



Standard programme for
springs and dampers

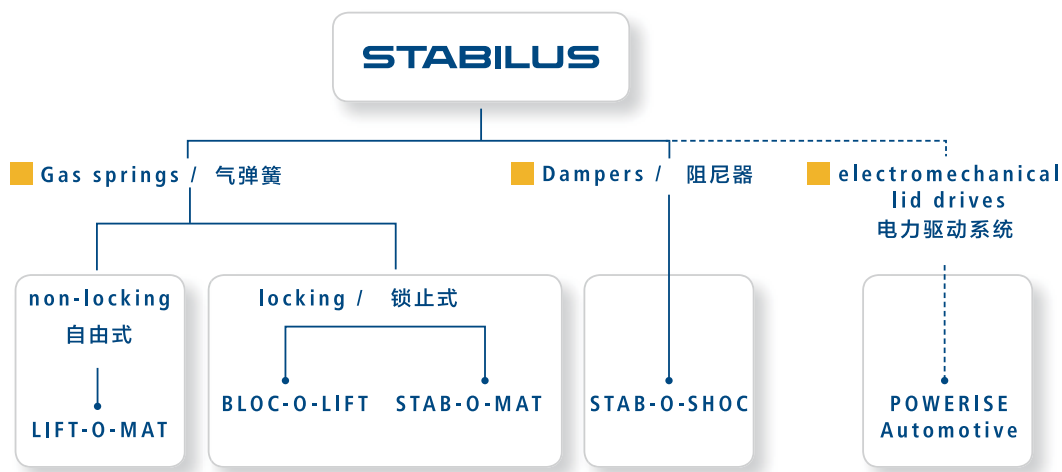
气弹簧选型手册

LIFT-O-MAT®

BLOC-O-LIFT®

STAB-O-SHOC®

STAB-O-MAT®



A broad path to success

As the world market leader for gas springs and hydraulic vibration dampers and as a kinematics specialist, STABILUS is a competent partner for its customers and with more than 15,000 product variants, it can offer the right solution for any application. Our unique technologies are classified into the following product groups:

■ **LIFT-O-MAT:** Gas springs for variable opening, positioning and holding across the entire adjustment range, such as they are used in the furniture sector and the automotive and commercial vehicle industry, in building mechanical systems and other industrial applications.

■ **BLOC-O-LIFT:** Locking gas springs for variable adjustment with even force distribution across the entire stroke, such as in height-adjustable tables, standing desks, work surfaces and applications in medical technology.

■ **STAB-O-MAT / STAB-O-BLOC:** Ready-to-install swivel chair gas springs in different installation lengths for comfortable shock absorption over the entire adjustment range.

■ **STAB-O-SHOC:** Supportive damper technology in various models for applications requiring high forces, such as convertible roofs, belt tensioning and steering systems in automotive applications,

commercial vehicle seats, washing machines, smoke exhaust flaps, as well as heavy lids and doors that open vertically.

■ **POWERISE:** Electromechanical drive systems that are used in the automotive sector for safe, convenient opening and closing of trunk lids and tailgates. In this area, STABILUS as a system supplier will assume responsibility for the overall function.

STABILUS stands for technology leadership, excellent service, professional consulting and guaranteed quality standards.

迈向成功的大道

作为世界领先的气弹簧和液压震动阻尼器供应商，同时作为动力学专家，斯泰必鲁斯是我们客户的卓越合作伙伴。我们拥有超过15000种产品型号，能够根据客户的不同需求提供最佳解决方案。我们独特的技术可以分为以下产品类型：

■ **LIFT-O-MAT:** 是指在整个调整范围内可开启，定位，和固定，因此可以应用在家具行业，汽车与商用车行业，建筑机械和其他工业行业的气弹簧。

■ **BLOC-O-LIFT:** 是指在整个行程中可变调节，力值均匀分布的锁止式气弹簧，因此可以使用在高度可调桌，站立式办公桌，工作台和医疗科技领域的应用。

■ **STAB-O-MAT:** 是指可直接安装的转椅用气弹簧，其在整个调整范围内的不同安装长度可进行舒适性减震。

■ **STAB-O-SHOC:** 是指支持型阻尼器技术，可应用在敞篷车顶，皮带张紧和转向系统等汽车应用领域，

以及商用车座椅，洗衣机，排烟机，以及垂直打开的重型行李箱盖和车门等需要较大支撑力的多种应用模式。

■ **POWERISE:** 是指用于汽车行业的机电驱动系统，以安全便捷的开启和关闭行李箱盖和尾门。在这方面，作为系统供应商，斯泰必鲁斯将对总体功能负责。

斯泰必鲁斯代表着技术领先，卓越服务，专业技术咨询，和有保证的质量标准。



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STABILUS

We'd like to introduce ourselves
自我介绍

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LIFT-O-MAT®

Lifting, lowering, moving, adjusting
举升、下降、移动、调节

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LIFT-O-MAT®

BLOC-O-LIFT®

Variable positioning, rigid or spring blocking
位置调节、刚性或弹性锁止

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BLOC-O-LIFT®

STAB-O-SHOC®

Hydraulic dampers give comfort in any situation
液压阻尼器在各种领域创造舒适

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STAB-O-SHOC®

STAB-O-MAT®

Stepless height adjustment of swivel chairs
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STAB-O-MAT®

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Stabilus moves

The innovative gas springs and dampers from Stabilus assist with lifting and lowering, opening and closing. They move, hold and dampen. Our gas springs and dampers are used wherever automatic, force-assisted opening at a defined speed, variable positioning and safe holding in place are required, such as lids, doors, etc. – be it in automobiles or utility vehicles, swivel chairs or industrial systems.

In addition to innovative high-

quality, high-end products, Stabilus stands for efficient, customer-oriented solutions. We take a standard product and customize it according to the requirements and wishes of our customers. Or we develop a new one. We refine, optimize, improve. Continuously.

As a Stabilus customer, you expect the highest quality and maximum performance in service and individualized consultation. When designing

our processes, the most important benchmark we use is always customer satisfaction:

Your satisfaction is our goal.

Stabilus 动向

斯泰必鲁斯制造的创新型气弹簧和阻尼器能够帮助实现举升和降下，打开与关闭。它们移动，保持，和减震。我们的气弹簧和阻尼器能够以设定的速度，可变的位置，安全的固定，使用在任何自动的以及外力助动的开启功能，因此能应用在汽车或多用途运载车的车盖和车门，转椅，或工业系

统等。除创新型优质高端产品外，斯泰必鲁斯还提供以客户为导向的高效解决方案。我们可以以标准产品为基础，然后根据客户的要求和愿望进行定制，我们也可以为客户开发新的产品。我们持续改善，优化，提高。作为斯泰必鲁斯的客户，您可获得最高质量和最佳表现的服务和个性化咨询。在流

程设计时，我们始终以客户满意度作为最重要的基准。

您的满意是我们的目标。



Quality and environment

We stand behind the quality of our products, which we ensure through continuous improvement processes and by developing and systematically monitoring our production processes. An important success factor for Stabilus: All major production technologies and machines in the plants worldwide are Stabilus' own design; they are developed and built in Koblenz. Combined with highly qualified and committed employees, we can guarantee consistently high product quality. Of course we meet the high requirements of international standards, such as DIN EN ISO 9001:2000, ISO/TS 16949:2002.

The highest quality that you can rely on!

Our environment matters: Stabilus assumes responsibility – not just for quality, technology and customer service. Our company complies with environmental conditions and regulations and uses proactive, gentle processes to save natural resources. Sustainability is an important part of our company philosophy. The success of our environmental protection measures is documented by our certification according to DIN EN ISO 14001:2004 and validation according to the EC Eco-Audit Regulations (EMAS).

Our technologies of today will protect the world of tomorrow.



质量和环境

我们以产品质量为后盾，并通过持续改进及开发和系统监控生产流程保证质量。斯泰必鲁斯的一个重要成功因素：世界各地工厂的所有关键生产技术和机器都是斯泰必鲁斯自己设计的；并在科布伦茨进行开发和制造。加上拥有高素质和忠诚的员工，我们可以始终保证高产品质量。当然，我们符合国际标准的高要求，比如DIN EN ISO 9001:2000、ISO/TS 16949:2002。

您可依靠的最高质量！

我们的环境保护：斯泰必鲁斯不只对质量、科技和客户服务负责。我们遵守环境条件和法规，并采用主动和柔性工艺以节约自然资源。持续性是我们公司理念的一个重要部分。

我们根据DIN EN 14001:2004认证环境保护措施成功的记录，并根据EC Eco—审计法规（EMAS）进行验证。

我们今天的科技将保护明天的世界。





Gas springs and dampers – a multitude of uses

Successfully used in the vehicle and furniture industries for decades, our gas springs and hydraulic dampers are now an essential design element in numerous industrial applications in a wide range of industries. Their compact design, high level of functional convenience and operational safety will support a vast range of new applications for Stabilus products.

conveniently open engine hoods, cab doors and hatches and safely hold them in place. In busses and airplanes, they provide ease of opening and damped closing in luggage compartments. Passenger seat backrests can be adjusted easily and comfortably. In agricultural machinery, they dampen jolts from uneven driving surfaces, allowing for comfortable, relaxed and ergonomic seating.

Stabilus technology gives comfort!



Gas springs and dampers assist in adjusting table and chair height, opening horizontal kitchen cabinet doors or lifting bedframes and head boards. They are used in hospital beds, operating tables, massage tables and in the rehab sector. Or they make opening skylights and operating awnings easier. Thanks to gas springs and dampers, flaps, hoods and lids are easier to open and adjust. They are also used to

气弹簧和阻尼器——众多用途



我们的气弹簧和液压阻尼器已成功用于车辆和家具业数十年，并且如今已成为各行业许多工业应用中的主要设计元素。其紧凑设计、高度功能方便性及操作安全将支撑斯泰必鲁斯产品的大量新应用。

气弹簧和阻尼器有助于调节桌椅高度，打开水平橱柜门或升高床架和护顶板，用于医院病床、手术台、按摩台和康复行业。或者使得打开天窗和操作遮阳篷更为容易。有了气弹簧和阻尼器，翻板、罩盖和行李箱盖更容易打开和调节。气弹簧和阻尼器也用于方便地打开发动机罩、驾驶室门和舱口，以

及将它们安全固定在位。在公共汽车和飞机上，气弹簧和阻尼器使得行李舱更容易打开，并防止其关闭。乘客座椅靠背可以方便和舒适地进行调节。在农业机械中，可防止不平的工作面发生震动，使得乘坐舒适、放松并符合人体工程学。

斯泰必鲁斯科技创造舒适！



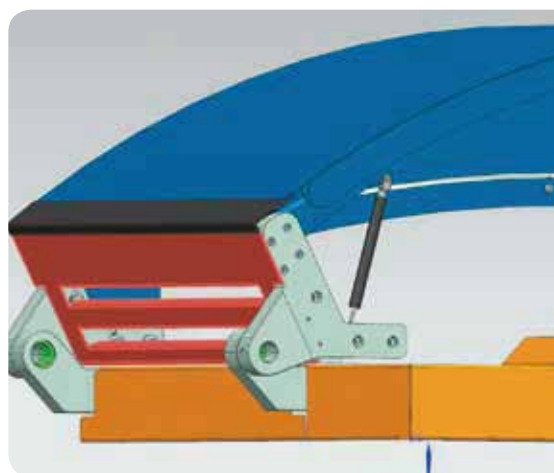
Service includes application consulting

Each installation situation has its specific requirements. Providing individual solutions for your task is what drives us. We offer service, meaning extensive application consulting, including installation proposal and construction of samples. System and standards are defined in a dialog with our customer. From the initial idea to series maturity of the optimum individual solution, the expertise of our team of engineers, specialists, and experienced application consultants will be at your fingertips.

Put us to the test! We will grow with your demands.

Visit our website, where you can use the CAD-Configurator to download your individual gas spring from our standard product line as a 3D model or 2D drawing into your CAD system:

Stabilus.cadclick.com



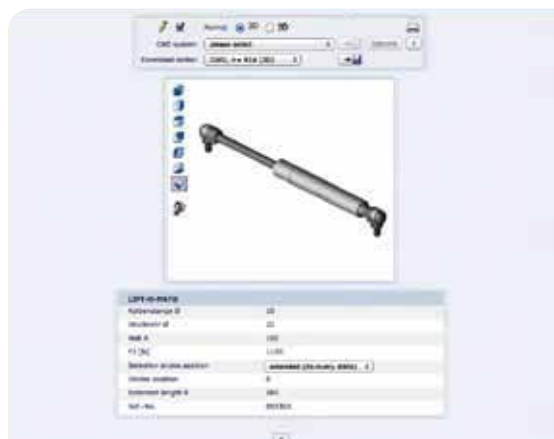
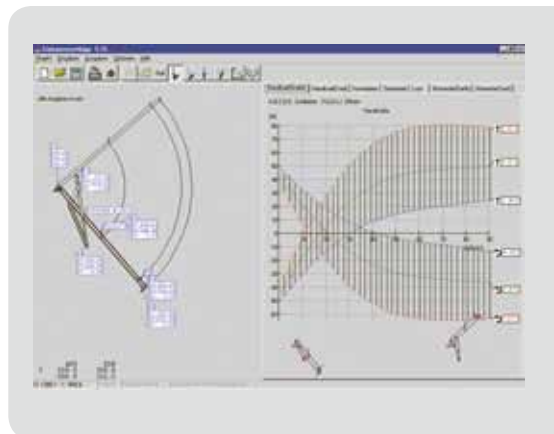
我们的服务包括应用咨询

每种安装情况有其特定要求。为您的任务提供单个解决方案是我们的驱动力。我们提供服务，即广泛的应用咨询，包括安装建议和样本构造。在与客户的对话中确定系统和标准。从最初设想到一系列成熟的最佳个人解决方案，我们工程师、专家和经验丰富的应用咨询师团队的专门技术对您来说触手可及。

您的检验，会使我们因您的需求而成长。

访问我们的网站，您可以使用CAD配置器从我们的标准产品线下载个性化的气弹簧进入您的CAD系统，作为3D模型或者2D图纸。

Stabilus.cadclick.com



Broad standard product line

Our gas springs and dampers have become a staple in our comfort-oriented world. They provide safety in function and use. Any product properties that the user experiences as especially pleasant will increase value perception. Gas springs and dampers from Stabilus assist with lifting and lowering, opening and

closing. They provide force assist and weight compensation, but are also used for damping and locking. Our comprehensive standard product line will take your individual solution to series production, as it will save elaborate development time for many applications. It includes a wide variety of gas springs and

dampers with different dimensions, speed curves, and push-out variants. Stabilus also offers a broad range of fittings – from metal ball studs to metal joints, which are very quick and easy to install.

Do you want to move something, too? Talk to us!

多元的标准产品线

我们的气弹簧和阻尼器已成为以舒适为导向的世界中的主要产品，具有功能安全性和使用安全性。让使用者感觉到特别愉快的任何产品特性将提升价值认知度。斯泰必鲁斯的气弹簧和阻尼器有助于物体举升和降下，打开和关闭。它们提供辅助力和重量补偿，

但也可用于阻尼和锁止。我们全面的标准产品线将使您的个性化解方案用于系列生产，从而节省许多新应用的开发时间。我们的产品具有多样的尺寸、速度曲线，和弹伸方式。斯泰必鲁斯还提供广泛的配件选择——包括金属球头螺栓和金属接头，安装

起来非常快捷容易。

您也想移动什么吗？告诉我们即可！



Gas spring characteristics

■ How gas springs work

A gas spring is a hydropneumatic adjustment element consisting of a pressure cylinder, piston rod with piston, as well as suitable end fittings. It is filled with compressed nitrogen, which – at the same pressure – acts on different-size piston cross sections, creating a force in the extension direction.

This extension force can be accurately defined within physical limits by selecting the right fill pressure.

■ Spring characteristic curve and F_1 force

The spring characteristic curve describes the force curve over the stroke, i.e., from the extended to the compressed state or vice-

versa. Gas springs have a very flat, almost linear characteristic curve, allowing for even, smooth adjustment or swivel motion. In addition to its dimensions, the F_1 force is the most important descriptive characteristic when choosing a gas spring. It defines the spring force value and is measured 5 mm before the extension motion ends in hydraulic damping and 10 mm in dynamic damped gas springs.

■ Extension speed and damping

A major advantage of a gas spring over a mechanical spring is the definable extension speed, allowing for a damped and convenient adjustment motion. In **hydraulic damping**, the extension speed depends on the arrangement and di-

ameter 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 will move first through the gas-filled, then the oil-filled part of the pressure cylinder when extending. As soon as the piston enters the oil, the piston rod will move at a much slower speed.

Dynamic damped gas springs

have a longitudinal groove in the pressure cylinder wall instead of a bore in the piston, acting as a bypass. The groove geometry and length will determine the damping curve. This technology allows for orientation-independent gas spring damping.

气弹簧的特性

■ 气弹簧如何工作

气弹簧是一种液压气动调节元件，由压力管，带活塞的活塞杆及合适的接头组成。其内部充有压缩氮气，在相同压力下，压缩氮气作用于截面尺寸不同的活塞上，从而在弹伸方向上产生弹伸力。此弹伸力可通过调整填充压力来精确控制。

■ 弹簧特性曲线和 F_1 力值

弹簧特性曲线描述了整个行程中的力值曲线，也就是说，从弹伸状态到压缩状态，反之亦然。气弹簧的特性曲线非常平坦，几乎为线性，从而能实现均匀流畅的调整或回转运动。在选

择气弹簧时，除尺寸外， F_1 力值是最重要的描述性特性。其确定了弹簧力值，它是在液压阻尼气弹簧的弹伸运动结束前 5 mm 处，或是在动态阻尼气弹簧的弹伸运动结束前 10 mm 处测量。

■ 弹伸速度和阻尼

气弹簧相对于机械弹簧的一个显著优势是具有可定义的弹伸速度，从而可以实现便捷的运动调整和阻尼效果。对于**液压阻尼气弹簧**，其弹伸速度取决于活塞内部流路的布局和孔径的大小以及所用油的粘度。如果气弹簧活塞杆朝下安装，弹伸时活塞首先通过压

力管内充填气的区域，然后再通过压力管内充填油的区域。一旦活塞进入充填油的区域，活塞杆的运动就会以更慢的速度移动。

动态阻尼气弹簧：其活塞小孔被压力管壁上一条长沟槽取代，成为一条旁路。沟槽的几何形状和长度决定了其阻尼效果曲线，这种技术在任何位置可以产生气弹簧阻尼。

LIFT-O-MAT gas springs

LIFT-O-MAT gas springs are non-locking gas springs. They are used whenever components must be brought conveniently into a defined end position. A LIFT-O-MAT can control the extension force and damping action depending on the function, ensuring user-friendly motion sequences.

