

# LOCKABLE GAS SPRING

General information

## STANDARD RANGE

Our standard range of lockable gas springs comprises 70 different items that can be combined with a number of operating controls and end fittings.

You can find details of our standard range of lockable gas springs and operating accessories on pages 194–197.

We can also offer variants of lockable products or products produced to your own custom specifications. More information about the custom variants we produce can be found on page 193.

You can also visit our website, [www.lesjoforsab.com](http://www.lesjoforsab.com), which features all the latest product news.

## FIELDS OF APPLICATION

Lesjöfors lockable gas springs are used in situations where you want to lock stroke movement in the required position without using external locking mechanisms.

Typical areas of use include stepless desk setting, chair seats and chair backs, fitness machines, control panels and consoles, beds and patient equipment. In short, all applications where ergonomic requirements demand stepless setting.



## TECHNICAL INFORMATION

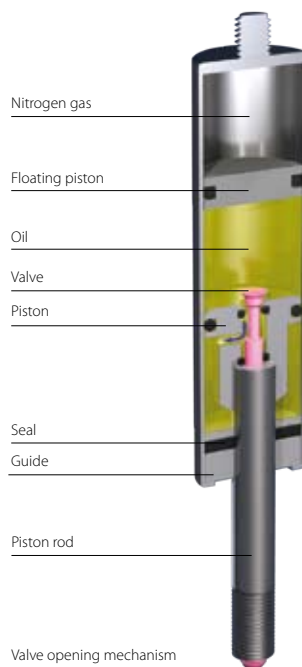
The lockable gas spring has a piston with a built-in valve, which can be opened and closed by the user via a mechanism integrated in the end of the piston rod. In the closed position, no oil or gas is allowed to pass by the piston, locking the stroke.

Lockable gas springs with a rigid locking function have oil on both sides of the valve-equipped piston. A certain volume of nitrogen, separated from the oil, produces gas spring characteristics. Lockable gas springs with a sprung (elastic) locking function have nitrogen on both sides of the valve-equipped piston.

## LOCKABLE GAS SPRING TYPE RLE

The Lesjöfors lockable RLE (Rigidly Lockable in Extension) gas spring is part of our standard range and is the most universal of the lockable products available. The valve-equipped piston in the RLE spring is enclosed by oil on the piston side of the tube. The other end of the tube contains a small amount of compressed nitrogen gas, separated from the oil by a floating piston. This design produces a high, rigid locking force in the direction of extension.

RLE springs are suitable for use in various applications, including adjustment of back supports or the raising and lowering of work surfaces, screens, desks and instrument panels.



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## CUSTOM RANGE

As with our conventional gas springs, we can offer custom solutions and special products for situations when our standard range is insufficient.

In addition to special lengths, forces, colours, finishes and end fittings for RLE products, we can also offer the following other product types.

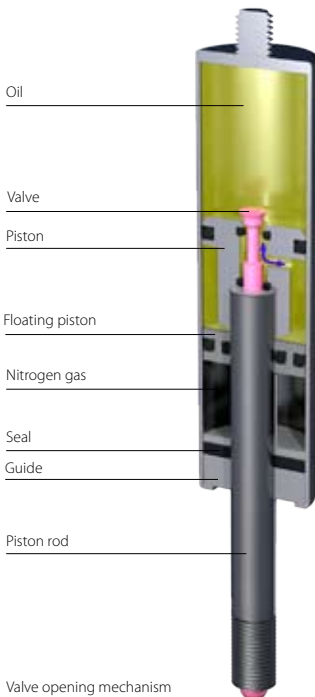
### RLC (Rigidly Lockable on Compression)

Lockable RLC gas springs have a floating piston enclosing the piston rod. This separates the nitrogen gas closest to the tube's piston rod side from the oil in the rest of the tube.

This design ensures that a rigid and high locking force is obtained in the direction of compression.

RLC is suitable if you want rigid locking of designs where heavier loads may occur in the gas spring direction of slide.

Common applications include care beds for heavier patients, massage tables and suchlike.



### EL (Elastically Lockable)

This product type has no floating piston and has nitrogen gas on both sides of the valve-equipped piston instead of oil, meaning that it can provide sprung locking in both directions.

A lockable EL gas spring is ideally suited for instances where energy absorbing deflection is required in both directions.

One example of this area of use is furniture where sprung comfort is required.

