

Camloc

Motion Control

Blocklift

Adjustable gas springs

The Camloc range of Blocklift gas springs work like conventional gas springs, with the addition of an internal locking mechanism that can be stopped immediately in any position. This locking mechanism only allows the spring to move while the release pin, located on either the end of the piston rod or the tube end, is activated.

Adjustable Blocklifts are commonly used for; back rest adjustment of passenger seats on buses, trains and office chairs, adjusting hospital beds, massage tables and wheelchairs and height adjustment on tables, desktops and school desks.

The majority of Blocklift gas springs are also available in 304 and 316L stainless steel.

A wide range of hydraulic, cable and lever release systems are available for Blocklift gas springs.

Benefits

- **Self contained unit and maintenance free**
- **Safe to use with easy positional control**
- **Available in stainless steel**
- **Single handed operation**
- **A wide range of release mechanism options available**
- **BS EN ISO 9001 Registered Company**



Camloc Blocklift size availability

Type	Description	Size Availability (mm)*						
		8-22	8-28	10-22	10-24	10-28	10-40	14-40
BL1	Rigid in extension	•	•	•		•	•	•
BL2	Rigid in compression		•	•		•	•	•
BL3	Spring blocking	•	•	•		•	•	•
BL4	Rigid in extension & compression			•		•		
BL5	M-Blocklift					•		
BL6	Rigid in extension – Not lockable in compression			•		•		
BL7	Rigid in compression – Not lockable in extension			•		•		
BL8	Gas Traction Blocklift					•		
BLT2	Rigid in compression					•		
BLT3	Spring Blocking				•	•		
BLT4	Rigid in compression					•		

The Blocklift Range

BL1 – Rigid in extension

This gas spring locks the piston in extension giving total rigidity, but will permit a few millimetres of movement in compression. Once the load is released, the piston rod automatically returns to the initial position. These springs can be mounted in any position.

BL2 – Rigid in compression

This gas spring provides total rigidity in compression, but will permit a few millimetres of movement in extension. Once the load is released, the piston rod automatically returns to the initial position. These springs can be mounted in any position.

BL3 – Spring blocking

This gas spring is ideal for applications where some comfort (cushioning or elasticity) is needed even when the Blocklift is locked.

When a load is applied, either in extension or compression to the locked Blocklift, the piston rod compresses but after a few millimetres it becomes harder to compress because of the increasing gas pressure inside. Once the load is released, the piston rod automatically returns to the initial position. Standard BL3 Blocklifts should be mounted with the piston rod down, although versions are available for mounting rod up or horizontally.

The BL3 can also be modified to be rigid in extension, providing a shorter stroke than a standard BL1; or rigid in compression, providing a shorter stroke than a standard BL2.

BL4 – Rigid in extension & compression

The BL4 is totally rigid in both extension and compression. It is available with or without an extension force, depending on whether you need the gas spring to control the application or if the application is controlled by an external mechanism.

BL5 – M-Blocklift

The BL5 is a compact and responsive gas spring with a fast extension speed and is ideal for height adjustment applications, such as tables and desks, etc. as it provides relative rigidity in compression and can be mounted either rod up or down.

BL6 – Rigid in extension – not lockable in compression

The BL6 gas spring is lockable and rigid in extension but is not lockable in compression. This gas spring is ideal if you need to control an application in extension (push out). The gas spring will freely compress (push in) when an external load is applied but will only extend when the release pin is activated.

BL7 – Rigid in compression – not lockable in extension

The BL7 works in the opposite way to the BL6. This gas spring is lockable in compression (push in) by activating the release pin but works freely in extension when the applied external load is removed.

BL8 – Gas Traction Blocklift

The principle of the BL8 is the opposite of standard gas springs. While a standard gas spring is always extending, the BL8 is designed to close and can be locked in any position.

T-Blocklift

The release pin on standard Blocklift gas springs is located on the piston rod. T-Blocklift gas springs have the release pin located on the tube end. This design allows shorter extended lengths compared to standard Blocklifts and is available rigid in compression and spring blocking.

If you have any questions about specifying gas springs, end fittings or release systems, please call +44 (0)116 274 3600.

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Vari-Lift, Swift & Sure, Stop & Stay and Econoloc are trade names of Camloc Motion Control Ltd.



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