Areas of application are doors and flaps in mechanical engineering and process technology, the automotive sector, medical technology, the furniture industry and many other applications.

Advantages and properties:

- Optimized weight compensation during lifting, lowering, opening, and closing actions
- Broad range of sizes and force variants available as standard products

- Dynamic and hydraulic damping available
- Flat spring characteristic curve; i.e., low force increase, even with high forces and large strokes
- Choice of linear, progressive, or decreasing spring characteristic curves
- Compact form factor for installation in small spaces
- Large variety of end fittings for efficient assembly
- Dampened adjustment motion over defined ranges or continuously
- Extension speed control possible
- Additional functions, such as electric switches, STOP function, holding in place, etc. can be integrated

LIFT-O-MAT气弹簧

LIFT-O-MAT气弹簧属于自由式气弹簧，它们可使用在需要将物料件方便的放置到规定位置的任何场合。

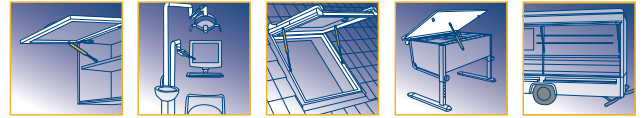
LIFT-O-MAT气弹簧可根据功能需要来控制弹伸力和阻尼效果，从而确保操作更人性化。

优点和性能

- 优化举升，降下，打开，和关闭过程中的重量补偿
- 作为标准产品，拥有多样的尺寸选择和力值范围
- 可根据应用选择液压阻尼和动态阻尼

- 弹簧特性曲线平坦，也就是说，即使在高力值和大行程的情况下，其力值也增加缓慢
- 可选择线性，渐进式，或递减式弹簧特性曲线
- 安装空间狭小时，可选择紧凑型的规格
- 丰富的接头选择可促进高效装配
- 可在规定范围内进行阻尼调整，也可持续进行
- 弹伸速度可控
- 其他功能，如电子开关，停止功能，固定在位等，这些功能也可综合运用。





LIFT-O-MAT specialty types

1 LIFT-O-MAT FR – for infinitely variable holding in place

The LIFT-O-MAT FR is a gas spring featuring a special piston package with an integrated friction element, which – in addition to force assist – allows infinitely variable holding over the entire adjustment range. Even weight fluctuations between defined limits, for example due to varying loads, can be offset.

2 HYDRO-LIFT

The HYDRO-LIFT features a valve in its piston, which, in addition to user-optimized force assist, allows infinitely variable positioning. Depending on the design of the HYDRO-LIFT, the hold function can be active across the entire adjustment range or in one or more partial sectors of the application.

3 INTER-STOP with holding range

The INTER-STOP gas spring combines the properties of the LIFT-O-MAT with dynamic damping and the holding force working in the extension direction. The stroke can be divided into two or more function areas. For example, one function area might perform the stopping or hold the application load in any position, until a manual force is applied, for example by hand.

4 LIFT-O-MAT – with end position locking

In addition to force support, the LIFT-O-MAT gas spring with end position locking also provides a safe mechanical lock for the application in the extended position. Generally, two variations are available: Gas springs with the lock on the outside or gas springs with the lock on the inside.

5 LIFT-O-MAT – with decreasing or progressive spring characteristic curve

LIFT-O-MAT gas springs with additional coil springs will cause very high or very low spring forces in the end positions, depending on installation orientation. Depending on the application or requirement, rubber cushions or coil springs are used to achieve a very gentle end stop, adding to the gas spring effect. The coil spring length and force can be optimized for the application.

LIFT-O-MAT 特别产品类型

1 LIFT-O-MAT FR–任意停

LIFT-O-MAT FR是一种配有集成摩擦元件和特殊活塞组件的气弹簧，除提供支撑助力外，可在整个调整范围内实现任意位置停止。其在规定的范围内重量波动均匀，例如，其载荷的波动可被抵消。

2 HYDRO-LIFT

HYDRO-LIFT气弹簧的特质是其活塞带有阀门，除提供优化使用者的辅助力外，还可实现任意停功能。根据HYDRO-LIFT的设计，其停止功能可以在整个调整范围内，或在一个和或者多个部分区域内实行应用。

3 INTER-STOP：开启时可全程或者部分行程任意停

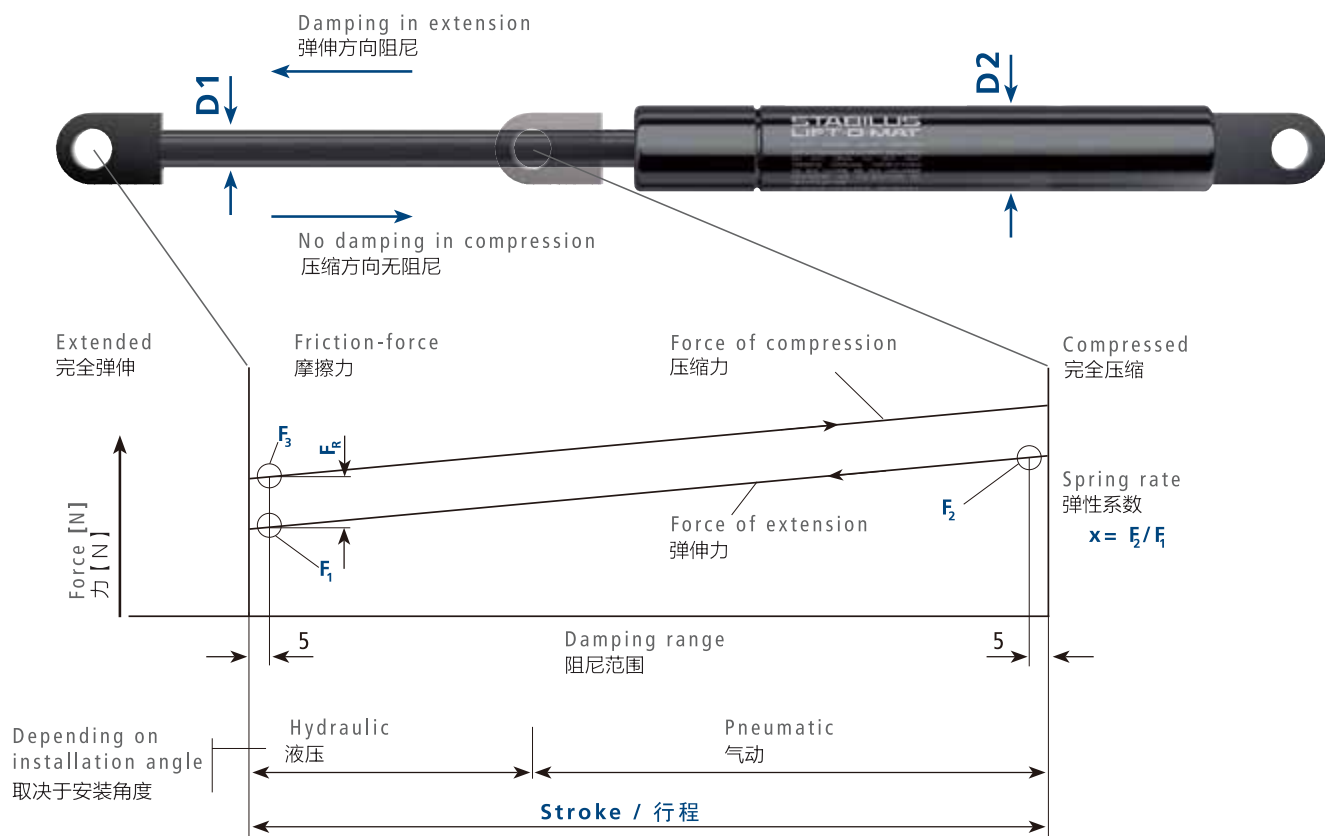
INTER-STOP气弹簧结合了LIFT-O-MAT动态阻尼气弹簧的特性和弹伸方向的夹持力。整个行程可以分为2个或者多个功能区。例如，一个功能区可执行停止功能或者将应用载荷固定在任何位置直至施加了手动力。

4 末端位锁止功能的LIFT-O-MAT

除了提供支撑力外，具末端位锁止功能的LIFT-O-MAT可在行程末端提供安全的机械锁止功能。通常有两种机械锁止方式：外锁止气弹簧和内锁止气弹簧。

5 具有递减或渐进式弹簧曲线的LIFT-O-MAT

这种LIFT-O-MAT气弹簧带有附加螺旋弹簧，按安装方向的不同会在末端位置产生非常高或者非常低的弹簧力。根据应用和要求，橡胶垫或者螺旋弹簧可用于实现非常轻柔的末端停止，从而增加气弹簧的功效。在此种应用中，螺旋弹簧的长度和力值可进行优化。

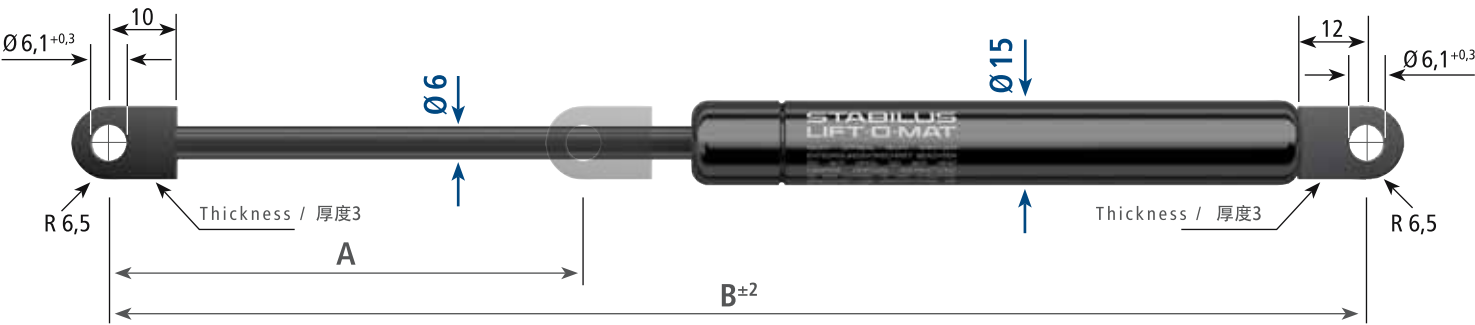


D1 [mm]	D2 [mm]	Force of extension 弹伸力 F ₁ [N]	Stroke 最大行程 [mm]	x (≈)	F _R max. [N]
6	15	50 - 400	150	1,30	50
8	19	100 - 800	250	1,35	60
10	22	150 - 1150	400	1,40	80
14	28	500 - 2100	500	1,50	80
20	42	2400 - 5200	500	1,45	150

Installation instruction
安装规范
STAB-Spec. 1000 5593

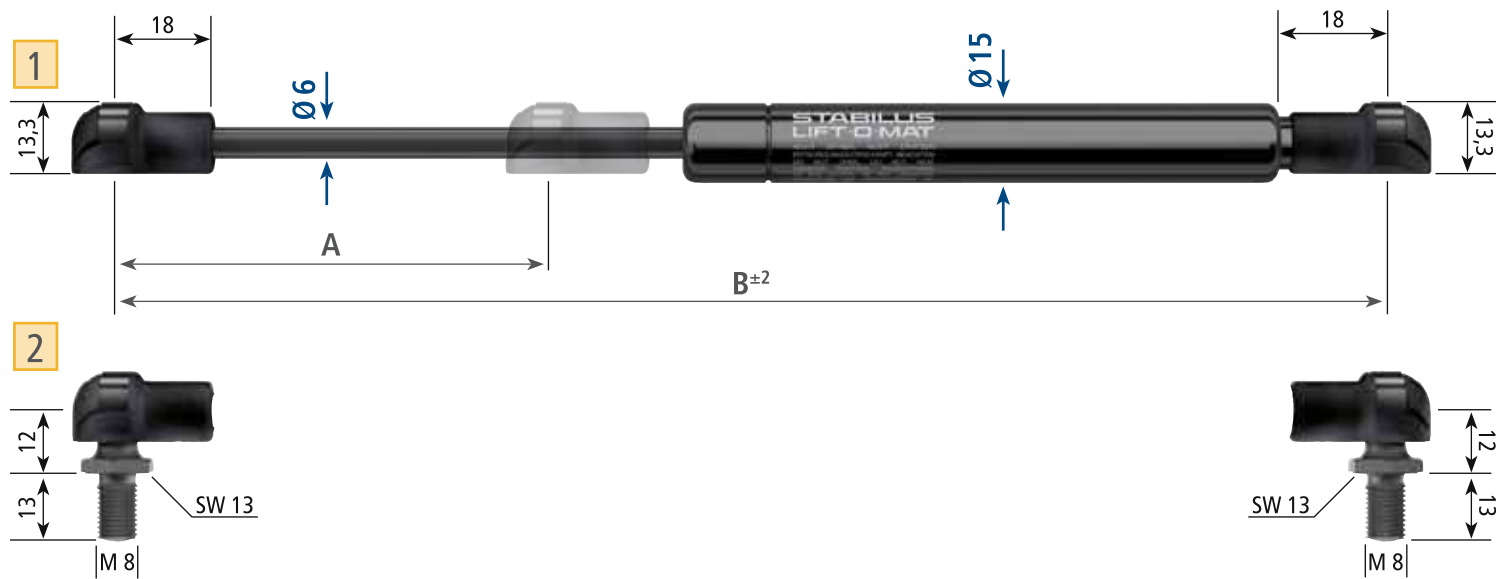
Statically measured forces
力值测量规范
STAB-Spec. 1000 9033

Disposal instruction
气弹簧废弃规范
STAB-Spec. 1000 9375
www.Stabilus.com/service-spare-parts/recycling/



A	B		
Stroke 行程	Extended length 弹伸长度	Force 力值 F_1 [N]	Ref.-No. 零件号
20	106,5	50	192910
		100	192929
		150	192937
		200	192945
		250	192953
		300	192961
		350	192988
		400	192996
40	145,5	50	185175
		100	191752
		150	192805
		200	192813
		250	192821
		300	082309
		350	082317
		400	094307
60	185,5	50	192848
		100	192856
		150	192864
		200	192872
		250	192880
		300	082384
		350	082392
		400	094315
80	226,5	50	082406
		100	082414
		150	082422
		200	082430
		250	082449
		300	082457
		350	082465
		400	094323

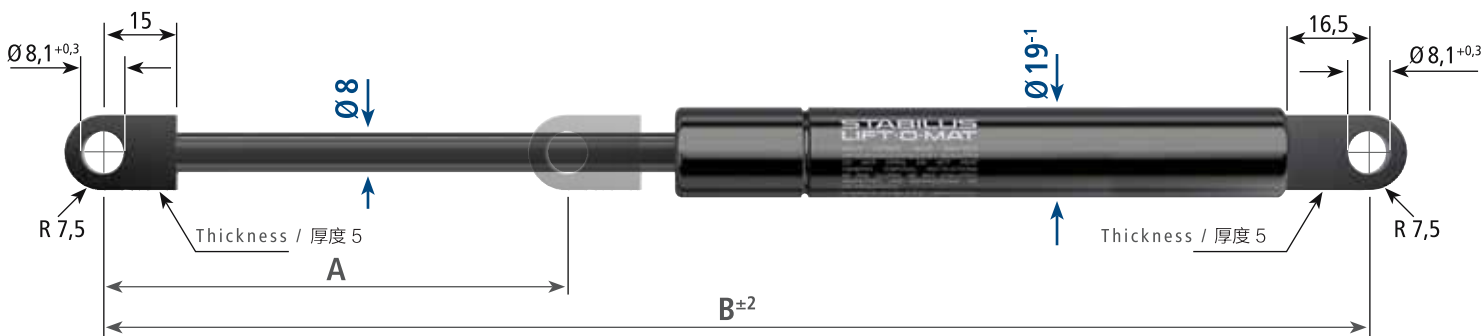
A	B		
Stroke 行程	Extended length 弹伸长度	Force 力值 F_1 [N]	Ref.-No. 零件号
100	265,5	50	082473
		100	082481
		150	082503
		200	082511
		250	082538
		300	082546
		350	082554
		400	094331
120	305,5	50	082562
		100	082570
		150	082589
		200	082597
		250	082600
		300	082627
		350	082635
		400	094358
150	365,5	50	082643
		100	082651
		150	082678
		200	082686
		250	082694
		300	082708
		350	082716
		400	6756RS



