

Camloc

Motion Control

Blocklift



Locking Gas Struts

The Camloc range of Blocklift locking gas struts perform like conventional gas struts, with the addition of a special internal locking valve that allows the strut to be locked in any position.

This locking mechanism only allows the strut to move whilst the release pin, located on the end of the piston rod, is depressed.

Common applications for Blocklift locking gas struts include; height and angle adjustment of seats on aircraft, buses, trains, specialist vehicles and on military vehicle seating. They are also used for providing controllable adjustment on hospital beds, physiotherapy tables and wheelchairs; as well as height risers for desks.

Blocklifts can be used on so many different applications across such a wide range of industry sectors that their use is really only limited by the design engineers imagination!

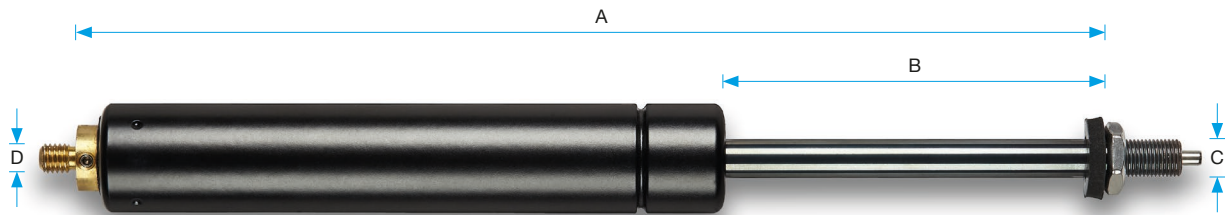
Benefits

- Locks in any position on length of stroke
- Single handed operation
- Safe to use with easy positional control
- Self-contained unit and maintenance free
- Available in carbon or 316L stainless steel
- UK manufactured product
- ISO 9001 registered company



An extensive range of sizes and forces

Gas struts are commonly referenced by their size. The sizes directly relate to the diameter of the rod and the tube, for example, an 8-23 Blocklift will have a rod diameter of 8mm and a tube diameter of 23mm.



Blocklift Type	Description	Size (mm)	Max. Approx. Lift Weight (kg)	Extended Length (mm) Min / Max A	Stroke (mm) Min / Max B	Thread Size C	Thread Size D	Max. Force Per Strut (Newtons) Min / Max
BL1	Rigid in extension	8 - 23	10 - 45	140 / 600	30 / 240	M8 x 1.0	M8 x 1.25	100 / 450
		10 - 23	15 - 60	155 / 770	30 / 300	M10 x 1.0		150 / 600
		10 - 28	15 - 100	145 / 760	30 / 300	M10 x 1.0	M10 x 1.5	150 / 1000
BL2	Rigid in compression	8 - 23	10 - 45	155 / 570	30 / 200	M8 x 1.0	M8 x 1.25	100 / 450
		10 - 23	15 - 60	165 / 700	30 / 230	M10 x 1.0		150 / 600
		10 - 28	15 - 100	155 / 730	30 / 270	M10 x 1.0	M10 x 1.5	150 / 1000
BL3	Spring blocking / elastic	8 - 23	10 - 45	125 / 660	30 / 300	M8 x 1.0	M8 x 1.25	100 / 600
		10 - 23	15 - 60	130 / 870	30 / 400	M10 x 1.0		150 / 1000
		10 - 28	15 - 100	120 / 860	30 / 400	M10 x 1.0	M10 x 1.5	150 / 1000
BL4	Rigid in extension & compression	10 - 28	0 - 40	135 / 660	25 / 300	M10 x 1.0	M10 x 1.5	0 / 400

Camloc Blocklift products are manufactured from min to max in 1mm rod and tube increments and 5N force increments, subject to volume

The Camloc Blocklift Range

BL1: Rigid in Extension

This gas strut locks the piston in extension giving rigidity, but will allow a few millimetres of movement in compression. Once the load is released, the piston rod automatically returns to the initial position. These locking gas struts can be mounted in any orientation.

BL2: Rigid in Compression

This gas strut provides rigidity in compression, but will allow a few millimetres of movement in extension. Once the load is released, the piston rod automatically returns to the initial position. These locking gas struts should be mounted rod down.

However, it is possible to mount in any position, but this needs to be advised at the time of enquiry.

BL3: Spring Blocking (Elastic)

These locking gas struts are ideal for applications where some comfort (cushioning or elasticity) is needed even when the Blocklift is locked in position. When a load is applied to the locked gas strut in either extension or compression the piston rod compresses a few millimetres. After a few millimetres it becomes harder to compress due to the increased pressure inside. Once the load is released, the piston rod returns to its initial position. These locking gas struts should be mounted rod down.

BL4: Rigid in Extension and Compression

The BL4 locking gas strut is rigid in both extension and compression. It is available with or without an extension force, depending on whether you need the gas strut to control the application or if the application is controlled by an external mechanism. These locking gas struts can be mounted in any orientation.

Adjustable Force Valve and De-gassing

BL1 & BL3 Blocklifts can also be supplied fitted with a brass Vari-Lift valve. The force in the gas strut is set to the maximum. Each Blocklift can then be de-gassed in-situ on the application to the force required using a standard 2mm Allen key.

As well as the standard range of Blocklifts, other sizes and types are available. Camloc also offers a bespoke design service. Contact one of our technical engineering team about your specific requirements via our website at: www.camloc.com.

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