

STABILUS

Stainless Steel Gas Spring
LIFT-O-MAT **INOXLINE**

INOX



...technology gives comfort

STABILUS – A company with an innovative tradition



State of the art product development

Production systems designed and built In-House

Continuous quality control in our own test labs

Optimum training in our own training centers

Pioneering achievements

STABILUS has over 60 years experience in the manufacture of hydropneumatic equipment. In addition to having produced hydraulic dampers over several decades, STABILUS presented the world's first standard production gas spring in 1962. To date, it has produced over 1.2 billion gas springs. With its two product lines – gas springs and hydraulic vibration dampers – STABILUS is the world market leader with an annual production of some 100 million units.

Worldwide operations

With a global distribution and service network and 10 production facilities in Europe, USA, Mexico, Brazil, New Zealand, Australia and Korea, STABILUS supplies and services over 2,000 customers world-wide.

Stainless steel gas springs for the most exacting applications

A compact design, a high level of functional comfort, and high operational safety, combined with the special material properties of stainless steel open up many new opportunities:

For example, in ship building...

STABILUS gas spring facilitate opening and safe propping of flaps and covers, even in a salt-water environment.

For example, in environmental technology...

They easily and safely open and close maintenance flaps and manholes, without polluting the water.

For example, in medical technology...

STABILUS gas springs made of stainless steel can be used in medical devices, hospital beds, and operating tables, especially when non-magnetic properties are required in addition to total cleanliness.

For example, in the food and pharmaceutical industry...

When the gas spring has to be robust against external environmental effects, stainless steel gas springs from STABILUS do convince for many years by their full function and attractive appearance.

Customer satisfaction

Customer service and customer satisfaction are key objectives for the company. STABILUS is known in particular for its technical innovation, quality and competitive pricing in all its business units.

Highest Quality

As the leading gas spring supplier worldwide, our quality management system fulfills without question the high quality requirements of international standards, such as DIN EN ISO 9001, as well as the new world standard ISO/TS 16949 with the regulatory requirements of QS 9000, VDA 6.1, EAQF, and AVSQ.

Care for the environment

STABILUS places utmost importance in achieving environmentally friendly production methods. Its success in this area is documented by the certification of its environmental management system in conformity with DIN EN ISO 14001.

Service and technical application support

STABILUS provides extensive technical, design and installation support in specific applications as a matter of course. The extensive know-how of our application consultants and technicians coupled with our highly efficient installation proposal programmes and practical arrangements, also on site, ensure optimal solutions.

LIFT-O-MAT INOX-Line

Product Properties, Advantages, Benefits



Corrosion-resistant and not detrimental to the water supply



Non-magnetic due to a high stainless steel content



Special selection of stainless steel end fittings

Corrosion-resistant

The special material characteristics of the stainless steel used in the INOX line of STABILUS gas springs ("Stainless Steels" according to DIN EN 100 88-1) ensure a high level of protection against acid or lye stress, or when used in a critical environment, such as a sea or industrial air.

Non-magnetic

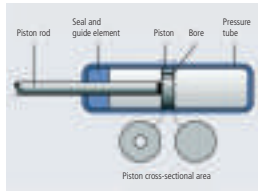
Careful material selection of the components used in the STABILUS stainless steel gas springs of the INOX line result in an almost iron-free product, with almost no effect on magnetic fields, such as those used in medical technology.

Will not pollute the water

The stainless steel gas springs of the INOX line only use environmentally friendly oils that are biodegradable and classified as "no hazard to water" in the water hazard class (WGK). This is especially important for the water supply and environmental technology.

Function of a gas spring

The gas spring is filled with nitrogen, which, under pressure, acts on different size piston diameters. This results in a force in the extension direction. This push-out force can be exactly defined within physical limits.

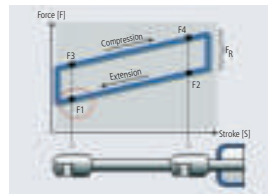


Hydraulic damping

The push-out speed is dependent on the arrangement and the diameter of the bores in the piston, as well as the viscosity of the oil used. If the gas spring is installed with the piston rod pointing down, the piston rod moves much slower, as soon as the piston plunges into the oil.