Suitable for ball studs according to DIN 71803 Ø 10
适用于符合DIN 71803 φ10的球头标准

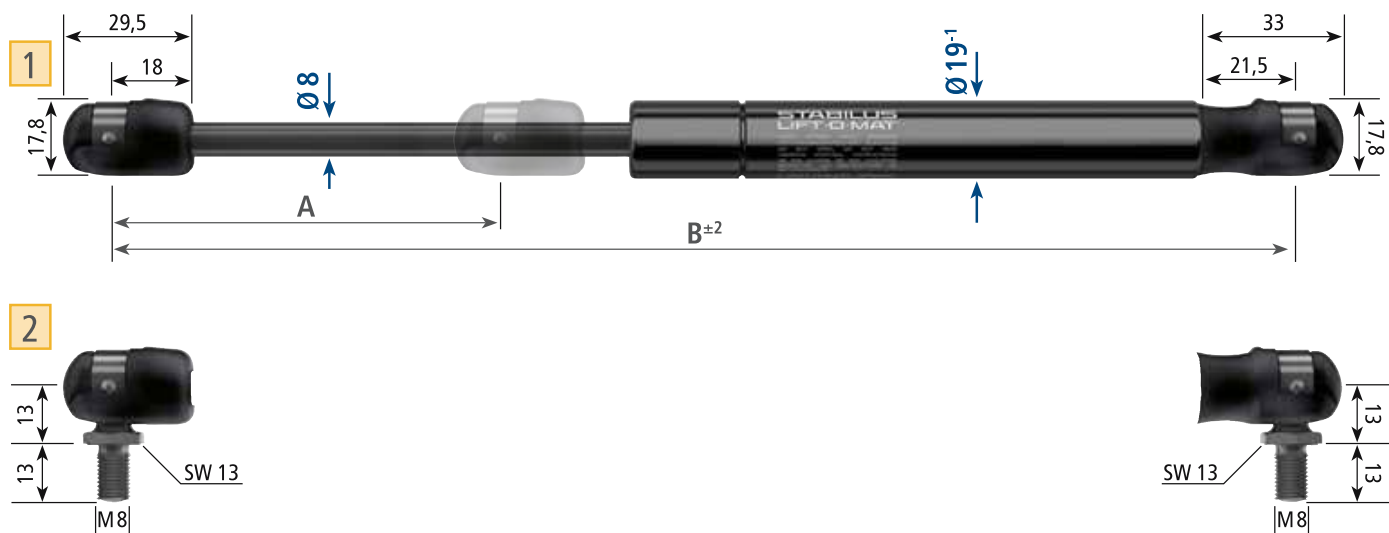
A	B			
Stroke 行程	Extended length 弹伸长度	Force / 力值 F _i [N]	1 Ref.-No. 零件号	2 Ref.-No. 零件号
20	115,5	50	4727PB	4829DF
		100	4728PX	4832DH
		150	4729PS	4834DY
		200	4731PZ	1324DI
		250	4732PU	4836DO
		300	4733PP	4838DE
		350	4734PK	4842DB
		400	4735PF	4844DS
40	155,5	50	2606NW	4846DI
		100	2607NR	4848DZ
		150	2608NM	4851DA
		200	2609NH	1338DJ
		250	2611NO	4853DR
		300	2612NJ	4855DH
		350	2613NE	4857DY
		400	2615NV	4859DO
60	195,5	50	6444IK	4862DQ
		100	6488IU	4534DS
		150	6489IP	4904DI
		200	6491IW	1345DS
		250	6492IR	4906DZ
		300	6493IM	4908DP
		350	6494IH	4911DR
		400	6495IC	4913DH
80	235,5	50	6449IM	4915DY
		100	6501IP	4917DO
		150	6502IK	4919DE
		200	6503IF	1395DP
		250	6504IA	4922DG
		300	6505IW	4924DX
		350	6506IR	4926DN
		400	6507IM	4928DD

A	B			
Stroke 行程	Extended length 弹伸长度	Force / 力值 F _i [N]	1 Ref.-No. 零件号	2 Ref.-No. 零件号
100	275,5	50	6458IL	4931DF
		100	6508IH	4933DW
		150	6509IC	4935DM
		200	6511IJ	1406DD
		250	6514IV	5004DJ
		300	6515IQ	5007DV
		350	6516IL	5009DL
		400	6517IG	5012DN
120	315,5	50	6462II	5025DT
		100	6519IX	5027DJ
		150	6521ID	5031DG
		200	6522IZ	1515DW
		250	6523IU	5033DX
		300	6524IP	5035DN
		350	6525IK	5037DD
		400	6526IF	5069DC
150	375,5	50	6467IK	5072DE
		100	6539IL	5075DQ
		150	6541IS	5077DG
		200	6542IN	1562DH
		250	6543II	5079DX
		300	6544ID	5082DZ
		350	6545IZ	5084DP
		400	6153PC	1205RU



A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F _i [N]	Ref.-No. 零件号
60	205	500	084018
		600	084026
	205,5	700	084034
		800	094684
80	245	500	084093
		600	084107
	245,5	700	084115
		800	094692
100	285	500	084174
		600	084182
	285,5	700	084190
		800	094706
120	325	500	084247
		600	094714
	325,5	700	084263
		800	094722
140	365	400	084352
		500	084360
	365,5	600	084379
		700	084387
160	405	800	094749
		100	084395
		150	094765
		200	084409
		250	094773
		300	084417
		350	094781
		400	084425
	405,5	500	084476
		600	084484
		700	084492
		800	094757
180	445	100	084506
		150	094803
		200	084514
		250	094811
		300	084522
		350	094838
		400	086363
		500	084549
	445,5	600	084557
		700	084565
		800	094846

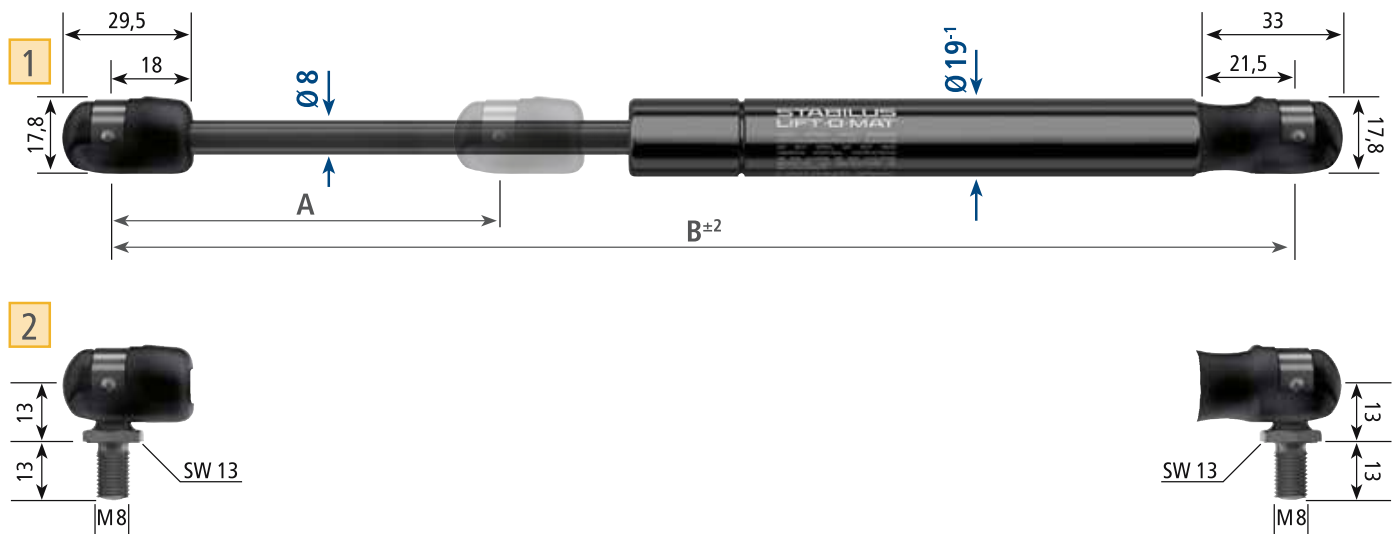
A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F _i [N]	Ref.-No. 零件号
200	485	100	084573
		150	094854
		200	084581
		250	094862
		300	084603
		350	094870
		400	084611
		500	084638
	485,5	600	084646
		700	084654
220	525	800	094889
		100	084662
		150	094897
		200	084670
		250	094900
		300	084689
		350	094919
		400	084697
	525,5	500	084700
		600	084719
		700	084727
		800	094927
250	585	100	084735
		150	094935
		200	084743
		250	094943
		300	084751
		350	094951
		400	084778
		500	084786
	585,5	600	084794
		700	084808
		800	094978



Suitable for ball studs according to DIN 71803 Ø10
适用于符合DIN 71803 ϕ 10的球头标准

A	B			
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	1 Ref.-No. 零件号	2 Ref.-No. 零件号
60	205	500	2616NQ	094471
		600	2617NL	083240
		700	2618NG	083259
		800	2619NB	094412
80	245	100	752614	447609
		150	752622	466441
		200	1417EP	381926
		250	752630	287806
		300	1418EK	368237
		350	1419EF	550817
		400	752649	278076
		500	752657	083305
		600	752665	083313
		700	2622ND	083321
		800	2623NZ	094420
100	285	100	752673	321400
		150	752681	0927SH
		200	1421EM	315826
		250	752703	150344
		300	1422EH	632600
		350	1423EC	462047
		400	752711	709492
		500	752738	083380
		600	752746	083399
		700	2624NU	083402
		800	2625NP	094439

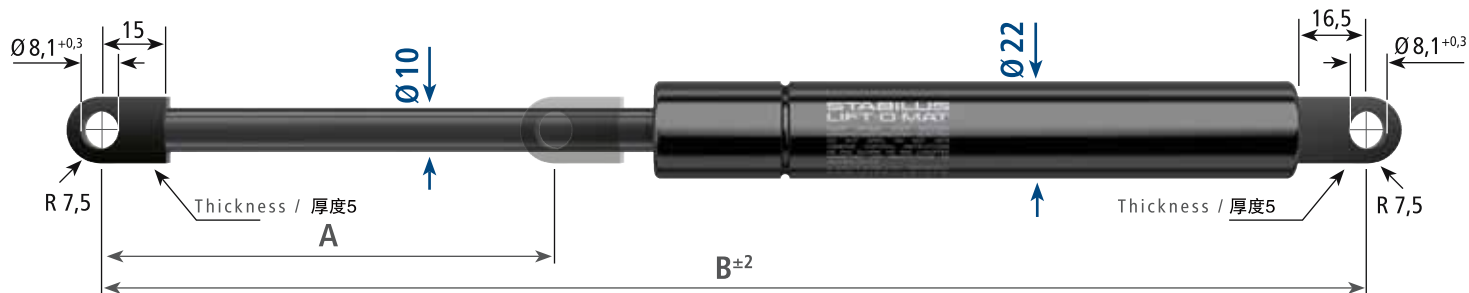
A	B			
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	1 Ref.-No. 零件号	2 Ref.-No. 零件号
120	325	100	752754	253308
		150	752762	265802
		200	1424EY	3008AM
		250	752770	244880
		300	1425ET	377007
		350	1426EO	510599
		400	752789	684872
		500	752797	094498
		600	752800	083461
		700	2626NK	083488
		800	2627NF	094447
140	365	100	711506	177032
		150	711745	287814
		200	031970	630896
		250	033973	253723
		300	2819WF	3579UR
		350	711984	152495
		400	2628NA	083534
		500	2629NW	083542
		600	2631NC	083550
		700	2632NY	083569
		800	2633NT	094455



Suitable for ball studs according to DIN 71803 Ø10
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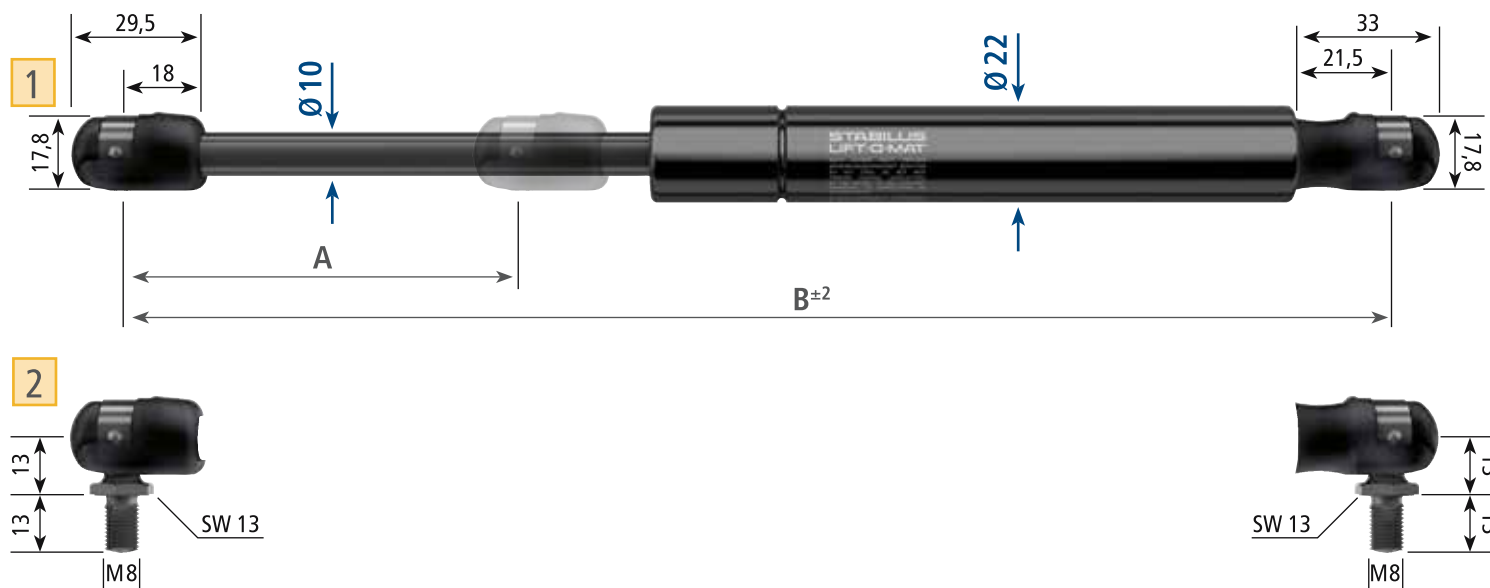
A	B			
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	1 Ref.-No. 零件号	2 Ref.-No. 零件号
160	405	100	752819	083577
		150	752827	095621
		200	1427EJ	083585
		250	752835	095648
		300	1428EE	083593
		350	1431EG	095656
		400	752843	083607
		500	752851	083615
		600	752878	083623
180	445	700	2634NO	083631
		800	2635NJ	094463
		100	2636NE	083658
		150	2638NV	094501
		200	2639NQ	083666
		250	2641NX	094528
		300	2642NS	083674
		350	2643NN	094536
		400	2644NI	083682
200	485	500	2645ND	083690
		600	2646NZ	083704
		700	2647NU	083712
		800	2648NP	094544
		100	752886	083720
		150	752894	094552
		200	1432EB	083739
		250	752908	094560

A	B			
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	1 Ref.-No. 零件号	2 Ref.-No. 零件号
200	485	300	1433EX	083747
		350	1434ES	094579
		400	752916	083755
		500	752924	083763
		600	752932	083771
		700	2649NK	083798
		800	2651NR	094587
220	525	100	2652NM	083801
		150	2653NH	094595
		200	2654NC	083828
		250	2655NY	094609
		300	2656NT	083836
		350	2657NO	094617
		400	2658NJ	083844
		500	2659NE	083852
250	585	600	2661NL	083860
		700	2662NG	083879
		800	2663NB	094625
		100	752940	083887
		150	752959	094633
		200	1435EN	083895
		250	752967	094641
		300	1436EI	083909
		350	1437ED	094668
		400	752975	083917
		500	752983	083925
		600	752991	083933
		700	2664NX	083941
		800	2665NS	094676



A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F_1 [N]	Ref.-No. 零件号
96	285	900	084832
		1000	084840
		1150	094986
145	385	900	084875
		1000	084883
		1150	094994
196	485	900	084913
		1000	084921
		1150	095001
246	585	900	084964
		1000	084972
		1150	095028
296	685	150	095036
		200	095044
		250	095052
		300	095060
		350	095079
		400	095087
		500	095095
		600	095109
		700	084980
		800	084999
		900	085014
		1000	085022
		1150	097306

A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F_1 [N]	Ref.-No. 零件号
346	785	150	095117
		200	095125
		250	095133
		300	095141
		350	095176
		400	095168
		500	095184
		600	095192
		700	085030
		800	085049
396	885	900	085057
		1000	085065
		150	095214
		200	095222
		250	095230
		300	095249
		350	095257
		400	095265
		500	095273
		600	095281
		700	085073
		800	086401



Suitable for ball studs according to DIN 71803 Ø10
适用于符合DIN 71803 ϕ 10的球头标准

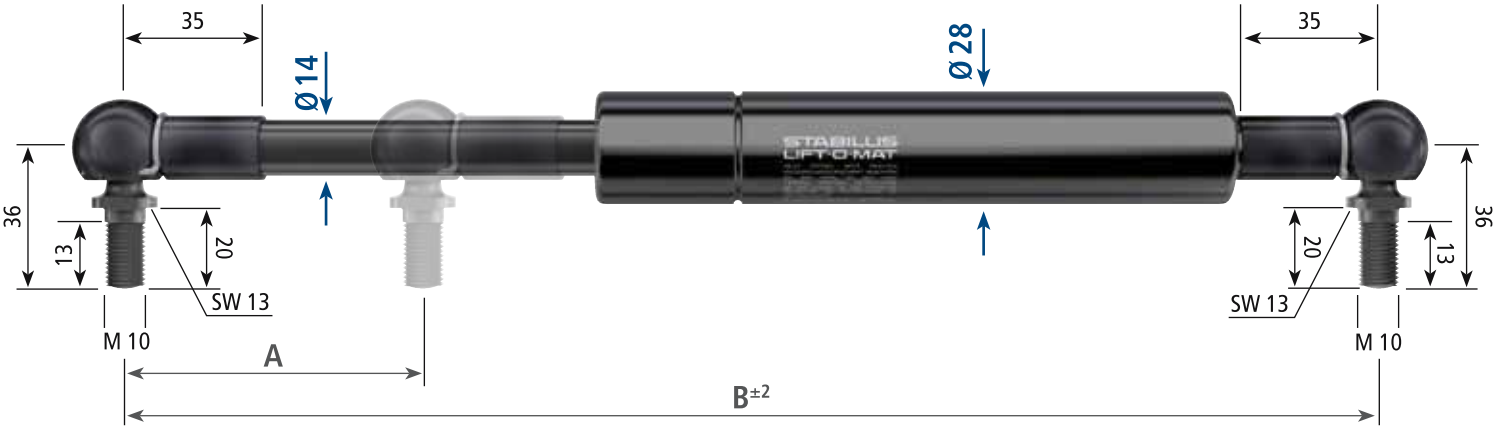
A	B			
Stroke 行程	Extended length 弹伸长度	Force / 力值 F_1 [N]	1 Ref.-No. 零件号	2 Ref.-No. 零件号
100	285	900	2666NN	085146
		1000	2667NI	085154
		1150	2668ND	095303
150	385	900	2669NZ	085189
		1000	2671NF	085197
		1150	2672NA	095311
200	485	700	1442EW	497614
		800	1443ER	232785
		900	1444EM	085227
		1000	1445EH	085235
		1150	2673NW	095338
250	585	700	1446EC	292001
		800	1447EY	303925
		900	1448ET	085278
		1000	1449EO	085286
		1150	2674NR	095346
300	685	150	2675NM	095354
		200	3935LP	095362
		250	1438EZ	095370
		300	2677NC	095389
		350	1652CK	095397
		400	753009	095400
		500	2679NT	095419
		600	2682NV	095427
		700	753017	085294
		800	2683NQ	085308
		900	753025	085316
		1000	753033	085324
		1150	2684NL	095435

