

# **Camloc**

*Motion Control*

## **Camloc Gas Springs**

**Industrial gas spring & damper solutions**



## 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 Camloc gas springs have been manufactured by Camloc Motion Control Ltd in the United Kingdom and supplied to thousands of customers worldwide, across a variety of industry sectors.

## What is a gas spring?

In simple terms, a gas spring is a sealed energy source containing a pressurised inert gas (Nitrogen) and a small amount of oil. Being self contained units, they require no power source or maintenance. Manufactured in either mild or stainless steel, they are of tough rigid construction with high structural integrity.

## Camloc gas springs

Camloc gas springs provide direct support for safely lifting, positioning, lowering and counterbalancing weights. They offer the versatility of a wide range of forces, simple mounting, compact size, speed controlled damping and cushioned end motion, combined with a flat force curve.

A wide range of size options is available, covering rod diameters from 6mm to 14mm and tube diameters from 15mm to 28mm.

## The Camloc product range



### Swift & Sure

Swift & Sure is one of the most popular Camloc gas springs and is available in an extensive range of sizes for a wide variety of applications.



### Stop & Stay

Stop & Stay gas springs enable multi-position holding of a counter balanced weight over the entire stroke of the gas spring.



### Econoloc

Econoloc gas springs eliminate the need for separate safety rods in critical lift-assist applications. They positively lock when fully extended, protecting the operator from potential injury in the event of overload or misuse.



### Blocklift

Blocklift gas springs can be stopped at any position during operation. They are fitted with a special locking valve that will only allow the spring to be moved when a release pin is pressed.

The weight range supported by Camloc gas springs can be from a few kilos up to half a tonne (5000 Newtons). Camloc gas springs incorporate proven engineering techniques, with thousands of cycles of testing, to ensure they meet the standards demanded by customers.

Camloc gas springs are produced to the highest international standards, including BS EN ISO 9001.

## Customer service and quality manufacture

Camloc Motion Control Ltd has built up an enviable reputation for providing first class customer service, recognising that no two applications are the same.

### Camloc gas springs offer:

- Stroke increments of 5mm
- Tube increments of 1mm
- Force increments of 5 Newtons

For complete satisfaction, Camloc gas springs are made to order to suit even the most exacting requirements, with its team of sales and technical engineers ready to work with customers from initial discussion through to final installation.

Camloc gas springs are tested for performance and fitness for purpose. In-house test equipment is available for mechanical strength tests, thermal tests (-40°C to +140°C), salt spray, humidity, cycling and actual application tests to ensure reliability and full product safety. These facilities are also available to support customer field trials.

Camloc Motion Control Ltd has the flexibility and manufacturing resources to react quickly to customer demands, whilst providing a quality product.

## Technical support and bespoke design solutions

Design engineers, employing the latest CAD technology, work closely with customers to design a spring that meets their specific needs. Together, selecting the most appropriate gas spring and rapidly providing prototypes to test on customer applications.



### Vari-Lift

Vari-Lift is an adjustable force gas spring that can be adjusted to meet individual preferences. It can also be adjusted whilst in position, saving you both time and effort.



### Stainless Steel

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



### Dampers

Camloc dampers are specifically designed to influence the characteristics of movement. They provide a controlled arrest of a weight or lid across a variety of industrial applications. Typical motion control uses for dampers include; velocity control, deceleration control and momentum change.



### End Fittings

A wide range of end fittings is available to suit your application, manufactured from a range of finishes and materials including nylon, steel and zinc.



### Mounting Brackets

The range of Camloc gas springs is complemented by specially designed mounting brackets. The mounting brackets suit the extensive range of end fittings, creating a wide range of easy-to-assemble fixing options.

**Camloc Motion Control Limited**

15 New Star Road, Leicester LE4 9JD UK

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

E-mail: [info@camloc.com](mailto:info@camloc.com) Website: [www.camloc.com](http://www.camloc.com)



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