

## Cam-Shoc SCD

### Self Centering Damper

The Self Centering Damper, 'Cam-Shoc SCD' is an extremely cost-effective product, offering a solution for a range of engineering situations. This damper is available in both carbon and stainless steel, in a range of sizes, and end fittings for a wide variety of applications.

The self centering damper is a bi-directional damper designed to allow movement in both extension and compression, with a controlled rate of return from either direction to a neutral, mid-stroke position.

Self centering dampers are non-cavitating and as such can be mounted in any orientation without loss of function. This damper is the overwhelming choice on all applications where the end user interacts with the damper due to its superior "feel".

### Key Benefits of SCD

- Automatically returns to a central position
- Bi-directional, non-cavitating damping
- Available in two stroke lengths
- Available in two centering forces
- Available in carbon or 316L stainless steel
- UK manufactured product
- ISO 9001 registered company
- Can be supplied with a range of end fittings
- Compact design with high durability and reliability



## An extensive range of dampers specifically engineered for your application

Like gas springs, dampers are commonly referred to by their size. The sizes directly relate to the diameter of the rod and the tube. Camloc's range of Self Centering Dampers are 8-23 diameter, meaning they will have a rod diameter of 8mm and a tube diameter of 23mm.



| Part Number      | Size<br>(mm) | Material        | Centering force<br>(N/lbs) | Extended length<br>(mm)<br>A | Stroke<br>(mm)<br>B | Thread size<br>(mm)<br>C | Damping Direction       |
|------------------|--------------|-----------------|----------------------------|------------------------------|---------------------|--------------------------|-------------------------|
| GS-5F-9396-xx-xx | 8-23         | Carbon Steel    | 40 [9]                     | 188                          | +/- 19              | M6x1.0                   | Extension & Compression |
| GS-5F-9455-xx-xx | 8-23         | Carbon Steel    | 56 [12]                    | 188                          | +/- 19              | M6x1.0                   | Extension & Compression |
| GS-5F-9301-xx-xx | 8-23         | Carbon Steel    | 40 [9]                     | 287                          | +/- 30              | M6x1.0                   | Extension & Compression |
| GS-5F-9550-xx-xx | 8-23         | Carbon Steel    | 56 [12]                    | 287                          | +/- 30              | M6x1.0                   | Extension & Compression |
| GS-5F-9423-xx-xx | 8-23         | Stainless Steel | 40 [9]                     | 188                          | +/- 19              | M6x1.0                   | Extension & Compression |
| GS-5F-9440-xx-xx | 8-23         | Stainless Steel | 56 [12]                    | 188                          | +/- 19              | M6x1.0                   | Extension & Compression |
| GS-5F-9518-xx-xx | 8-23         | Stainless Steel | 40 [9]                     | 287                          | +/- 30              | M6x1.0                   | Extension & Compression |
| GS-5F-9531-xx-xx | 8-23         | Stainless Steel | 56 [12]                    | 287                          | +/- 30              | M6x1.0                   | Extension & Compression |

Gas struts and dampers make up a wide variety of the motion control solutions that we rely on each day. The self centering dampers replaces a combination of springs and dampers with a single compact and cost-effective unit.

The most common use of this technology is to control the hydrostatic transmissions on zero turn lawn mowers and accelerator pedals for small to medium size tractors. When the damper is linked to a control lever or pedal it provides a controlled rate of actuation and return to a positive neutral position.

If you have a project where an item needs to be pushed forward or pulled backwards, and then return to a central 'neutral' position, our self centering damper could be the answer.

This is an entirely self-contained motion control solution combining the properties of both a damper and gas spring. It has the characteristics of a traditional damper which, when partnered with a small change in force as it extends and retracts, provides a diverse, controlled rate of movement.

If you are looking for guidance on installing, mounting or maintaining dampers, visit our Help Centre today.

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