A		B			
Stroke 行程	Extended length 弹伸长度	Force / 力值 F _i [N]	1 Ref.-No. 零件号	2 Ref.-No. 零件号	
350	785	150	2685NG	095443	
		200	2686NB	095451	
		250	1439EU	095478	
		300	2687NX	095486	
		350	2688NS	095494	
		400	753041	095508	
		500	2689NN	095516	
		600	2691NU	095524	
		700	753068	085332	
		800	2692NP	085340	
		900	753076	085359	
	1000	753084	085367		
400	885	150	2694NF	095540	
		200	2695NA	095559	
		250	1441EA	095567	
		300	2696NW	095575	
		350	2697NR	095583	
		400	753092	095591	
		500	2698NM	095605	
		600	2699NH	095613	
		700	753106	085375	
	800	2701NN	085383		



A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
100	302	1300	1847LW
		1500	2038LR
		1700	2039LM
		1900	2041LT
		2100	2042LO
150	402	1300	1851LT
		1500	2043LJ
		1700	2044LE
		1900	2046LV
		2100	2047LQ
200	502	1300	1854LE
		1500	2048LL
		1700	2049LG
		1900	2051LN
		2100	2052LI
250	602	1300	1858LL
		1500	2055LU
		1700	2056LP
		1900	2057LK
		2100	2058LF
300	702	1300	1862LI
		1500	2059LA
		1700	2061LH
		1900	2062LC
		2100	2063LY

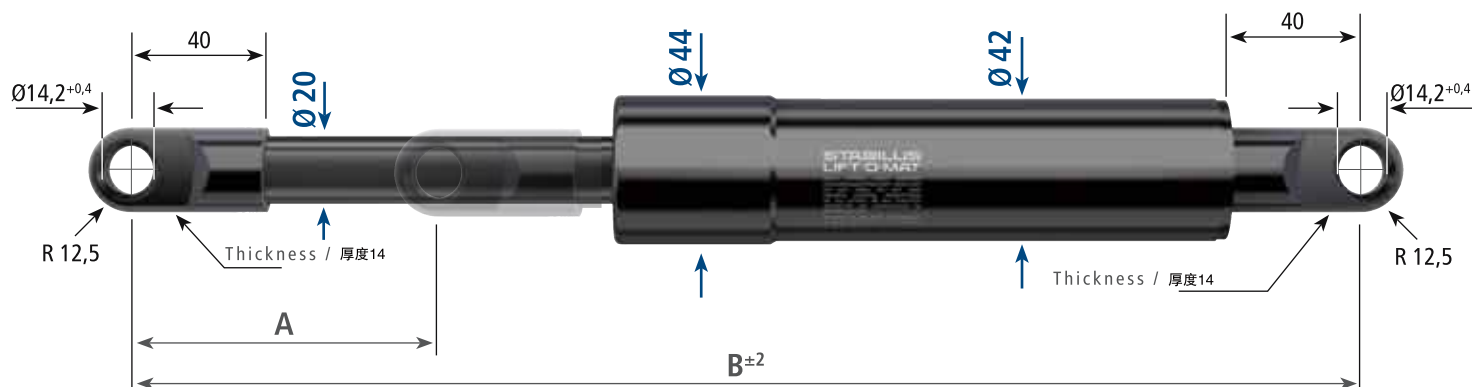
A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
350	802	1300	1865LU
		1500	2064LT
		1700	2065LO
		1900	2066LJ
		2100	2067LE
400	902	1300	1868LF
		1500	2069LV
		1700	2071LB
		1900	2072LX
		2100	2073LS
500	1102	500	1872LC
		600	2108LB
		700	2109LX
		800	2111LD
		900	2112LZ
		1000	2113LU
		1100	2114LP
		1300	2115LK
		1500	2116LF
		1700	2117LA
		1900	2118LW



Suitable for ball studs according to DIN 71803 Ø16
适用于符合DIN 71803 ϕ 10的球头标准

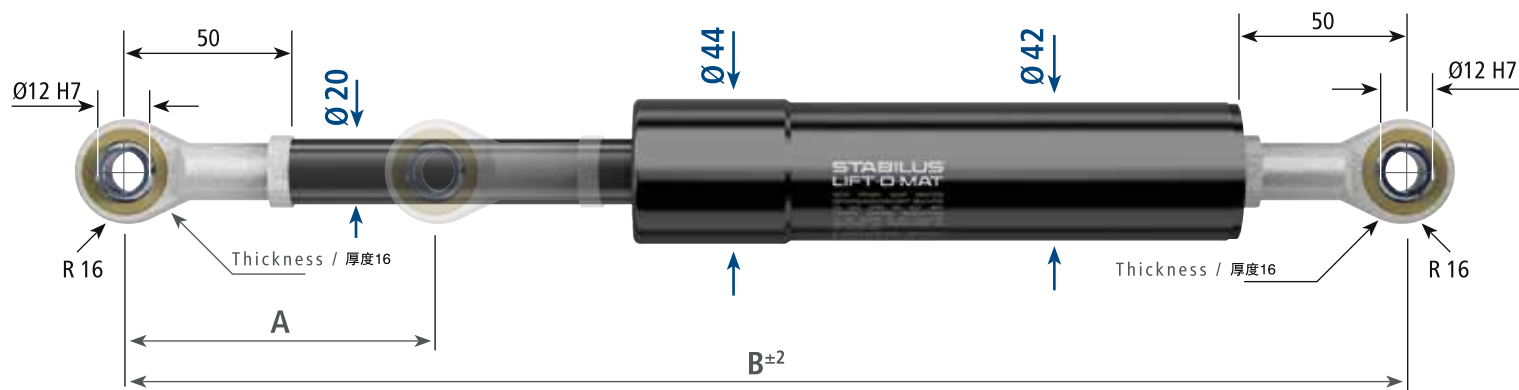
A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
100	335,5	1300	2029LS
		1500	2357LQ
		1700	2358LL
		1900	2359LG
		2100	2361LN
150	435,5	1300	2033LP
		1500	2362LI
		1700	2363LD
		1900	2364LZ
		2100	2365LU
200	535,5	1300	2036LA
		1500	2366LP
		1700	2367LK
		1900	2368LF
		2100	2369LA
250	635,5	1300	2075LI
		1500	2371LH
		1700	2372LC
		1900	2373LY
		2100	2374LT
300	735,5	1300	2078LU
		1500	2375LO
		1700	2376LJ
		1900	2377LE
		2100	2379LV

A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
350	835,5	1300	2082LR
		1500	2381LB
		1700	2382LX
		1900	2383LS
		2100	2384LN
400	935,5	1300	2085LC
		1500	2385LI
		1700	2386LD
		1900	2387LZ
		2100	2388LU
500	1135,5	500	2088LO
		600	2389LP
		700	2391LW
		800	2392LR
		900	2393LM
		1000	2394LH
		1100	2395LC
		1300	2396LY
		1500	2397LT
		1700	2398LO



A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
150	500	2400	095974
		2800	095982
		3200	207519
		3600	207527
		4000	155624
		4600	207535
		5200	207543
200	600	2400	086657
		2800	086665
		3200	207462
		3600	207470
		4000	207489
		4600	207497
		5200	207500
250	700	2400	086738
		2800	086746
		3200	207551
		3600	207578
		4000	207586
		4600	207594
		5200	207608
300	800	2400	086789
		2800	086800
		3200	207616
		3600	207624
		4000	207632
		4600	207640
		5200	207659

A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
350	900	2400	096083
		2800	096091
		3200	207667
		3600	207675
		4000	207683
		4600	207691
		5200	207705
400	1000	2400	086924
		2800	086932
		3200	207713
		3600	207721
		4000	207748
		4600	207756
		5200	207764
500	1200	2400	086983
		2800	086991
		3200	207772
		3600	207780
		4000	207799
		4600	207802
		5200	207810



A		B	
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
150	520	2400	087041
		2800	087068
		3200	207829
		3600	207837
		4000	207845
		4600	207853
		5200	207861
200	620	2400	087114
		2800	087122
		3200	207888
		3600	207896
		4000	207918
		4600	207926
		5200	207934
250	720	2400	087173
		2800	087181
		3200	207942
		3600	207950
		4000	207969
		4600	207977
		5200	207985
300	820	2400	087254
		2800	087262
		3200	207993
		3600	208000
		4000	208019
		4600	208027
		5200	208035

A		B	
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
350	920	2400	087319
		2800	087327
		3200	208043
		3600	208051
		4000	208078
		4600	208086
		5200	208094
400	1020	2400	087386
		2800	087394
		3200	208108
		3600	208116
		4000	208124
		4600	208132
		5200	208140
500	1220	2400	087440
		2800	087459
		3200	208159
		3600	208167
		4000	208175
		4600	208183
		5200	208191



Dynamic extension damping

The LIFT-O-MAT DD with dynamic damping is a gas spring whose damping properties and extension speed is controlled primarily through a longitudinal groove in the pressure cylinder.

By reducing or increasing the groove cross-section, the piston rod's speed can be varied over the entire stroke, allowing it to be customized to the application. The motion can be slowed down smoothly and continuously until it comes to a stop.

It allows implementing different compression and extension characteristics as well as a damped approach of intermediate positions.

The LIFT-O-MAT DD works regardless of its orientation, while approaching any position smoothly, without stressing hinges and joints.

Advantages

- Orientation-independent damping
- Definable speed control
- Great tunability of damping characteristics



Groove
纵向槽

Damping range
阻尼范围

弹伸方向上动态阻尼

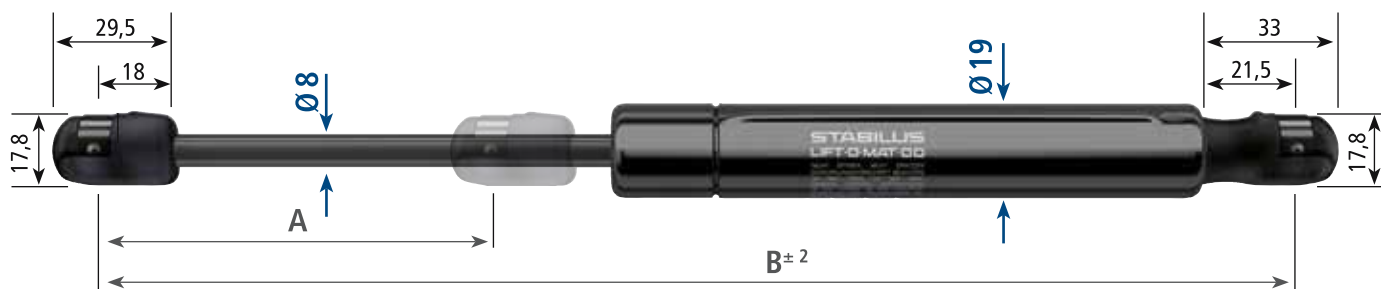
LIFT-O-MAT DD是具有动态阻尼功能的气弹簧。它是通过在压力管管壁开一个槽，这个槽的深度可以控制阻尼效果及弹伸速度。

通过增大或减小槽的截面积，活塞杆的速度可以在整个行程范围内去定制。从而符合客户的订制化要求，弹伸过程可以非常缓慢地减速直至停止。我们还可以实现不同的压缩及弹伸阻尼特性。

LIFT-O-MAT DD的作用不受安装方向的影响，可以平滑地弹伸到任何位置，不会对铰链或接头产生任何冲击。

优点

- 阻尼效果不受安装方向影响
- 可控的弹伸速度
- 阻尼特性丰富多样



Suitable for ball studs according to DIN 71803 Ø10
适用于符合DIN 71803 ϕ 10的球头标准

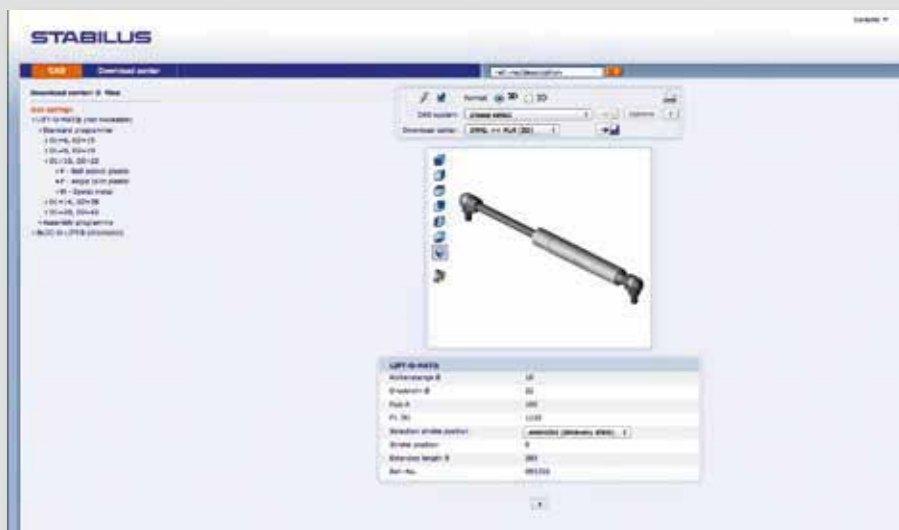
A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F_1 [N]	Ref.-No. 零件号
100	285	100	989233
		150	992579
		200	992818
		250	993057
		300	993296
		350	993535
		400	994013
		500	994252
120	325	600	994491
		100	042794
		150	044467
		200	044706
		250	044945
		300	045184
		350	045423
		400	045662
140	365	500	045901
		600	046379
		100	048530
		150	068367
		200	068606
		250	069084
		300	069323
		350	069562
160	405	400	069801
		500	070040
		600	070279
		100	072191
		150	072908
		200	073864
		250	074103
		300	074342
		350	074581
		400	074820
		500	075059
		600	075298

A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F_1 [N]	Ref.-No. 零件号
180	445	100	081273
		150	081512
		200	081751
		250	083424
		300	083663
		350	083902
		400	084141
		500	084380
200	485	600	084619
		100	085336
		150	094896
		200	095135
		250	095374
		300	095852
		350	096330
		400	096569
220	525	500	096808
		600	097286
		100	101588
		150	101827
		200	102066
		250	102305
		300	102544
		350	102783
250	585	400	103022
		500	103261
		600	103739
		100	105173
		150	105412
		200	105890
		250	106129
		300	106368
		350	106846
		400	107324
		500	107563
		600	108519

We reserve the right to make modifications. Dimensions in mm.
我们保留进行修改的权利。尺寸单位: mm。

Stabilus supplementary line

斯泰必鲁斯组合件生产线



For each of our gas springs and dampers, there are numerous potential variants. Use them to configure the product variant that meets your requirements. Our options are almost endless.

Choose from different strokes, lengths, diameters and different fittings made from metal or plastic (K1 - K7 and D1 - D7). F_1 force can also be selected individually. Optional guard or locking tubes (S1 or S2) are also available.

You can use our online CAD-Configurator to render your 3D model and your 2D drawing.

