

Swift & Sure

Standard lift gas spring

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

Swift & Sure is an entirely self-contained, maintenance free, hydro pneumatic ram which is charged under pressure with an inert gas. It has the characteristics of a compression spring which, coupled with a small change in force as it extends, provides a controlled rate of movement. At the end of the extension stroke, oil damping occurs due to a hydraulically cushioned zone. These features help protect hinges and mounts by applying constant force with a damped end of travel.

Camloc Motion Control Ltd prides itself on its service to customers, with design engineers on hand to work with you using the latest CAD/CAE techniques. Recognising that no two applications are the same, Camloc Motion Control Ltd provides engineered solutions to meet your exact requirements.

Together, we can select the most appropriate gas spring for your application and provide prototypes within 14-days for testing on your application. Swift & Sure gas springs are ideally suited for use on many applications such as access panels, lids, covers, guards, bonnets and hatch covers.

Benefits

- **Custom design, sized to your application**
- **Self contained unit and maintenance free**
- **Safe to use with easy positional control**
- **Custom force setting with either fixed or adjust-yourself option**
- **Over 2,500 different combinations**
- **BS EN ISO 9001 Registered Company**





An extensive range of sizes and forces

Gas springs are commonly referred to by their size. Typically, the four common sizes for gas springs are 6-15, 8-18, 10-23 and 14-28, although other sizes are available. The sizes directly relate to the diameter of the rod and the tube, for example an 8-18 will have a rod diameter of 8mm and a tube diameter of 18mm.

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Swift & Sure Size Range	Range of Stroke Lengths (in 5mm increments)	Range of Tube Lengths (in 1mm increments)	Force Range (in 10 Newton increments)	Thread Type (M)
6-15	40-200	75-230	50-400 (11-90lbs)	M5 x 0.8
8-18	40-300	85-345	100-650 (22-146lbs)	M6 x 1.0
10-23	40-400	85-445	150-1200 (34-269lbs)	M8 x 1.25
14-28	40-500	95-555	200-2500 (45-562lbs)	M10 x 1.5

Other sizes are available, please contact us to discuss your application.

Size & force for Vari-Lift™ versions

For Vari-Lift™ versions add 5mm for the valve when calculating the extended length. The force is set to the maximum as standard but can be pre-set lower as required.

See our End Fittings leaflet for the comprehensive range available.

If you have any questions about specifying gas springs or end fittings, 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.

