSLÖSE-EINHEITEN

3 GAS SPRINGS
1 RELEASE UNIT
3 GASFEDERN
1 AUSLÖSE-EINHEIT

3 GAS SPRINGS
2 RELEASE UNITS
3 GASFEDERN
2 AUSLÖSE-EINHEITEN

3 GAS SPRINGS
3 RELEASE UNITS
3 GASFEDERN
3 AUSLÖSE-EINHEITEN



Dimensions in mm-We reserve the right to make modifications / Maßangaben in mm-Änderungen vorbehalten

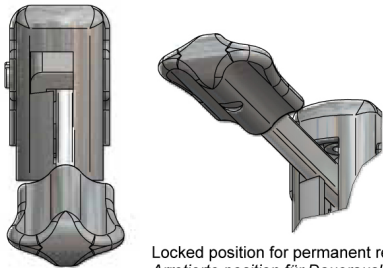
CABLE RELEASE SYSTEM / BOWDENZUG - AUSLÖSESYSYSTEM

RELEASE UNITS / AUSLÖSEEINHEIT

STANDARD MODEL RELEASE UNIT STANDARD MODEL AUSLÖSEEINHEIT

- LOCKABLE MODEL: Suitable for short-term and permanent release
- ARRETIERBARES MODEL: Geeignet für Kurzauslösung und für Dauerauslösung

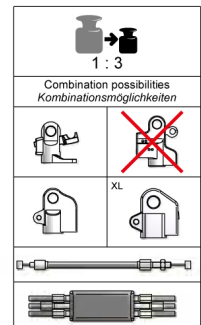
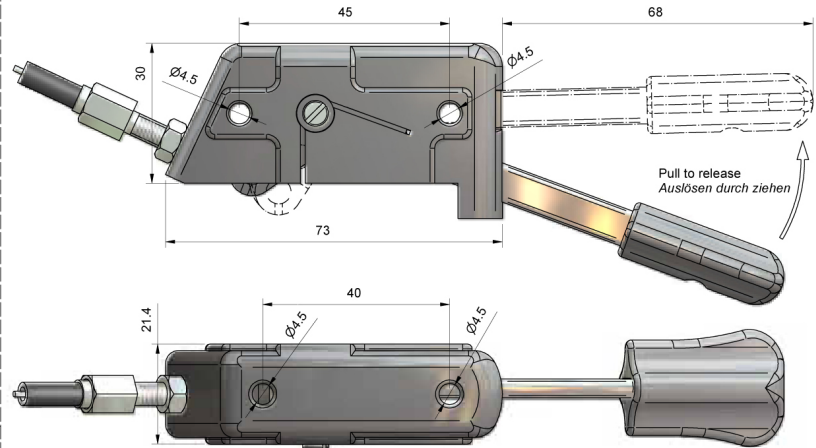
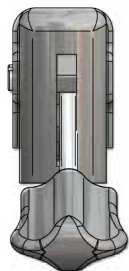
Art. Nr.: 203 200 450



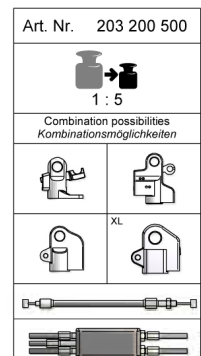
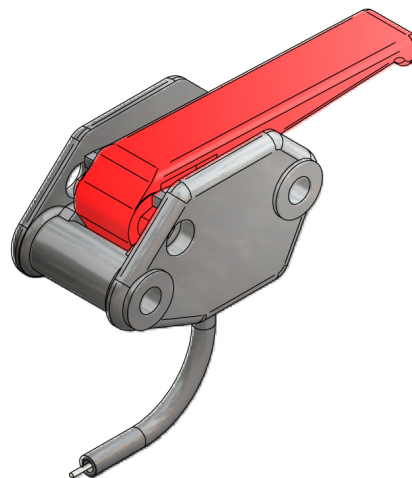
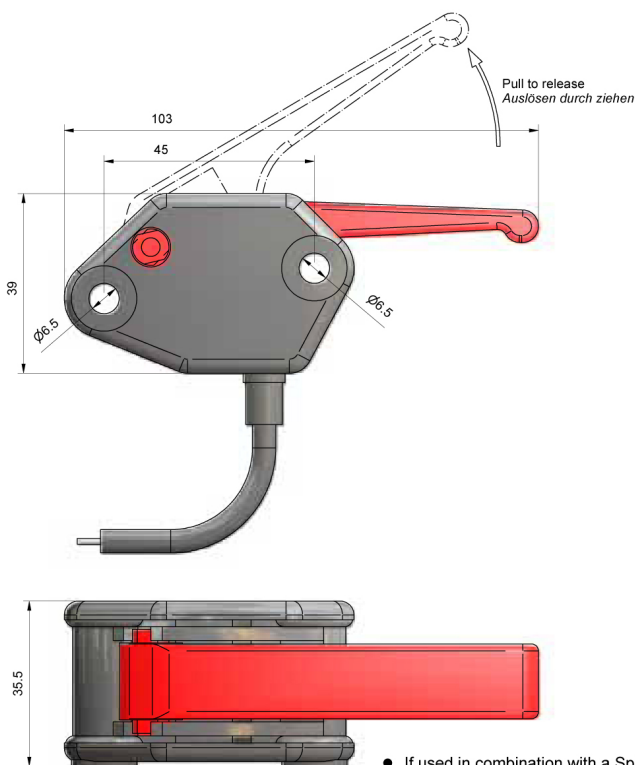
Locked position for permanent release
Arretierte position für Dauerauslösung

