BLOC-O-LIFT® Gas Spring (general)

The BLOC-O-LIFT gas springs are ideal locking gas springs. They can be used for applications where support, damping, as well as infinite locking ability is required. This is achieved with a special patent, unique locking. If the drive is not there, BLOC-O-LIFT provides force support and damping if the user chooses gas spring units and provides higher resistance to any motion. Basically, there are two types of valve design: a sliding valve with standard actuation of 2.5 mm, and the next valve with an actuation of 1.1 mm for necessary short actuation distances.

BLOC-O-LIFT can have spring or rigid locking. The rigid locking version is also available in a vertical orientation specifically. Depending on the applications BLOC-O-LIFT can be equipped with a patented corrosion-free actuation design.

Primary application areas for BLOC-O-LIFT gas springs are in furniture manufacture, medical technology, building technology, automotive design, and heavy industrial applications.

Advantages:
- Infinite variable locking in the position

BLOC-O-LIFT® with especially flat spring characteristic curve

BLOC-O-LIFT with especially flat spring characteristic curve is a recent range of gas springs with a particularly flat spring characteristic. It is developed as a rigid locking gas spring with a special control valve, which has a minor change in slope over the entire stroke. It provides precise, controllable adjustment and locking of the gas spring. BLOC-O-LIFT takes care of the entire design and actuation and is available in any position. The available actuation valve can be separately locked in all directions or controlable. The BLOC-O-LIFT® has been integrated successfully in furniture, especially in single and double-column tables, desks, nightstands, stools, hospital adjustable beds, etc.

Specific advantages:
- Great force distribution over the entire stroke
- Compact design with a sliding drive

BLOC-O-LIFT® with rigid locking, can be mounted in any orientation

Under the rigid locking BLOC-O-LIFT, when the gas characteristic curve being used, the overall working range of the piston is fixed. Depending on the installation of an ideal separating piston, which separate the gas phase from the oil phase, different locking forces can be achieved in the extension or compression directions. The maximum allowable locking force depends on the maximum force and the overall device strength.

Specific advantages:
- Very high locking force
- Can be installed in any orientation

BLOC-O-LIFT® rigid locking, vertical installation

In the version of rigid locking gas springs, the entire working range of the piston is fixed. Depending on the installation of an ideal separating piston, which separate the gas phase from the oil phase, different locking forces can be achieved in the extension or compression directions. The maximum allowable locking force depends on the maximum force and the overall device strength.

Specific advantages:
- Very high locking force
- Can be installed in any orientation

BLOC-O-LIFT® rigid locking, vertical installation

In the version of rigid locking gas springs, the entire working range of the piston is fixed. Depending on the installation of an ideal separating piston, which separate the gas phase from the oil phase, different locking forces can be achieved in the extension or compression directions. The maximum allowable locking force depends on the maximum force and the overall device strength.

Specific advantages:
- Very high locking force
- Can be installed in any orientation

BLOC-O-LIFT® with override function

A special form of the BLOC-O-LIFT gas spring is the additional override function. Typically, the gas springs are designed to be set by special customer requests, to be protecting against unwanted release. The override function is available for extension and compression direction. It can be installed in locking gas spring height adjustment independent of vertical installation. The override force can be defined within certain limits.

Specific advantages:
- Development

BLOC-O-LIFT® OBT without locking in extension direction

Built-in OBT provides additional override function. Thus, the BLOC-O-LIFT can be locked in any direction. Usually, the OBT function of gas springs is used in vertical installations.

Typical areas of application are table adjustment systems in hospital beds and in patient furniture.

Individual Solutions for Many Applications

To find out more about STABILUS products, contact us directly. STABILUS is the world market leader with an annual production of more than 120 million units.

By now, the range of applications for STABILUS products are nearly unlimited. In many areas, STABILUS products are found offering solutions to any motion control.

STABILUS is known for technical innovation, quality, and competitive pricing. Off course, individual, extensive consultation and in some cases, customization is the application can be seen for granted with STABILUS.

The STABILUS application consultants and technicians will make our expert advice for you and give you a quote.

www.stabilus.de