CAD-Configurator
CAD-配置



Stabilus.cadclick.com

对于我们所有的气弹簧和阻尼器，存在很多潜在的变型。使用它们来配置符合您要求的变型产品。我们的选择几乎是无止境的。

选择不同的行程、长度、直径及金属或塑料（K1-K7和D1-D7）制成的不同配件。 F_1 力值也可单独选择。防护管或锁止管（S1或S2）也可供您选择。

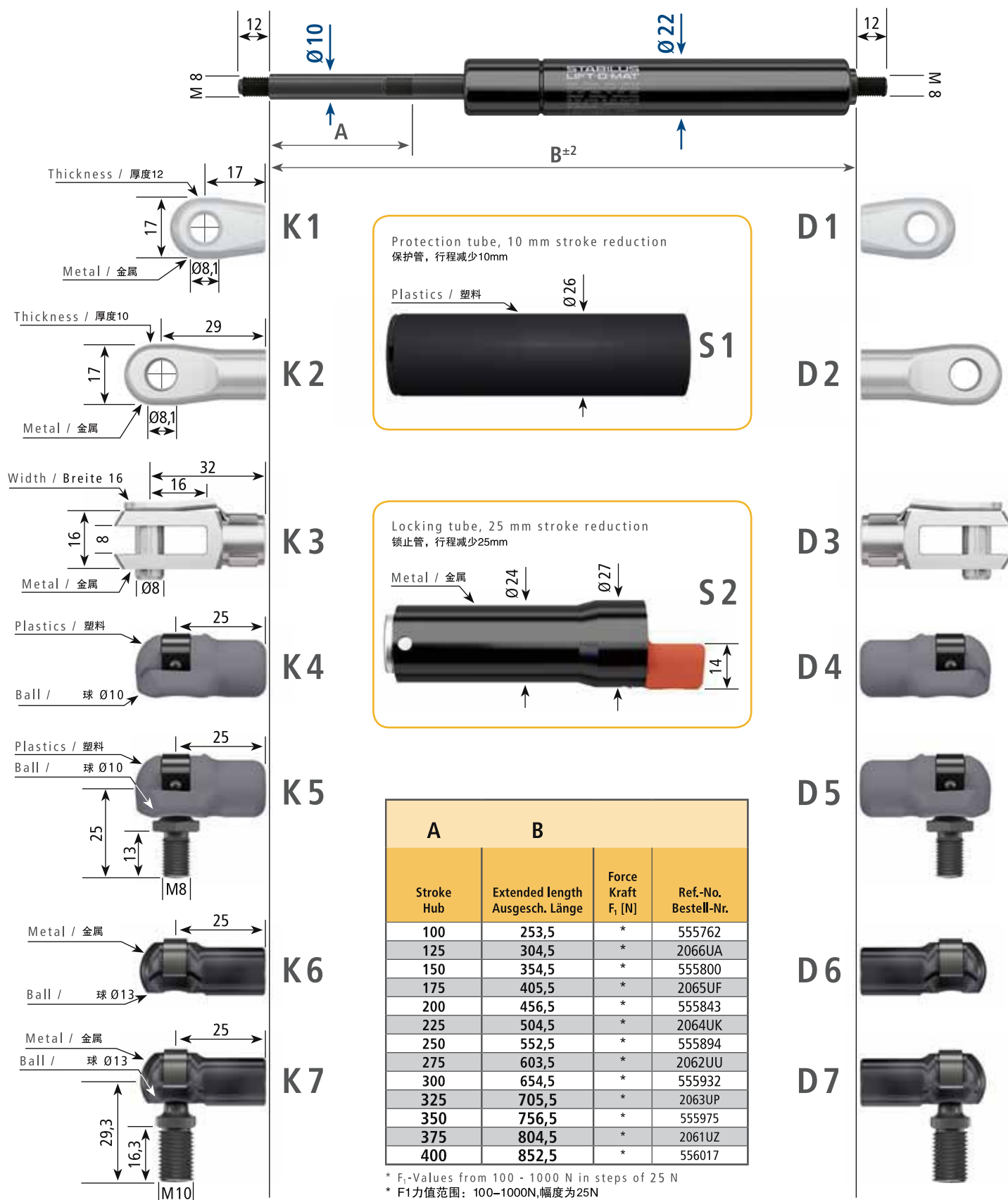
您可以使用我们的在线CAD配置提交3D模型或2D图。





Installation according to STAB-Spec. 10005630 / 参考安装规范 STAB-Spec. 10005630

25

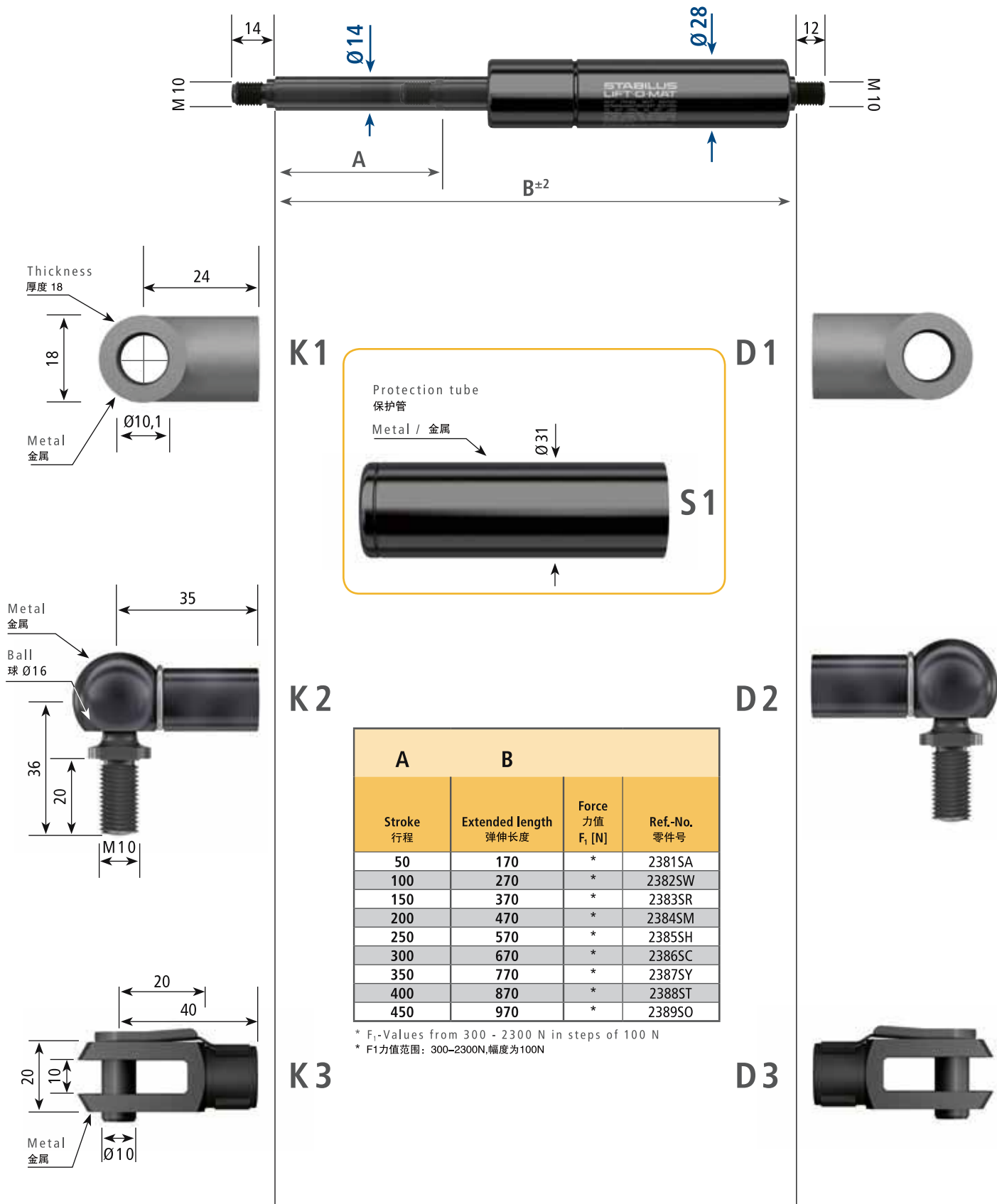


Ordering example / 订购案例

123456	/	0350N	/	K2	/	D1	/	S1
Ref.-No. 零件号		F_1		Piston rod end fitting 活塞杆端配件		Pressure tube end fitting 压力管端配件		Optional tube 选配管

Installation according to STAB-Spec. 10005625 / 参考安装规范 STAB-Spec. 10005625

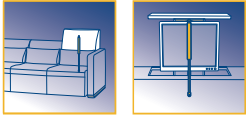
We reserve the right to make modifications. Dimensions in mm.
我们保留进行修改的权利。尺寸单位: mm。



Ordering example / Bestell-Beispiel								
123456	/	0350N	/	K2	/	D1	/	S1
Ref.-No. 零件号		F ₁		Piston rod end fitting 活塞杆端配件		Pressure tube end fitting 压力管端配件		Optional tube 选配管

Installation according to STAB-Spec. 10021385 / 参考安装规范 STAB-Spec. 10021385

We reserve the right to make modifications. Dimensions in mm.
我们保留进行修改的权利。尺寸单位: mm。



Self-locking in compressed position

The LIFT-O-MAT PTL from Stabilus is a hydraulically damped gas spring with an additional mechanical lock in the compressed position.

Similar to the ballpoint pen principle, the lock can be released by a light push on the gas spring; the gas spring will then automatically extend with damping.

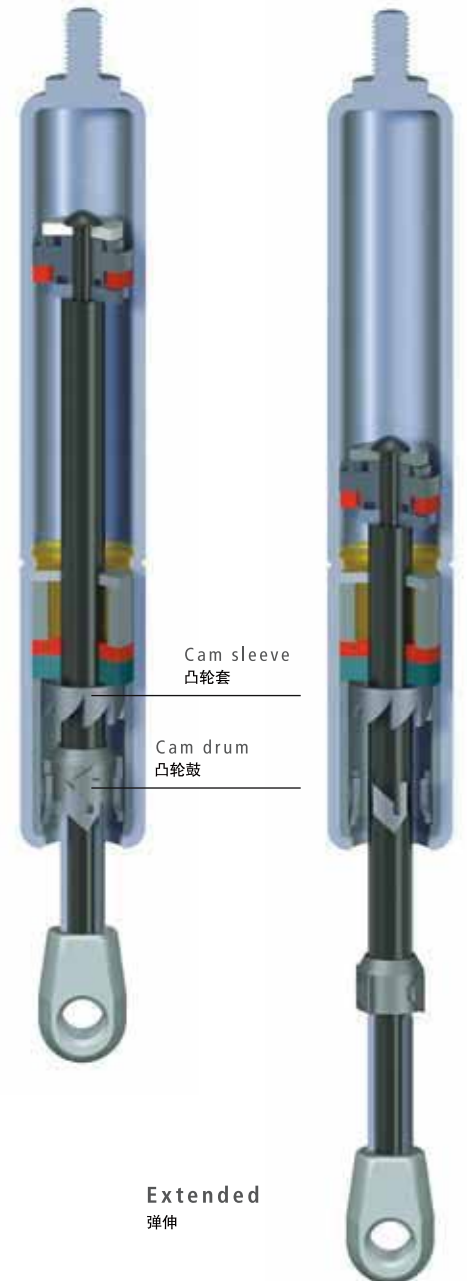
In addition to the force assist function, the LIFT-O-MAT PTL features an end position lock, eliminating the need for installing additional locking elements. At the same time, it is easy and convenient to use.

This gas spring is used in numerous applications, especially in contemporary designer and functional furniture.

Advantages

- Locking in compressed position
- End position lock without additional locking elements
- Simple release of the lock using the ballpoint pen principle
- User-friendly, convenient operation
- Maintenance-free

Locked in compressed position
压缩位置锁止



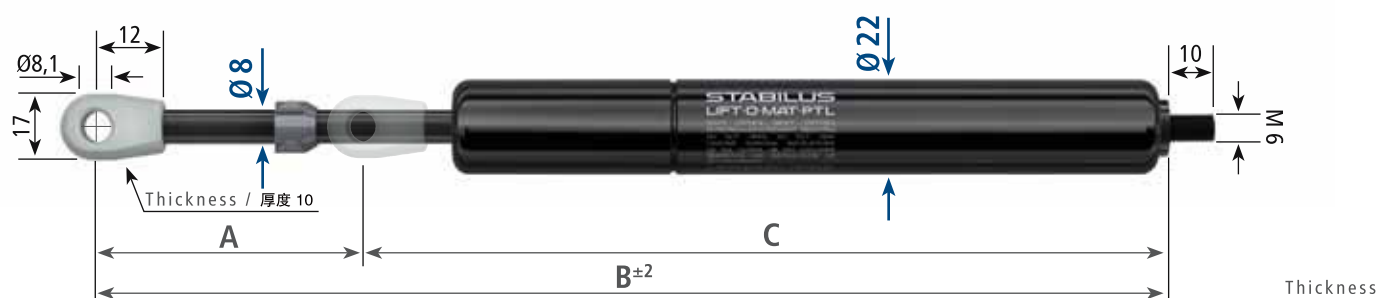
压缩位置自锁功能

LIFT-O-MAT PTL 是Stabilus 带有压缩位置机械锁止功能的液压阻尼气弹簧，原理类似于圆珠笔，可以通过轻轻推动气弹簧解锁，然后气弹簧会自动带阻尼弹伸。LIFT-O-MAT PTL 不仅可以提供辅助力，有末端锁止功能，而且不需要另加锁止附件，结构简洁、使用方便。这种气弹簧应用非常广泛，尤其在现代时髦和功能性家具中。

优点

- 压缩位置锁止
- 无附件末端锁止
- 简单的圆珠笔释放原理
- 操作便捷
- 免维护

Extended
弹伸



A	B	C		
Stroke 行程	Extended length 弹伸长度	Lock position 锁止位置	Force 力值 F ₁ [N]	Ref.-No. 零件号
100	305	205	*	814763
150	405	255	*	815719
200	505	305	*	818587
250	605	355	*	819304
300	705	405	*	820021
350	805	455	*	820977
400	905	505	*	822411

* F₁-Values from 100 - 400 N in steps of 50 N

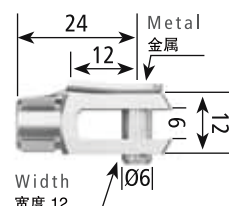
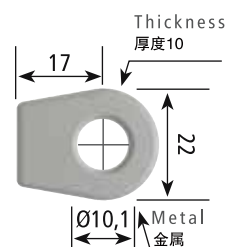
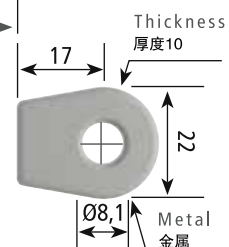
* F1力值范围: 100-400N,幅度为50N

Temperature range -15°C to +60°C

温度范围 -15°C — $+60^{\circ}\text{C}$

Ordering example / 订购案例

123456	/	0350N	/	D1
Ref.-No. 零件号		F ₁		Pressure tube end fitting 压力管端配件



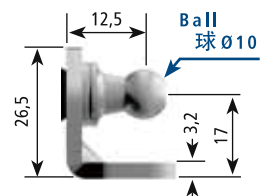
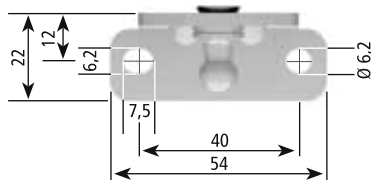
We reserve the right to make modifications. Dimensions in mm.
我们保留进行修改的权利。尺寸单位：mm。

Brackets for gas springs and dampers

气弹簧和阻尼器安装支架

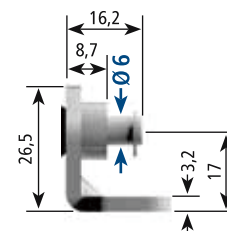
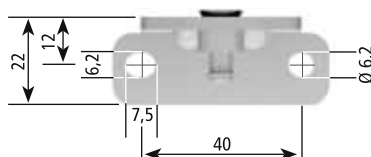
Part No. / 零件号 **8262WE**

$F_{\max}^* = 1000 \text{ N}$



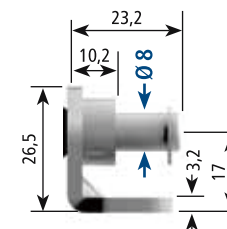
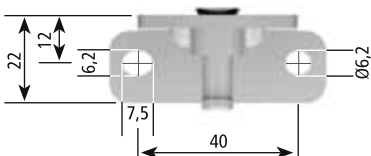
Part No. / 零件号 **8267WG**

$F_{\max}^* = 700 \text{ N}$



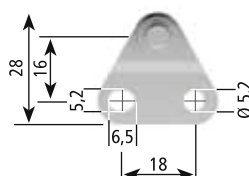
Part No. / 零件号 **8261WJ**

$F_{\max}^* = 1000 \text{ N}$



Part No. / 零件号 **8268WB**

$F_{\max}^* = 700 \text{ N}$

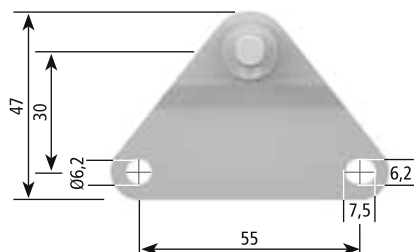


$F_{\max}^*$ = Maximum allowable force at 20°C in compressed position. Material: steel, zinc-plated.