- NON LOCKABLE MODEL: Suitable for short-term release
- NICHT ARRETIERBARES MODEL: Geeignet für Kurzauslösung

Art. Nr.: 203 200 459



C - TYPE RELEASE UNIT C - MODEL AUSLÖSEEINHEIT



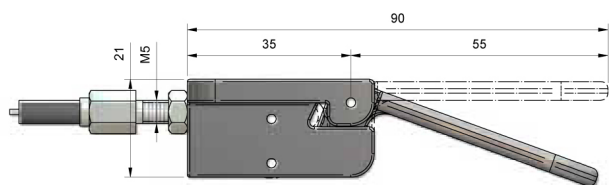
- If used in combination with a Splitter up to two release units can be used.
- Bei Gebrauch mit Splitter nur Kombination mit ein bis zu zwei Auslöseeinheiten verwendbar.

Dimensions in mm-We reserve the right to make modifications / Maßangaben in mm-Änderungen vorbehalten

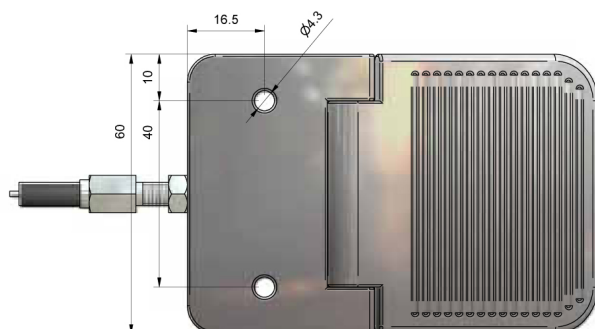
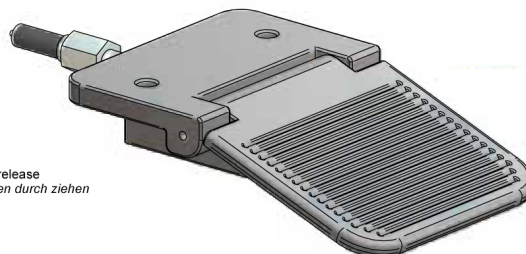
CABLE RELEASE SYSTEM / BOWDENZUG - AUSLÖSESYSTEM

RELEASE UNITS / AUSLÖSEEINHEIT

PULL TYPE FLAT GRIP RELEASE UNIT ZUG - FLACHTASTER AUSLÖSEEINHEIT



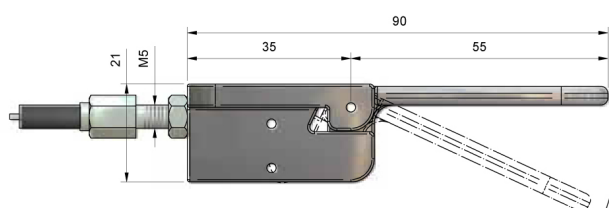
Pull to release
Auslösen durch ziehen



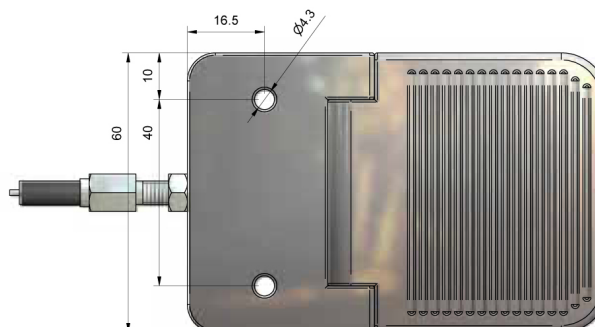
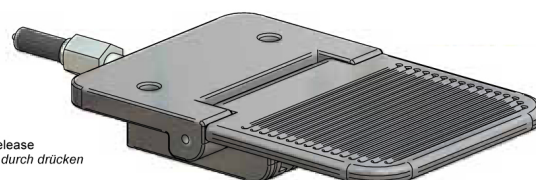
Art. Nr.	203 200 778
 1 : 1	
Combination possibilities Kombinationsmöglichkeiten	
	