Spring characteristic curve and F1 force

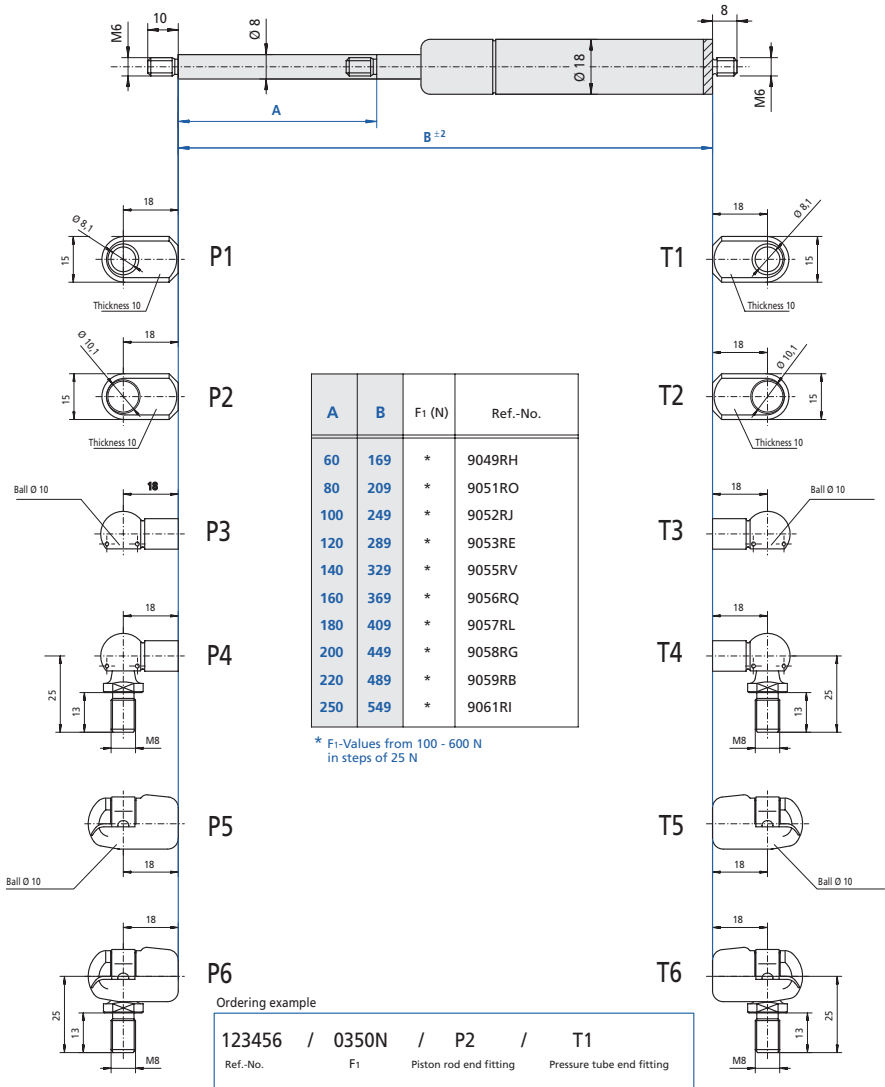
The spring characteristic curve describes the path of force of the gas spring from the extended position to the compressed one and vice-versa. Unlike mechanical springs, gas springs have a very flat, almost linear characteristic curve, thus allowing for an even, comfortable adjustment or swivel motion.



Defined extension speed

A major difference of the gas spring compared with a mechanical spring is its defined extension speed, which makes a dampened and comfortable adjustment motion possible.

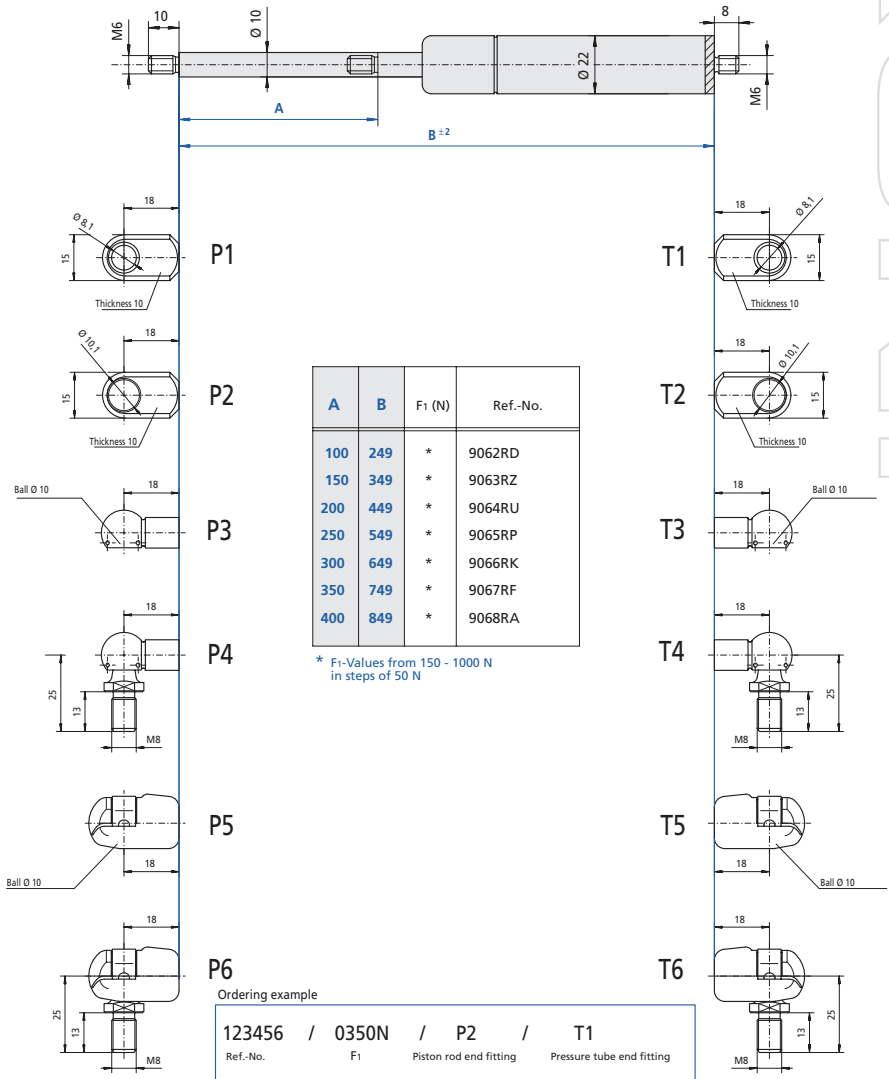
INOX-Line-Stainless Steel Gas Springs Assembly Programme 8/18



Installation according to STAB-Spec.10005630

Dimensions in mm / We reserve the right to make modifications

INOX-Line-Stainless Steel Gas Springs Assembly Programme 10/22



Installation according to STAB-Spec.10005625
Dimensions in mm / We reserve the right to make modifications



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Not responsible for changes and typographical errors.