$F_{\max}^*$ = 压缩位置20℃时最大允许力值。材料：钢，镀锌

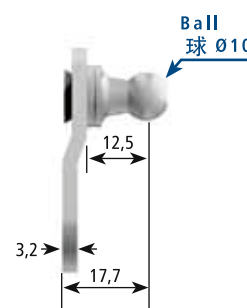
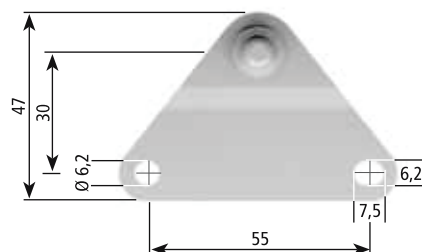
Part No. / 零件号 8264WV

$F_{max}^* = 1000 \text{ N}$



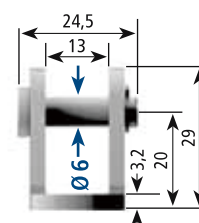
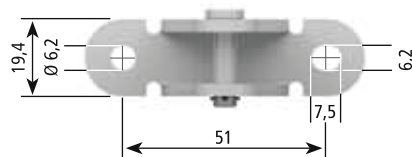
Part No. / 零件号 8265WQ

$F_{max}^* = 1000 \text{ N}$



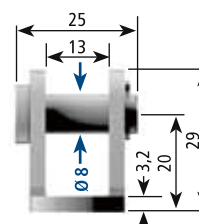
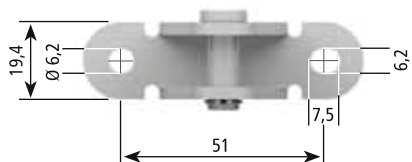
Part No. / 零件号 023189

$F_{max}^* = 700 \text{ N}$



Part No. / 零件号 023083

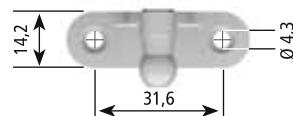
$F_{max}^* = 1600 \text{ N}$



Brackets for gas springs and dampers 气弹簧和阻尼器安装支架

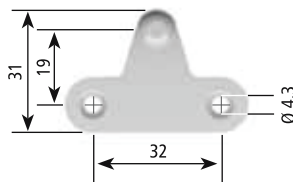
Part No. / 零件号 **9222SJ**

F_{max}* = 500 N



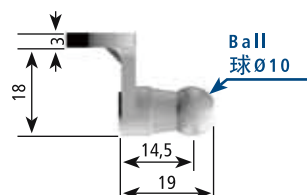
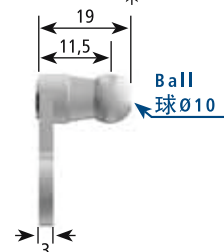
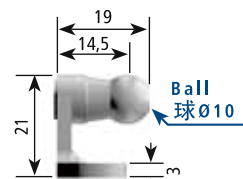
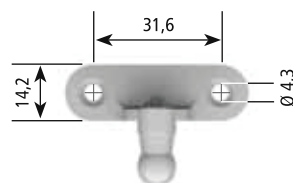
Part No. / 零件号 **7592TM**

F_{max}* = 350 N



Part No. / 零件号 **6284UG**

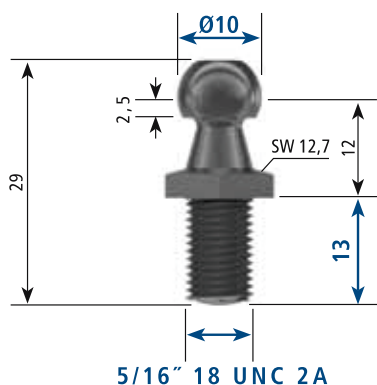
F_{max}* = 500 N



Ball stud / 球头螺钉

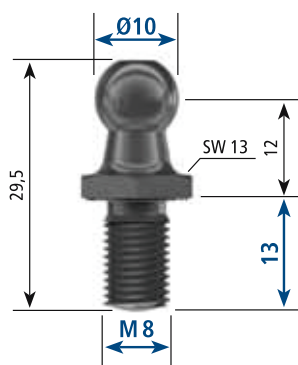
4565BD

Clear passivated / 亮色钝化



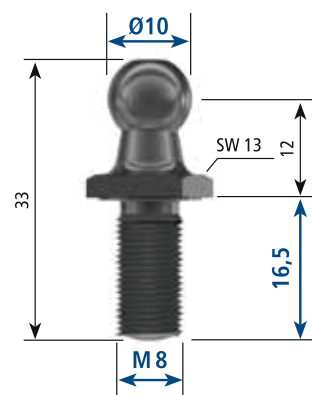
4486MD

Black passivated / 黑色钝化



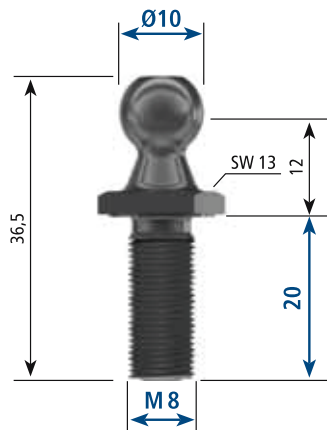
177583

Black passivated / 黑色钝化



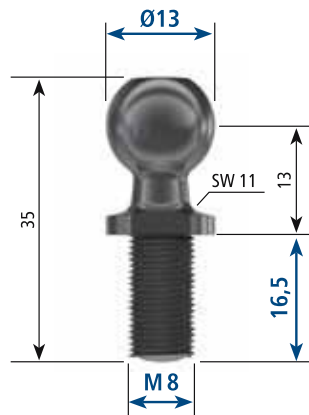
8442LT

Black passivated / 黑色钝化



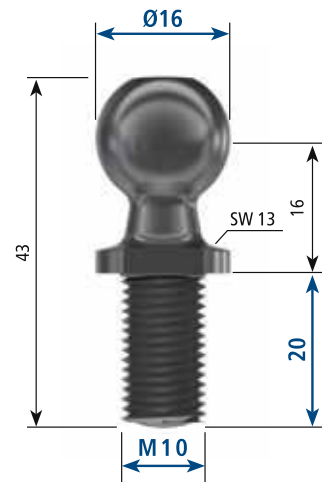
072796

Black passivated / 黑色钝化



2054QF

Clear passivated / 亮色钝化



We reserve the right to make modifications. Dimensions in mm.
我们保留进行修改的权利。尺寸单位：mm。



Stainless steel gas springs for the most demanding applications

The LIFT-O-MAT INOXLINE is a gas spring that is particularly corrosion resistant due to the use of AISI 316L steel (see DIN EN 100 88-1). It is used in critical environments, such as corrosive sea water, sea air or industrial exhaust gases.

Its corrosion resistance will ensure a high level of protection even during acid or lye exposure.

Carefully chosen materials for the LIFT-O-MAT INOXLINE components yield a virtually iron-free, non-magnetic product. This is especially attractive in medical and military technology as the stainless steel gas springs will barely interfere with the magnetic fields used in these industries.

The oils used in the Stabilus INOXLINE gas springs are biodegradable and consequently eco-friendly; they are classified in the water hazard class "no hazard to water". This is especially important for the water supply and environmental technology areas.

Advantages

- High corrosion protection
- Non-magnetic
- Environmentally friendly fluids
- Compact design
- Maintenance-free

更多应用的不锈钢气弹簧

LIFT-O-MAT INOXLINE 是特殊防腐蚀 AISI 316L 不锈钢 (参考 DIN EN 100 88-1) 气弹簧。应用于严酷的环境, 如海洋、工业废气, 确保即使在酸碱环境中也能保持优良品质。

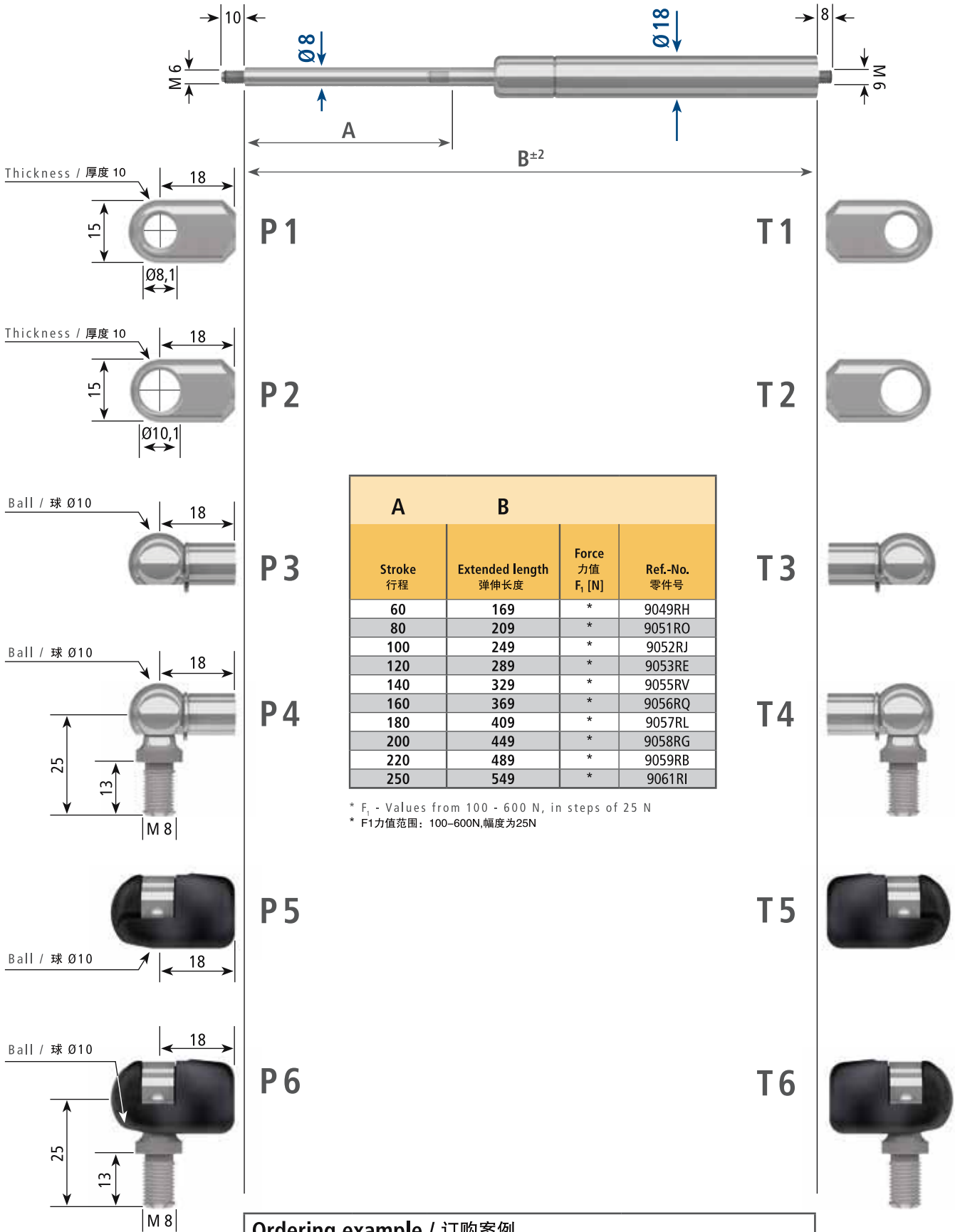
精益求精地选材铸造出 LIFT-O-MAT INOXLINE 无铁无磁的特性, 可以广泛应用于医疗和军事科技无磁的环境中。

Stabilus INOXLINE 气弹簧中的液压油属生物可降解和不妨害生态环境的油品, 是“无水危害”级别的。这对于供水和环境科技领域的应用也是很好的选择。

优点

- 高抗腐蚀性
- 无磁
- 环保
- 设计紧凑
- 免维护

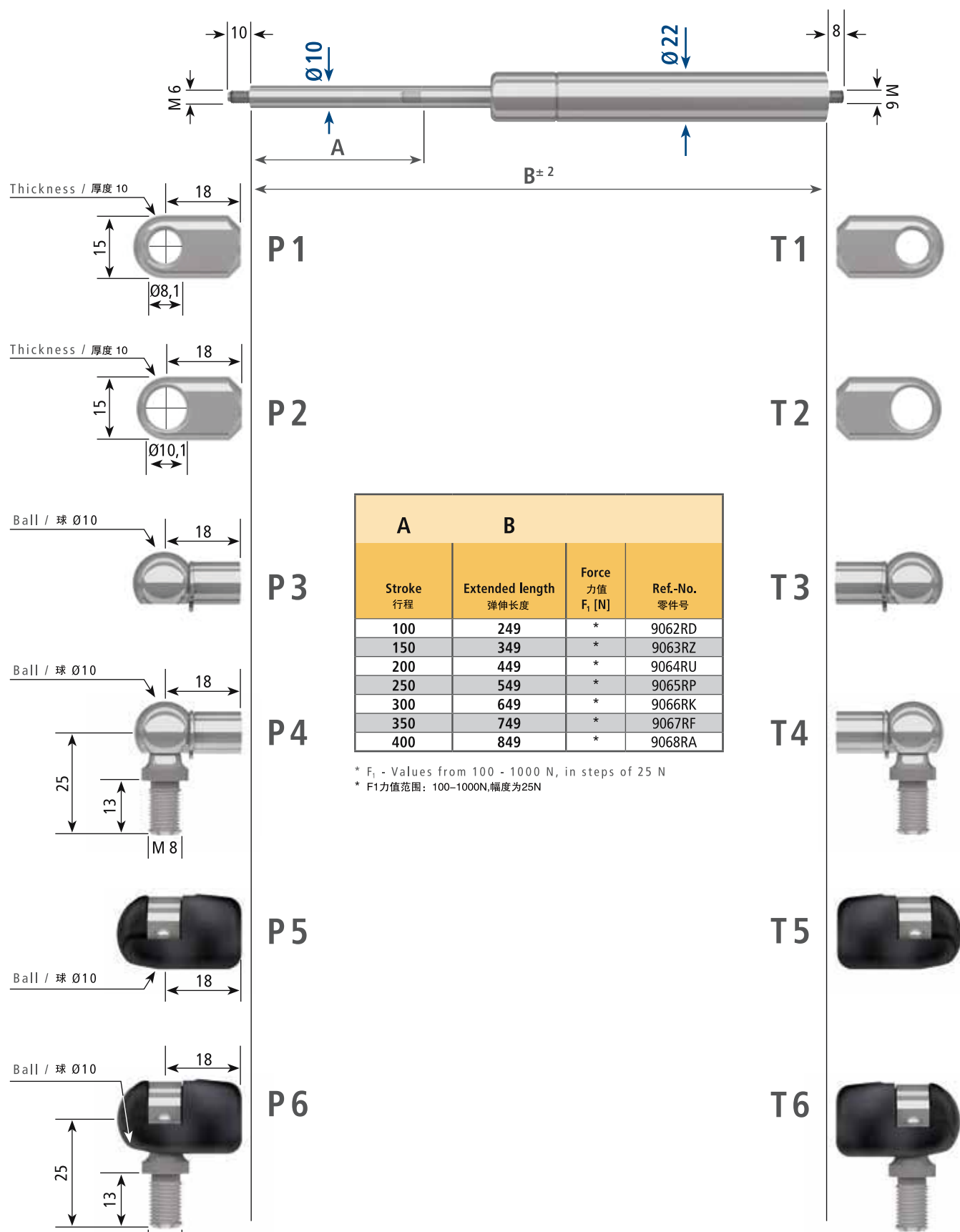




Ordering example / 订购案例

123456 / 0350N / P2 / T1			
Ref.-No. 零件号	F ₁	Piston rod end fitting 杆端接头	Pressure tube end fitting 管端接头

Installation according to STAB-Spec. 10022248
参考安装规范 STAB-Spec. 10022248



A		B	
Stroke 行程	Extended length 弹伸长度	Force 力值 F_1 [N]	Ref.-No. 零件号
100	249	*	9062RD
150	349	*	9063RZ
200	449	*	9064RU
250	549	*	9065RP
300	649	*	9066RK
350	749	*	9067RF
400	849	*	9068RA

* F_1 - Values from 100 - 1000 N, in steps of 25 N
* F_1 力值范围: 100-1000N,幅度为25N

Ordering example / 订购案例

123456	/	0350N	/	P2	/	T1
Ref.-No. 零件号		F_1		Piston rod end fitting 杆端接头		Pressure tube end fitting 管端接头

Installation according to STAB-Spec. 10022260
参考安装规范 STAB-Spec. 10022260

BLOC-O-LIFT – Locking gas springs

The BLOC-O-LIFT gas springs from Stabilus are so-called locking gas springs. They are used for functions such as adjustments with force assist, damping, as well as variable locking. Heavy flaps and lids can be moved easily and held safely in place.

BLOC-O-LIFT gas springs feature a special piston/valve system which separates the two pressure chambers in the spring. If the valve is open, BLOC-O-LIFT provides force support and damping. The linear spring characteristic curve will provide an even increase in force over the entire range of motion.

If the valve is closed, the gas spring locks and provides very high resistance to any motion.

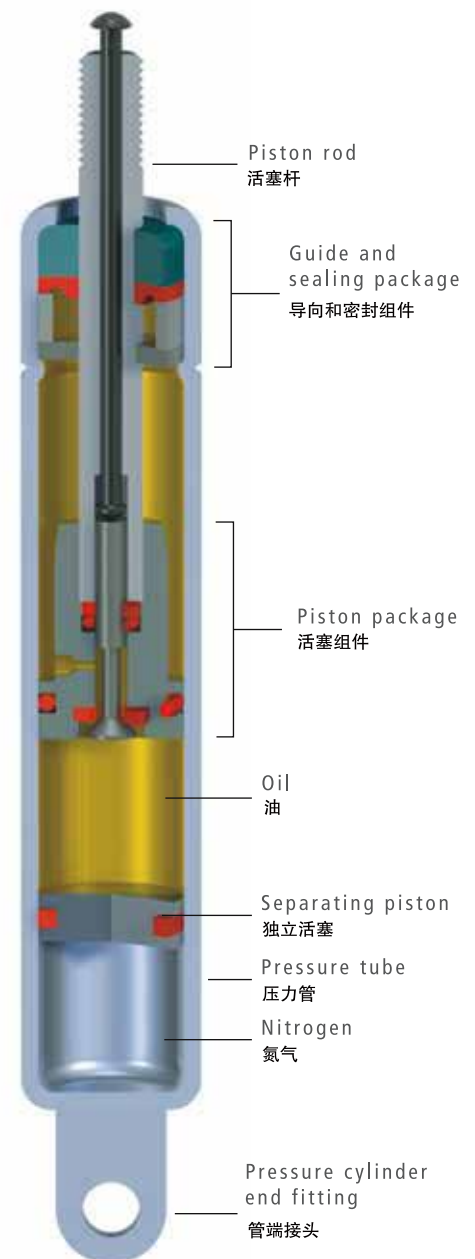
Primary application areas for BLOC-O-LIFT gas springs are furniture manufacture, medical technology, building technology,

aviation and aeronautics, ship building, automotive design, and many industrial applications.

Advantages and properties:

In addition to the benefits of the LIFT-O-MAT, the BLOC-O-LIFT offers

- Variable positioning with elastic or rigid locking in the tension or compression direction
- Rigid locking version is available as orientation-specific or non-orientation specific
- Depending on the application, available with patented, corrosion-free actuation tappet
- Different release systems available
- Two valve designs available: Standard release 2.5 mm and seat valve 1 mm for short release distances



BLOC-O-LIFT – 锁止式气弹簧

BLOC-O-LIFT气弹簧是锁止式气弹簧，他们适用于需要力值辅助、阻尼以及各种锁定的任何场合。从而使重型翻门和盖板得以轻松地移动和安全地锁定。

BLOC-O-LIFT气弹簧的特性是拥有一个独特的活塞/阀门系统，它可以把气弹簧压力管分割成两个独立的腔体。如果阀门开启，BLOC-O-LIFT提供一个自由式气弹簧特性：支撑力和阻尼，在整体运动行程中力值曲线是线性的。如果阀门关闭，气弹簧锁定，并提供高强度阻力。

BLOC-O-LIFT气弹簧主要应用领域为家具制造医疗科技、建筑科技、航空航天、船舶建造、汽车设计等多种工业应用。

特性及优势

- 在满足所有LIFT-O-MAT优点的前提下，BLOC-O-LIFT另具有
- 在任意弹伸或者压缩位置的弹性或者刚性锁止
 - 特定安装方向和任意安装方向的刚性锁止
 - 根据应用要求可选择专利、防腐蚀释放头
 - 可选不同释放系统
 - 两种设计的阀可供选择：2.5mm标准释放行程和1mm短释放行程



BLOC-O-LIFT specialty types

1 BLOC-O-LIFT with Override function

A special variation of this BLOC-O-LIFT gas spring comes with an additional override function. This function, designed for special customer requests, is to protect the application from overload. The override function is available in the tension or compression direction.