	
	
	
Release way / Auslöseweg	
 Max. 1.5mm	

Art. Nr.	203 200 779
 1 : 5	
Combination possibilities Kombinationsmöglichkeiten	
	
	
	
	
Release way / Auslöseweg	
 Max. 1mm	

PUSH TYPE FLAT GRIP RELEASE UNIT DRUCK - FLACHTASTER AUSLÖSEEINHEIT



Push to release
Auslösen durch drücken



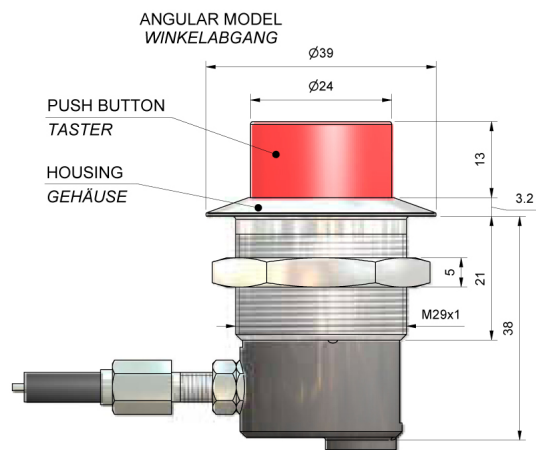
Art. Nr.	203 200 780
 1 : 1	
Combination possibilities Kombinationsmöglichkeiten	
	
	
	
	
Release way / Auslöseweg	
 Max. 1.5mm	

Dimensions in mm-We reserve the right to make modifications / Maßangaben in mm-Änderungen vorbehalten

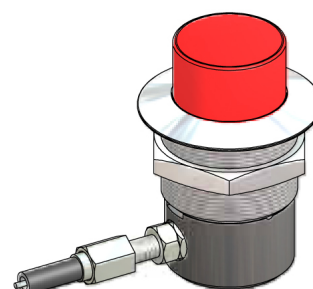
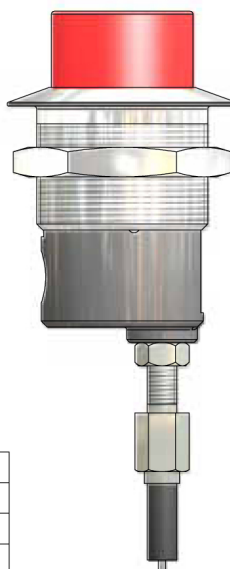
CABLE RELEASE SYSTEM / BOWDENZUG - AUSLÖSESYSYSTEM

RELEASE UNITS / AUSLÖSEEINHEIT

PUSH BUTTON RELEASE UNIT AUSLÖSEKNOPF AUSLÖSEEINHEIT

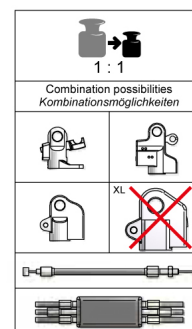


STRAIGHT MODEL GERADLINIGER ABGANG



Housing Gehäuse	Push Button Taster	Straight Model Geradliniger abgang	Angular Model Winkelabgang
* Matt Chrome	Red	203 200 752	203 200 759
Matt Chrome	Matt Chrome	203 200 753	203 200 760
Matt Chrome	Black	203 200 754	203 200 761
Chrome	Chrome	203 200 755	203 200 762
Chrome	Red	203 200 756	203 200 763
Chrome	Black	203 200 757	203 200 764
Titanium	Titanium	203 200 758	203 200 765

* Standard



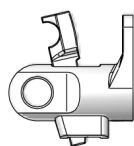
Dimensions in mm-We reserve the right to make modifications / Maßangaben in mm-Änderungen vorbehalten



CABLE RELEASE SYSTEM / BOWDENZUG - AUSLÖSESYSYSTEM

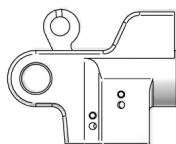
Note on ordering / inquiring : Simply tick the units you are interested in and fax this page to us. Please consider for each unit our notes and tips of usage given on its catalog page.
Anfrage / Bestellhinweis : Einfach Ihre Wunschseinheit ankreuzen und diese Seite zurfaxen. Bitte beachten Sie für jede Einheit unsere Gebrauchshinweise auf der jeweiligen Katalogseite.

Standard Model Release Head
Standard Model Auslösekopf



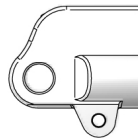
Art. Nr.

Light Release Head
Leicht Auslösekopf



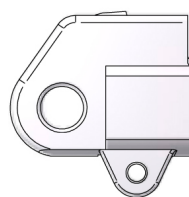
Art. Nr.

Monoblock Release Head
Monoblock Auslösekopf



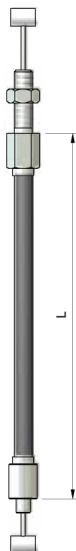
Art. Nr.

XL - Monoblock Release Head
XL - Monoblock Auslösekopf



Art. Nr.

Cable for Direct Connection
Bowdenzug für Direktverbindung



L : mm

The bending radius may not be smaller than R40mm.
Der Biegeradius darf R40mm nicht unterschreiten.

Max. cable length 1500mm
Max. Bowdenzuglänge 1500mm

Splitter
Splitter

Combination / Kombination		Cable Length / Bowdenzuglänge			
1 Release Unit Auslöseeinheit	2 Gas Springs Gasfedern	1	mm	4	mm
1 Release Unit Auslöseeinheit	3 Gas Springs Gasfedern	2	mm	5	mm
2 Release Units Auslöseeinheiten	1 Gas Spring Gasfeder	3	mm	6	mm

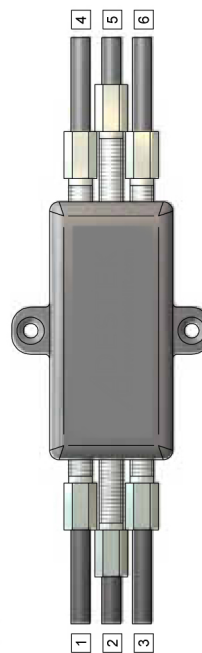
Please indicate cable length for each connection.
Bitte Bowdenzuglänge für jede Verbindung eingeben.

Max. cable length per cable 1500mm
Max. Bowdenzuglänge pro Bowdenzug 1500mm

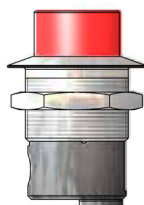
☐ Standard Splitter with two mounting holes on bottom
Standard Splitter mit Bodenanschlussbohrungen



☐ Splitter with two molded slots for easy mounting
Splitter mit seitlichen Anschlussflächen

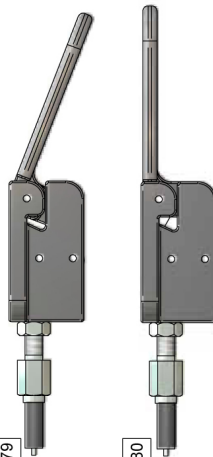


Push Button Release Unit
Auslöseknopf Auslöseeinheit



Art. Nr.

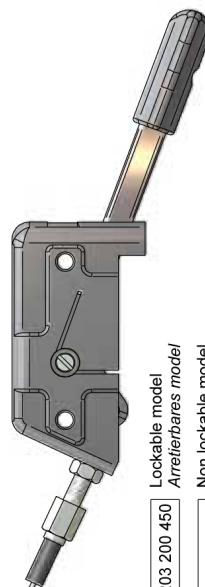
Flat Grip Release Unit
Flachtaster Auslöseeinheit



203 200 778
203 200 779

203 200 780

Standard Model Release Unit
Standard Model Auslöseeinheit



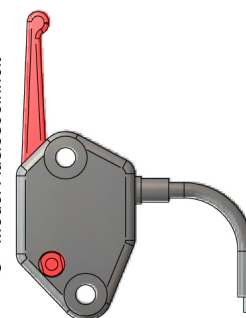
Lockable model
Arretierbares model

203 200 450

Non lockable model
Nicht arretierbares model

203 200 459

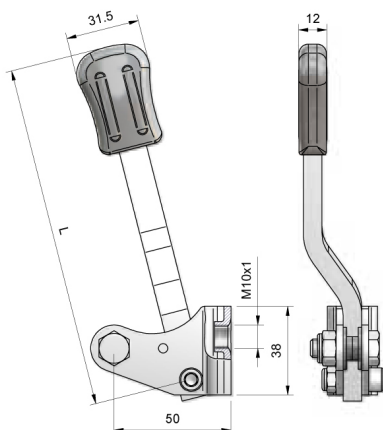
C - Type Release Unit
C - Model Auslöseeinheit



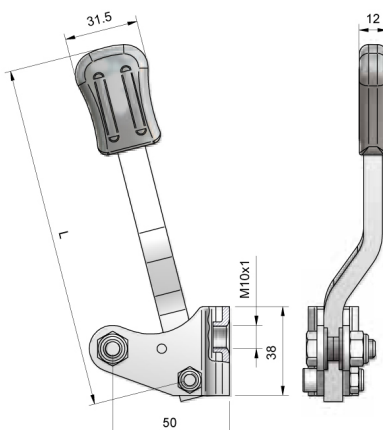
203 200 500

Dimensions in mm-We reserve the right to make modifications / Maßangaben in mm-Änderungen vorbehalten