2 BLOC-O-LIFT OBT – locking in the compression direction

BLOC-O-LIFT OBT allows for convenient upward motion of applications, such as table tops, without the need to actuate a release. It is variably locking in the compression direction.

3 KOMBI-LIFT for special applications

The KOMBI-LIFT is a combination of a locking and non-locking gas spring; that is, a specified segment of the stroke can lock during extension. The functional ranges can be arranged in any location of the stroke. It is compressed independently of the lever position, like a standard LIFT-O-MAT.

4 HYDRO-BLOC

The HYDRO-BLOC is a locking element without extension force, with rigid locking in both directions. It is designed for applications requiring tuned damping and variable rigid locking that does not involve force assist.



特别产品类型

1 BLOC-O-LIFT带过载保护

带有过载功能的锁止气弹簧，在使用中可以保护超载，有利于用户操作。过载功能可运用在弹伸或压缩方向，并可在任意方向或垂直方向安装。

3 KOMBI-LIFT 特殊应用类型

KOMBI-LIFT是锁止和自由式气弹簧的结合体，它的特点是整个行程的一部分位置不可以锁定，表现如同普通的LIFT-O-MAT。

2 BLOC-O-LIFT OBT – 压缩方向解锁

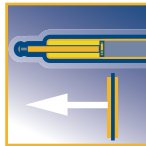
BLOC-O-LIFT OBT适用于不同的高度调节。无需释放装置就可以实现桌子向上调节，对于压缩方向，BLOC-O-LIFT OBT 可以在任意位置锁定，例如床边桌。

4 HYDRO-BLOC

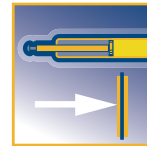
HYDRO-BLOC是一种没有弹力的锁止式气弹簧，它在弹伸方向和压缩方向都可以锁定。应用于只需要阻尼而不需要助力，并且在需要的时候能锁定的结构。



Springing blocking
弹性锁止



Rigid blocking in extension
弹伸方向刚性锁止



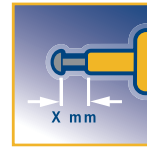
Rigid blocking in compression
压缩方向刚性锁止



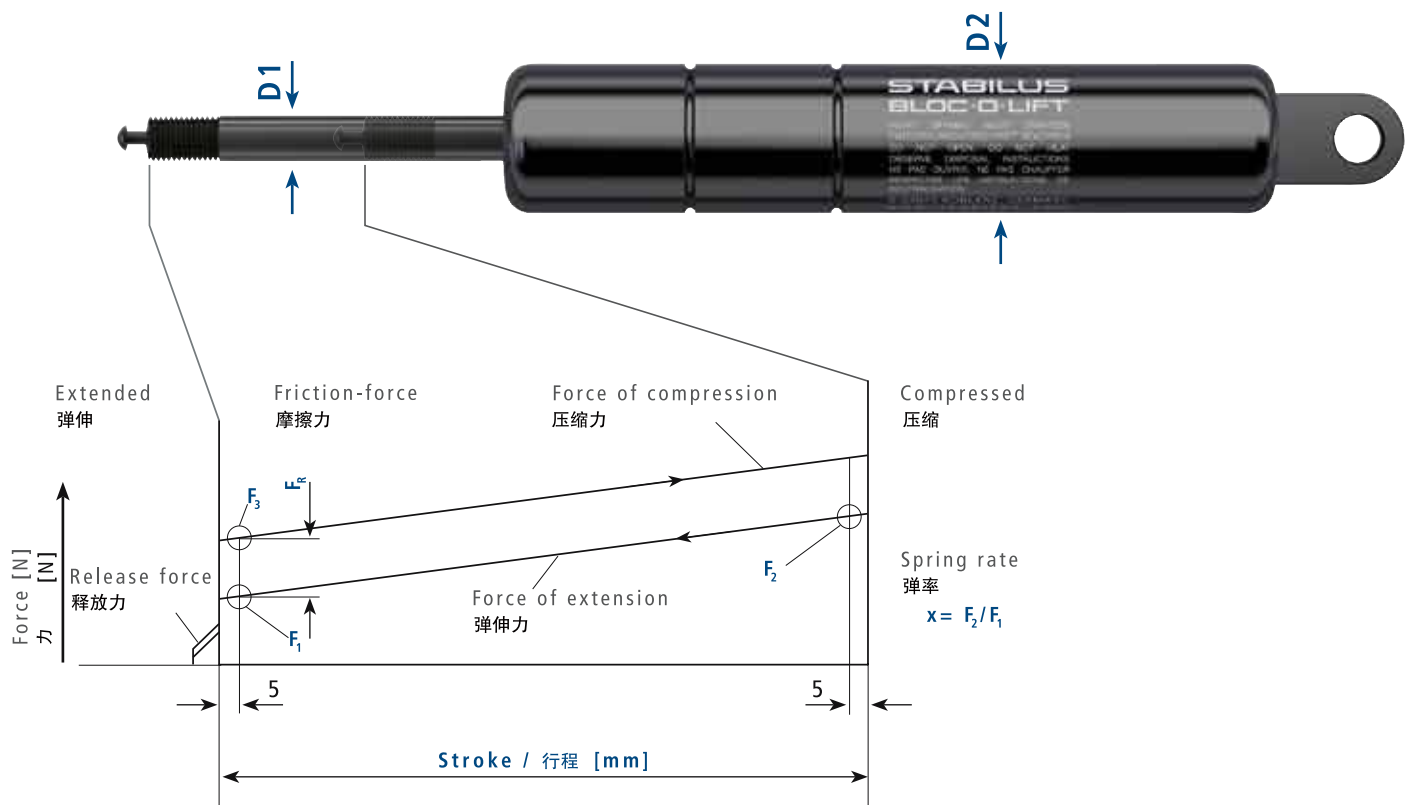
Installation position
any as required
任意安装方向



With piston rod upwards
活塞杆向上



Release way
释放行程



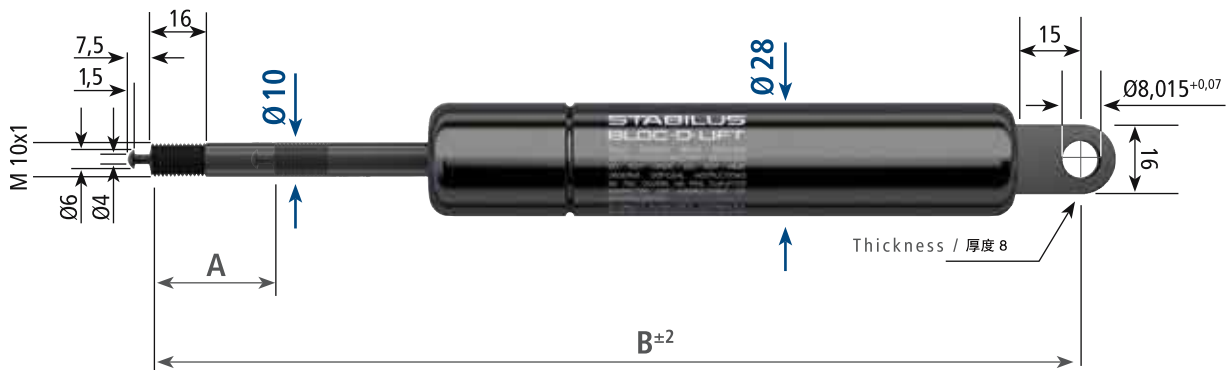
D1 [mm]	D2 [mm]	Force of extension 弹力 F_1 [N]	x ($\approx$)	F_R max. [N]	Release force 释放力
8	28	200 - 1000	1,01 - 1,5	80	ca. 30 % F_1
10	28	200 - 1200	1,01 - 1,6	80	ca. 18 % F_1

Installation instruction
安装规范
STAB-Spec. 1000 5593

Release force of calve according
控制阀释放力参考
STAB-Spec. 1000 5233

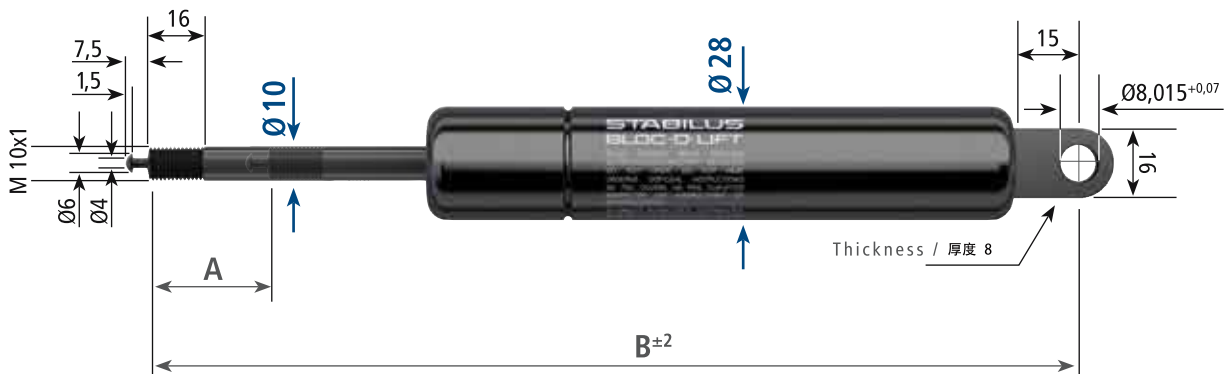
Statically measured forces
力值测量规范
STAB-Spec. 1000 9033

Disposal instruction
气弹簧废弃规范
STAB-Spec. 1000 9375
www.Stabilus.com/recycling/



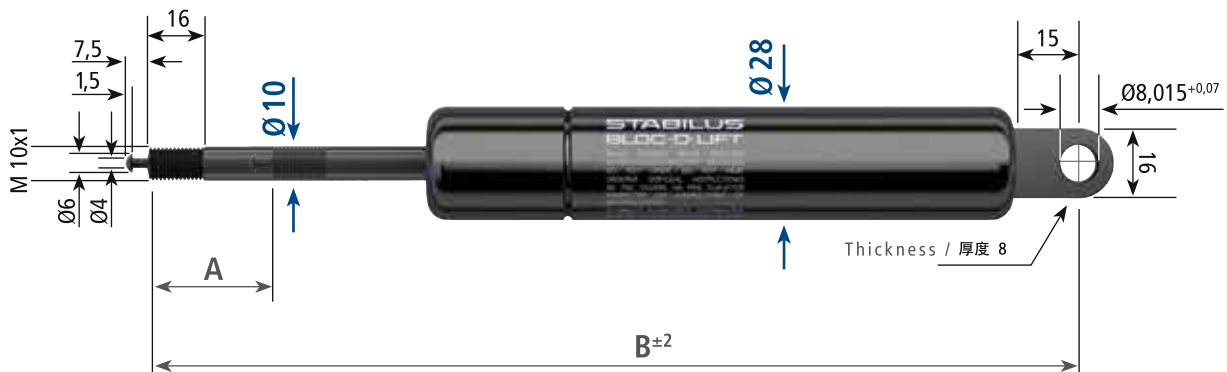
A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
20	149,5	300	670685
		350	728543
		400	728594
		500	670626
		600	728640
		800	691860
		1000	728659
		1200	728667
25	157,5	250	681830
		300	728675
		350	728683
		400	728705
		500	691879
		600	728713
		800	691887
		1000	728721
		1200	728748

A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
30	168,5	250	681849
		300	728756
		350	728764
		400	728772
		500	691895
		600	728780
		800	691909
		1000	728799
		1200	728802
40	187,5	200	681857
		250	728810
		300	728829
		350	728837
		400	728845
		500	691917
		600	728853
		800	691925
		1000	728861
		1200	728888



A		B	
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
20	149,5	300	681954
		350	729892
		400	729906
		500	692263
		600	729914
		800	692271
		1000	729922
		1200	729930
25	157,5	250	681962
		300	729949
		350	729957
		400	729965
		500	692298
		600	729981
		800	692301
		1000	730009
		1200	730017

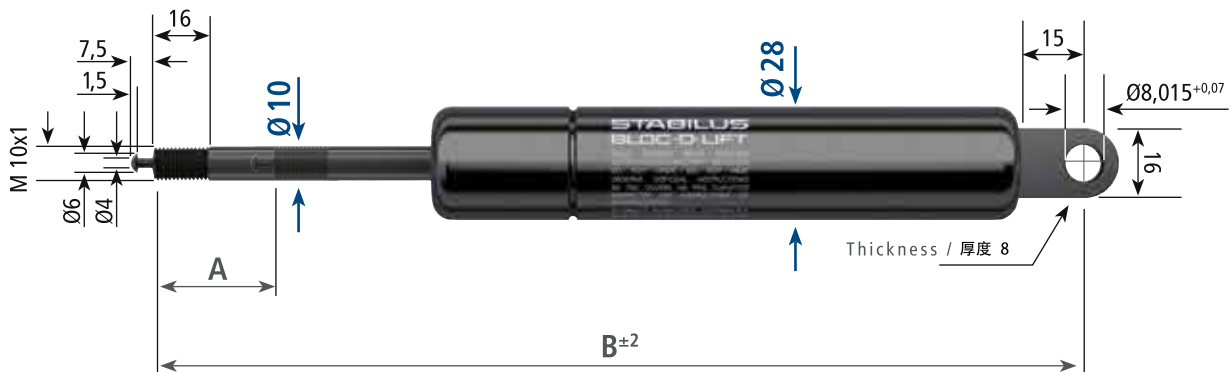
A		B	
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
30	168,5	250	681970
		300	730025
		350	730033
		400	730041
		500	692328
		600	730068
		800	692336
		1000	730076
40	187,5	1200	730084
		200	681989
		250	730092
		300	730106
		350	730114
		400	730122
		500	692344
		600	730130
		800	692352
		1000	730149
		1200	730157



A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
60	228	200	681865
		250	729345
		300	729353
		350	729361
		400	729388
		500	691933
		600	729396
		800	691941
		1000	729418
		1200	729426
80	269	200	681946
		250	729434
		300	729442
		350	729450
		400	729469
		500	691968
		600	729477
		800	691976
		1000	729485
		1200	729493
100	310	200	681873
		250	729507
		300	729515
		350	729523
		400	729531
		500	691984
		600	729558
		800	691992
		1000	729566
		1200	729574
120	348	200	681881
		250	729582
		300	729590
		350	729604
		400	729612
		500	692018
		600	729620
		800	692026
		1000	729639
		1200	729647

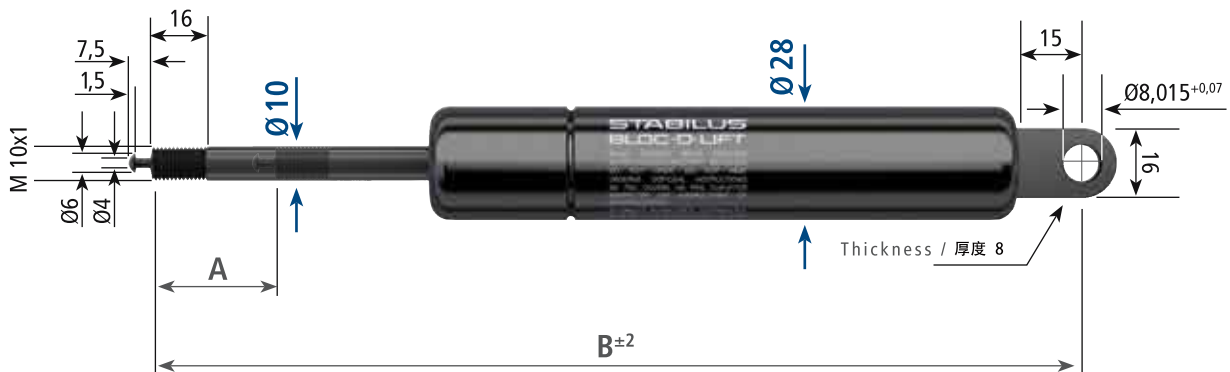
A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
160	430	200	681903
		250	729655
		300	729663
		350	729671
		400	729698
		500	692034
		600	729701
		800	692212
		1000	729728
		1200	729736
200	509	200	681911
		250	729744
		300	729752
		350	729760
		400	729779
		500	692220
		600	729787
		800	692239
		1000	729795
		1200	729809
250	610	200	681938
		250	729817
		300	729825
		350	729833
		400	729841
		500	692247
		600	729868
		800	692255
		1000	729876
		1200	729884

We reserve the right to make modifications. Dimensions in mm.
我们保留进行修改的权利。尺寸单位：mm。



A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
60	228	200	692360
		250	730165
		300	730173
		350	730181
		400	730203
		500	682136
		600	730211
		800	692379
		1000	730238
		1200	730246
100	310	200	682144
		250	730254
		300	730262
		350	730270
		400	730289
		500	692387
		600	730297
		800	692395
		1000	730300
		1200	730319

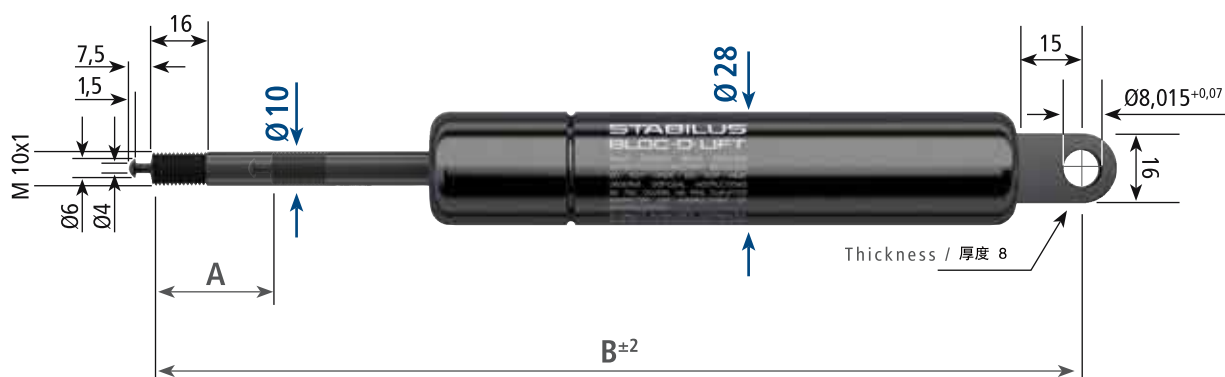
A	B		
Stroke 行程	Extended length 弹伸长度	Force / 力值 F ₁ [N]	Ref.-No. 零件号
200	509	200	682152
		250	730327
		300	730335
		350	730343
		400	730351
		500	692409
		600	730378
		800	692417
		1000	730386
		1200	730394