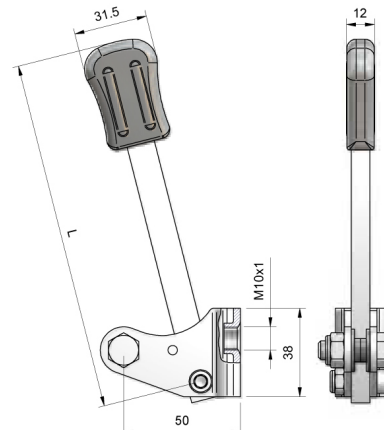
RELEASE SYSTEMS FOR PASSENGER SEATS ON BUSES
AUSLÖSESYSTEME FÜR BUSSITZE



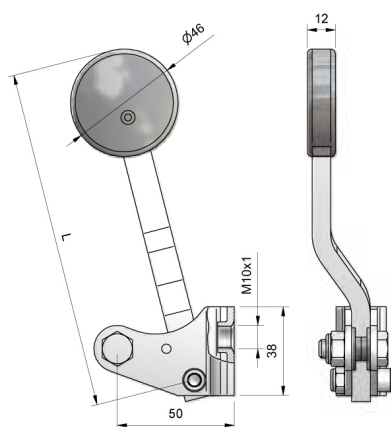
	Art. Nr.	L
Corridor Side - Left <i>Korridorseite - Links</i>	203 200 026	146
Window Side - Right <i>Fensterseite - Rechts</i>	203 200 024	242



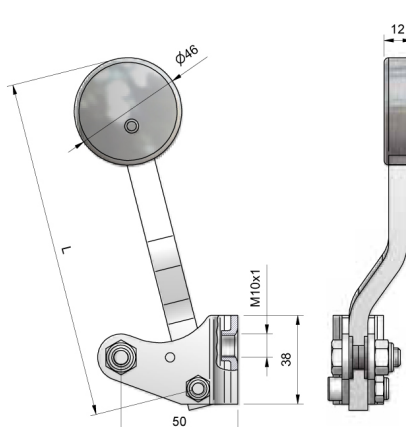
	Art. Nr.	L
Corridor Side - Right <i>Korridorseite - Rechts</i>	203 200 027	146
Window Side - Left <i>Fensterseite - Links</i>	203 200 023	242



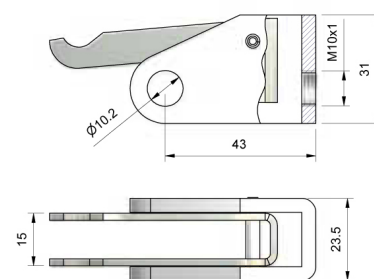
	Art. Nr.	L
Window Side - Right <i>Fensterseite - Rechts</i>	203 200 028	150
Window Side - Left <i>Fensterseite - Links</i>	203 200 029	180



	Art. Nr.	L
Corridor Side - Left <i>Korridorseite - Links</i>	203 200 050	146
Window Side - Right <i>Fensterseite - Rechts</i>	203 200 040	241

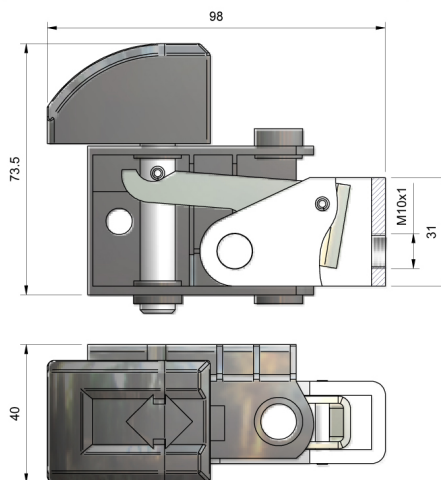
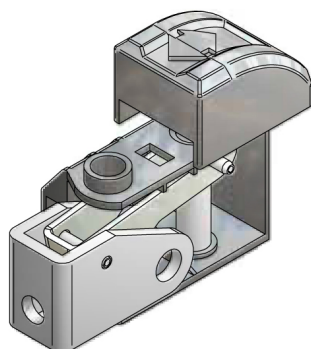


	Art. Nr.	L
Corridor Side - Right <i>Korridorseite - Rechts</i>	203 200 050	146
Window Side - Left <i>Fensterseite - Links</i>	203 200 040	241

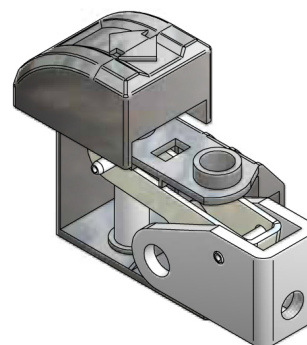


Release System for Seats
Auslösesystem für sitze
Art. Nr. 203 200 101

Left seat / *Linker sitz*
Art.Nr : 203 200 105



Right seat / *Rechter sitz*
Art.Nr.:203 200 106



For proper functioning of release system, the release way of the Blocklift must be 2.5 mm / *Für eine einwandfreie Funktion des Auslösesystems muß der Auslöseweg des Blocklifts 2.5 mm sein*

Dimensions in mm-We reserve the right to make modifications / *Maßangaben in mm-Änderungen vorbehalten*

RELEASE WAY

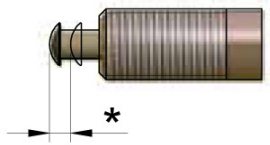
Extension Speed

RELEASE WAY

If not specified most Blocklifts are produced with a release way of 2.5 mm. Nevertheless, for some applications or for some release systems a shorter release way is compulsory. For this kind of application we offer alternative release way options.

Options

- min. 2.5 mm
- min. 1.5 mm
- max. 1.0 mm



Important Notice - Release way

The release way mentioned is not the release way when the internal locking system of the Blocklift fully opens, it just symbolises the minimum required release way enabling the locking system to start opening. To achieve a 100% opening of the internal lock, the release pin must be pressed for ~5 mm. Press the release pin for max. 6 mm.

To achieve a proper function of your Blocklift you can either use your own design release mechanism or you can select one from our release heads & release systems range starting on **page 48**.

Extension Speed

Although the main function of a gas spring is to provide force support they also provide a kind of speed control. When ordering a Gas Spring without mentioning your special speed requirement, it will be produced with our standard extension speed which is selected to suit most applications.

Depending on your application, gas springs can be manufactured with a special extension speed to reduce or to increase the opening/closing speed of your application.

Please contact our sales team to discuss your requirements on **+44 (0) 116 274 3600**

Important Notice - Extension speed

- Please note that the pneumatic speed is measured when piston rod is downwards.
- The speed control feature of gas springs is limited and an accurate speed control is not possible. Gas springs are not suitable for applications with very accurate speed control requests.



Protection Tube

As the piston rod has to be protected against dirt, scratches, paint and all kinds of damage, we offer our Blocklift type gas spring with a protection tube. The protection tube is available to suit your requirements, in plastic, metal (painted or galvanised) or stainless steel.

Working principle

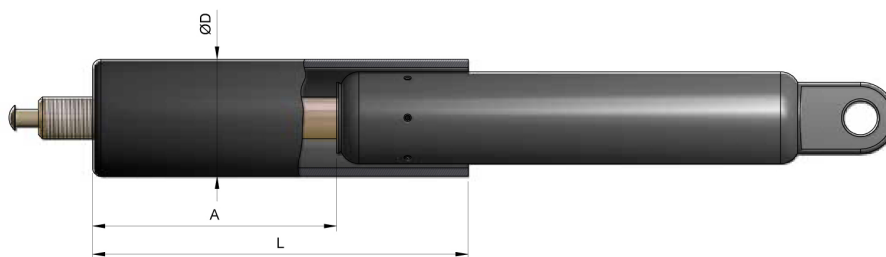
The protection tube covers the whole piston rod. When the gas spring is compressed the protection tube moves over the pressure tube.

This safety protection device is appropriate for applications:

- near to engine parts
- open to the environment (dust, rain, snow, etc.)
- in dirty surroundings
- in machinery and agricultural equipment

Technical details

In the table below you will see our standard dimensions for protection tubes. Our standard colour for metal protection tubes is black. The colour can be changed based on your preference. If a special colour is required please advise the RAL code. Protection tubes are also available 'galvanised', or in 'stainless steel'.



METAL			
Group	Ø D	L	Loss of Working Stroke
8/22	28	A + ~30	5 mm
10/22	28	A + ~30	5 mm
8/28	32	A + ~30	5 mm
10/28	32	A + ~40	5 mm
10/40	45	A + ~40	5 mm
14/40	45	A + ~40	5 mm

PLASTIC			
Group	Ø D	L	Loss of Working Stroke
8/22	25	A + ~30	5 mm
10/22	25	A + ~30	5 mm
8/28	32	A + ~30	5 mm
10/28	32	A + ~30	5 mm

How to order

To include a protection tube to your individual gas spring simply add to your order description the shortcut 'KM' for metal and 'KP' for plastic protection tubes. If you are interested in special coloured, galvanised or stainless steel protection tubes please do not hesitate to contact the sales desk.

Ordering Example

BL4-10/28-20-185-0N-VP18-T21-KM or KP

Valves

If the exact extension force cannot be specified or if the same gas spring is used on different applications where each has a different extension force, we offer gas springs with two different valve systems:

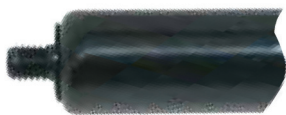
● RV Valve

Gas springs with this valve are charged with the maximum or with the required pressure. If the force of the gas spring is too high on the application, the end user will be able to release the force by releasing the screw placed at the tube end on the thread. The advantage of the RV Valve is that the pressure can be adjusted while the gas spring is mounted on the application.



● AV Valve

The AV Valve enables you to release and/or to refill the pressure of the gas spring. The valve is located inside the thread on the tube end. The pressure can be released by usage of a suitable depressurising unit. The force of gas springs equipped with AV Valve can only be adjusted while the end fittings are not assembled, in other words while the gas spring is not mounted on the application. The gas springs can be refilled with an appropriate refill device.



To release pressure from the AV valve, a depressurising unit as shown below can be used. This is available on request.



Advantages of the valve system

- Once you have specified your appropriate pressure and send it back to us we will measure the extension force and will supply your gas springs afterwards with the fixed force.
- Gas Springs with valve systems will give you more convenience for your applications where you need the same gas spring with different forces for every different hood type. You can make a stock of maximum pressurised gas springs and just adjust the pressure of each.

Important Notice

1. Both valve systems are only available for the following Blocklift types;
 - BL1 - Rigid in extension
 - BL3 - Spring Blocking
 - BL6 - Locking in extension - free travel in compression
 - Blocklift with override function in compression
2. Refill gas springs only with a refill device approved by us. Any usage of an unapproved refill device will cause expiration of any warranty.
3. For correct treatment regarding refill and release of the extension force, we ask you to request our operation instructions. Any treatment which is done without this operation instruction will cause expiration of any warranty.

How to order

To include a valve system in your chosen gas spring simply add the shortcut 'RV' for RV valve and 'AV' for AV valve to your order description.

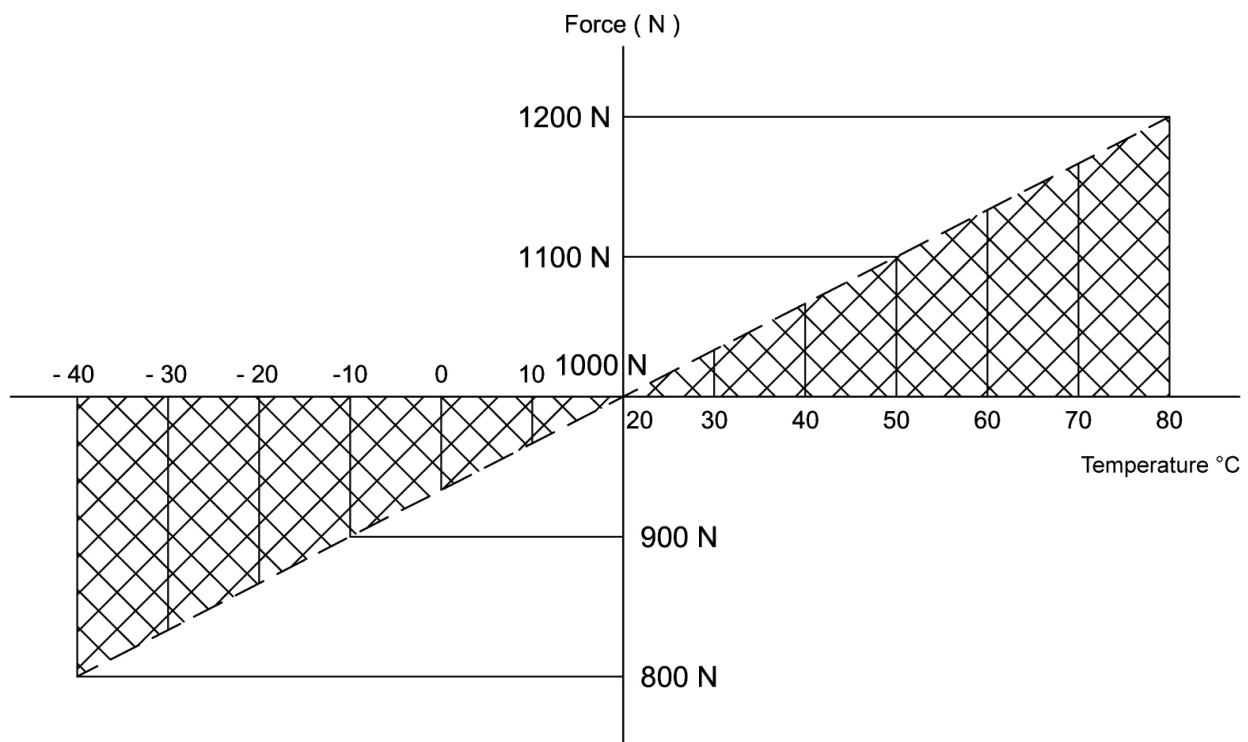
Ordering Example

BL1-10/28-30-218-200N-VP25-TE20-RV or AV

Standard gas springs are intended for an operating temperature of -30°C and +80°C.

The nominal force of a gas spring is measured at 20°C. The properties of nitrogen, in respect to temperature, change and this affects the F1 Force of the gas spring. Just like a thermometer, the pressure inside a gas spring rises and falls with temperature. For every 10°C change in temperature, the force changes approx. 3.3% in the same way.

The change of force is presented in the figure below :



20 °C = Mean Filling Temperature

Example

In the above figure a gas spring with F1-1000N at 20°C is presented. If the temperature rises to 50°C the effective F1 will increase to 1100N. If the temperature falls down to -10°C the effective F1 will decrease to 900N.

Important notice

The change of force not only affects the force of the gas spring, it may also effect the structure of internal compounds and therefore may cause failure of the gas spring.

Standard gas springs are made for an ambient temperature of -30°C to +80°C. Moreover, special sealings for temperatures of -45°C to +200°C are available. Please contact our sales department for your special requirements.

[illegible]

GENERAL

- 1 Standard gas springs are designed for surrounding temperatures from -30°C to +80°C.
- 2 Standard gas springs should not be used in the food industry. Special gas springs for food industry (food grade) are available on request.
- 3 Non-axial (side) forces must be avoided.
- 4 In cases of a long stroke, additional guidance is recommended.
- 5 Gas springs and dampers are not safety parts. If gas springs are fitted in applications where their failing would mean a risk of health or life, additional locking mechanisms must be employed.
- 6 Gas springs must not be used as a limit stop (in both directions). It is not recommended that the gas spring is retracted or extended over their respective stroke, in both directions. Where possible, physical stops should be employed.
- 7 Blocklift type locking products must not be overloaded when in the locked position. Warranty is excluded for failures due to overloads. Please consult us for allowed locking forces.
- 8 Minor quantities of hydraulic fluid may leak from the products.
- 9 All gas springs are marked with the warning 'Do not open', 'High Pressure' with the part number and production date beside it. We refuse any liability for every kind of damage if the marking is removed or unreadable (e.g. due to influences of the surrounding).

MOUNTING

- 1 If not determined otherwise gas springs should be mounted with the piston rod downwards. If the gas spring pivots around the horizontal during adjustment, the mounting orientation of the gas spring depends on the most frequent application end position.
- 2 Ensure that release heads are screwed on Blocklift gas springs until

the release lever touches the Blocklift release pin. If too much clearance is left or if the release lever stresses the Blocklift release pin too much the Blocklift might not function properly.

- 3 Do not press the release pin for more than 6 mm when releasing the Blocklift.
- 4 Blocklift type gas springs have a tube as the piston rod. It must be ensured that any liquids (such as water, cleaning agents, etc.) do not get into this piston rod tube hole. If possible, Blocklifts should be installed with the piston rod pointing downwards. Please consult us for preventive systems if these cannot be ensured.

MAINTENANCE

- 1 Gas Springs are maintenance free. It is not necessary to grease or oil the piston rod.
- 2 For longer lifetime expectancy please consider the following points:
 - a The piston rod of the gas spring should be protected against shocks, dirt and all kinds of scratches. Even minor damage (like small scratches) or dirt (like paint) may result in the failure of the unit (destruction of the sealing unit).
 - b The pressure tube of the gas spring should not be damaged or deformed.
 - c Do not use a standard gas spring in wet surroundings. Avoid corrosion.
 - d Do not tilt or bend gas springs.
 - e Any change of the gas spring through third parties will cause expiration of warranty.

DISPOSAL / RECYCLING

- 1 Do not open the gas spring without written instructions from Camloc.
- 2 Gas springs consist mostly of metal and could, with regard to the metal, be recycled.
- 3 Gas springs should not be placed over heat or in open fire. Do not throw the gas spring into fire!

STORAGE

- 1 Gas springs should be stored rod down.
- 2 Loss of pressure due to long storage is not to be expected, however storage of more than one year is not recommended.
- 3 After long storage the retraction or compression will be higher than the given nominal force. This is because of an initial breakaway force of the sealings sticking effect (slip-stick).
- 4 Storage of gas springs should be made according to 'First in – First out (FIFO)' method.

DESIGN / CHOOSING A SUITABLE GAS SPRING

- 1 Gas springs are produced and tested for highest customer satisfaction and maximum reliability. This technical catalogue, as well as our comprehensive advice, will help you in choosing your individual gas spring. But the employment and examination of the suitability for the respective application has to be tested by the user.
- 2 As the final application cannot be simulated by us we cannot guarantee any liability for the function and the lifetime of the final product if the application proposals or drawings are given by the final user.

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