A	B				
Stroke 行程	Extended length 弹伸长度	F_z [N]	F_D [N]	Force / 力值 F_1 [N]	Ref.-No. 零件号
19,5	164,5	9500	2000	400	2691HR
		8500	2500	500	2694HC
		7500	3000	600	2696HT
		5500	4000	800	2698HJ
		3500	5000	1000	2721HZ
		2000	6000	1200	2723HP
22,5	177,5	9000	2000	400	2727HW
		8000	2500	500	2731HT
		7000	3000	600	2733HJ
		5500	4000	800	2736HV
		3000	5000	1000	2738HL
		1000	6000	1200	2741HN
31,5	192,5	10000	1000	300	2745HU
		9000	2000	400	2748HF
		8000	2500	500	2751HH
		7000	3000	600	2753HY
		5000	4000	800	2611HL
		3000	5000	1000	2776HY
40,5	212,5	10000	1000	300	2787HN
		9000	2000	400	2791HK
		8000	2500	500	2793HA
		7000	3000	600	2803HU
		5000	4000	800	2805HK
		2500	5000	1000	2807HA

F_z Blocking force in traction direction [N]
拉伸方向的锁止力 [N]

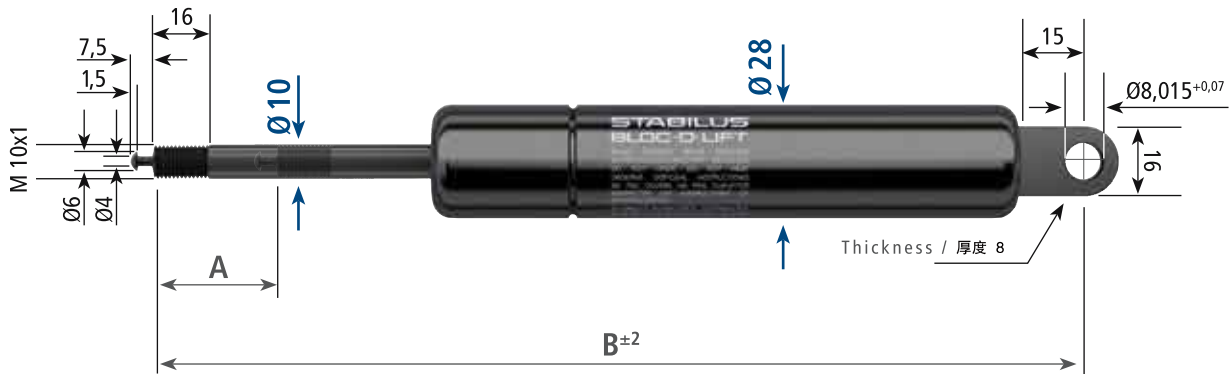
F_D Blocking force in compression direction [N]
压缩方向的锁止力 [N]



A		B			
Stroke 力值	Extended length 弹伸长度	F_z [N]	F_D [N]	Force / 力值 F_1 [N]	Ref.-No. 零件号
19,5	164,5	4500	2000	400	5139HY
		5500	2500	500	5144HQ
		7000	3000	600	5146HG
		6000	4000	800	5148HX
		4000	5000	1000	5151HZ
		2000	6000	1200	5153HP
25,5	177,5	4500	2000	400	5157HW
		6000	2500	500	5169HG
		7000	3000	600	5172HI
		5500	4000	800	5174HZ
		3500	5000	1000	5176HP
		1500	6000	1200	5178HF
31,5	192,5	3500	1000	300	5183HY
		5000	2000	400	5186HJ
		6000	2500	500	5189HV
		7000	3000	600	5192HX
		5500	4000	800	5194HN
		3500	5000	1000	5196HD
		1500	6000	1200	5198HU
40,5	212,5	4000	1000	300	5203HL
		5000	2000	400	5206HX
		6500	2500	500	5208HN
		7000	3000	600	5211HP
		5000	4000	800	5213HF
		3000	5000	1000	5215HW

F_z Blocking force in traction direction [N]
拉伸方向的锁止力 [N]

F_D Blocking force in compression direction [N]
压缩方向的锁止力 [N]

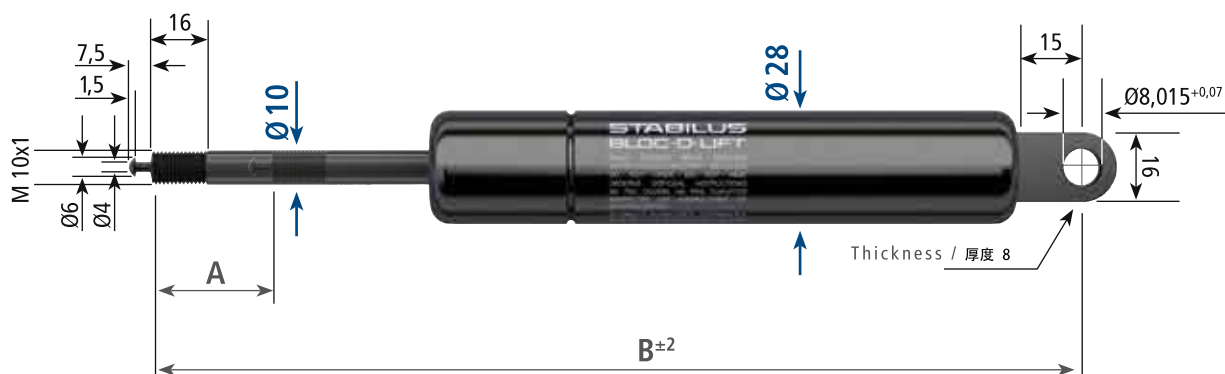


A	B				
Stroke 行程	Extended length 弹伸长度	F _Z [N]	F _D [N]	Force 力值 F ₁ [N]	Ref.-No. 零件号
60	265	10000	1000	300	5219HC
		9000	2000	400	5224HV
		8000	2500	500	5226HL
		7000	3000	600	5228HB
		4500	4000	800	5231HD
		2500	5000	1000	5233HU
81	310	10500	900	200	5284HB
		9500	1000	300	5238HW
		8500	2000	400	5241HY
		7500	2500	500	5243HO
		6500	3000	600	5245HE
		4000	4000	800	5248HQ
		1500	5000	1000	5251HS
100,5	370,5	10500	900	200	5255HZ
		9500	1000	300	5258HK
		8500	2000	400	5261HM
		7000	2500	500	5263HC
		6000	3000	600	5265HT
		3500	4000	800	5267HJ
121,5	420,5	10500	900	200	5273HX
		9500	1000	300	5281HA
		8000	2000	400	5283HR
		7000	2500	500	5285HH
		6000	3000	600	5287HY
		3500	4000	800	5289HO

A	B				
Stroke 行程	Extended length 弹伸长度	F _Z [N]	F _D [N]	Force 力值 F ₁ [N]	Ref.-No. 零件号
160,5	510,5	10500	900	200	5294HG
		9000	1000	300	5297HS
		8000	2000	400	5299HI
		7000	2500	500	5302HJ
		5500	3000	600	5311HI
		3000	4000	800	5313HZ
199,5	600,5	10500	900	200	5317HF
		9000	1000	300	5321HC
		8000	2000	400	5323HT
		6500	2500	500	5325HJ
		5500	3000	600	5328HV
		2500	4000	800	5331HX

F_Z Blocking force in traction direction [N]
拉伸方向的锁止力 [N]

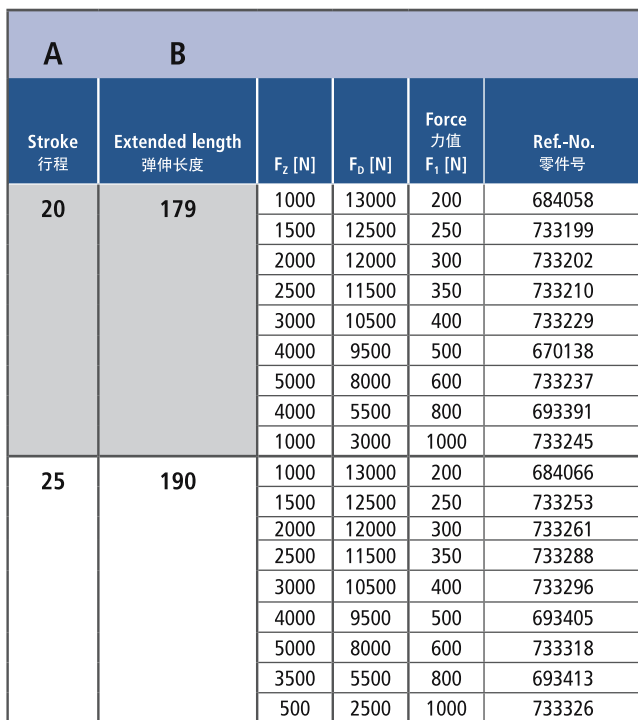
F_D Blocking force in compression direction [N]
压缩方向的锁止力 [N]



A	B				
Stroke 行程	Extended length 弹伸长度	F_z [N]	F_D [N]	Force / 力值 F_1 [N]	Ref.-No. 零件号
60	265	2500	900	200	5352HG
		4000	1000	300	5355HS
		5000	2000	400	5357HI
		6500	2500	500	5359HZ
		7000	3000	600	5362HA
		5000	4000	800	5364HR
100,5	370,5	2500	5000	1000	5366HH
		3000	900	200	5372HV
		4500	1000	300	5375HG
		6000	2000	400	5377HX
		7000	2500	500	5379HN
		6000	3000	600	5382HP
160,5	510,5	4000	4000	800	5384HF
		3000	900	200	5388HM
		4500	1000	300	5392HJ
		6000	2000	400	5395HV
		7000	2500	500	5397HL
		6000	3000	600	5399HB
		3000	4000	800	5402HC
250,5	730,5	3000	900	200	5406HJ
		4500	1000	300	5411HB
		6000	2000	400	5413HS
		7000	2500	500	5415HI
		6000	3000	600	5417HZ
		3000	4000	800	5419HP

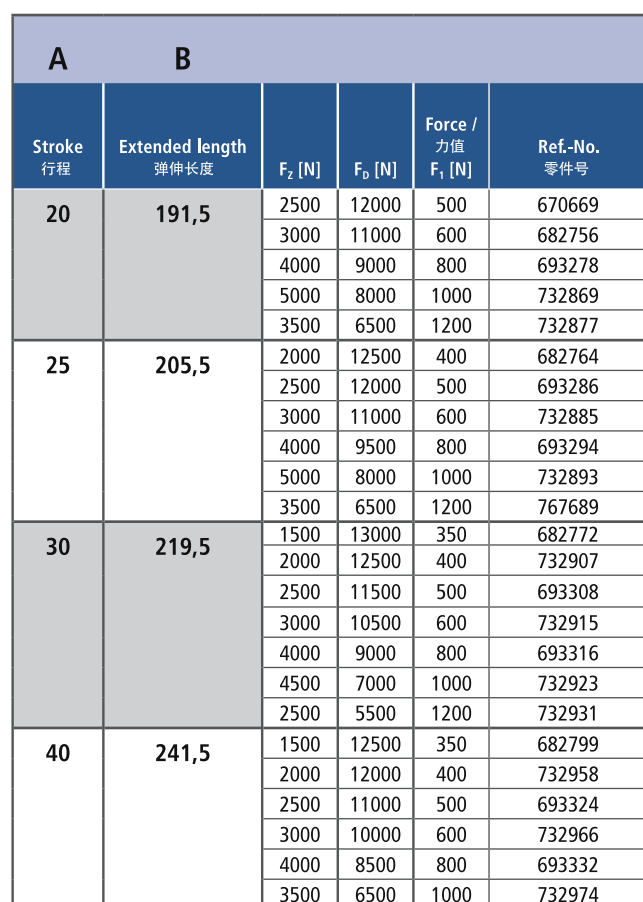
F_z Blocking force in traction direction [N]
拉伸方向的锁止力 [N]

F_D Blocking force in compression direction [N]
压缩方向的锁止力 [N]



A B					
Stroke 行程	Extended length 弹伸长度	F ₂ [N]	F _D [N]	Force 力值 F ₁ [N]	Ref.-No. 零件号
30	204	1000	13000	200	684074
		1500	12500	250	733334
		2000	12000	300	733342
		2500	11500	350	733350
		3000	10500	400	733369
		4000	9000	500	693421
		5000	8000	600	733377
		3500	5000	800	693448
40	226	1000	13000	200	684082
		1500	12500	250	733393
		2000	12000	300	733407
		2500	11000	350	733415
		3000	10500	400	733423
		4000	9000	500	693456
		5000	8000	600	733431
		3000	5000	800	693464

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A B					
Stroke 行程	Extended length 延伸长度	F _Z [N]	F _D [N]	Force / 力值 F _I [N]	Ref.-No. 零件号
80	350,5	500	13500	200	682802
		1000	13500	250	732982
		1000	13000	300	732990
		1500	12500	350	733008
		2000	12000	400	733016
		2500	11000	500	670677
		3000	10000	600	733024
		4000	8000	800	693340
		3000	6000	1000	733032
100	400,5	500	13500	200	682810
		1000	13000	250	733040
		1000	12500	300	733059
		1500	12000	350	733067
		2000	12000	400	733075
		2500	11000	500	693359
		3000	10000	600	733105
		4000	7500	800	693367
		2500	5500	1000	733113
120	450,5	500	13500	200	684023
		1000	13000	250	733121
		1000	12500	300	733148
		1500	12000	350	733156
		2000	11500	400	733164
		2500	10500	500	693375
		3000	9500	600	733172
		4000	7500	800	693383
		2000	5000	1000	733180

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F_z Blocking force in traction direction [N]
拉伸方向的锁止力 [N]

F_D Blocking force in compression direction [N]
压缩方向的锁止力 [N]

49

With especially flat spring characteristic

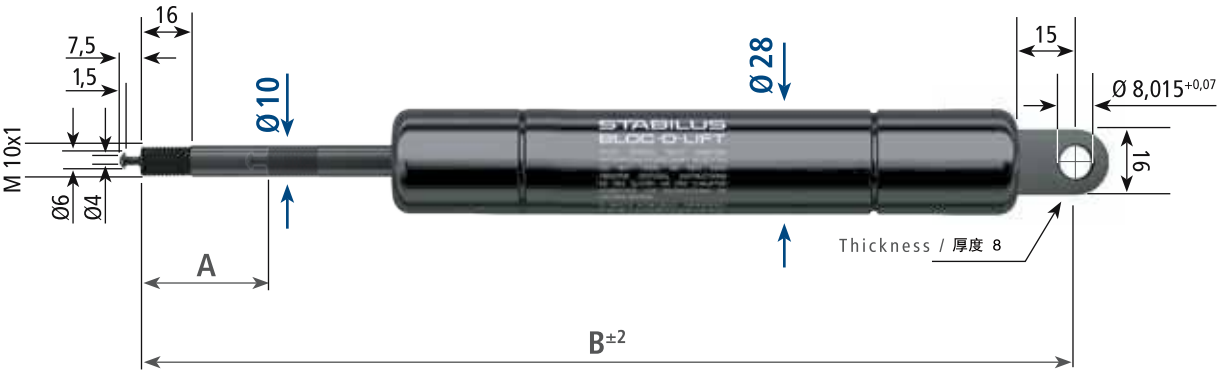
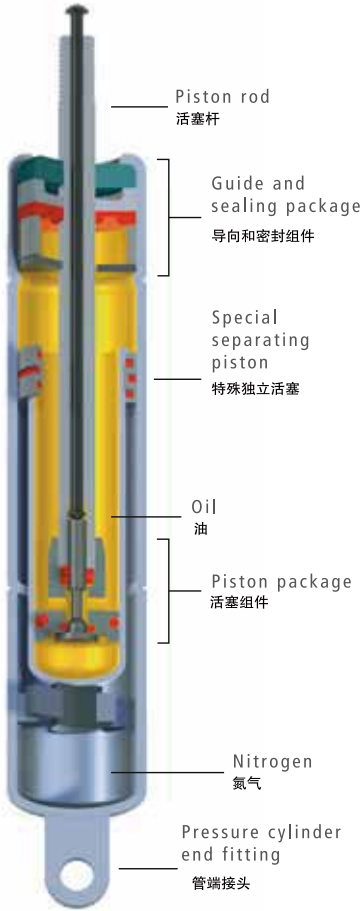
The BLOC-O-LIFT T gas spring, designed specifically for height-adjustable tables, has a very flat spring characteristic curve, providing virtually even adjustment over the entire stroke. This makes it easy to adjust the table top height, regardless of its weight, without the table losing stability or strength. The gas spring's compact design allows for rigid locking in any position of the long stroke while having a short compressed installation length. BLOC-O-LIFT T gas spring installation is not orientation-specific.

Consequently, the release mechanism can be mounted up for hand release or down for release by foot. It can be actuated with a suitable lever or bowden cable. There are numerous applications for BLOC-O-LIFT T, such as single- or dual-column tables, speaker pulpits, bedside tables or height-adjustable work surfaces.

具有平稳特性的锁止式气弹簧

BLOC-O-LIFT T 气弹簧专门为长距离高度调节桌板而设计，它拥有非常平稳的弹性曲线，能在整个行程中提供几乎均衡的支撑力。可以轻松调节桌面高度，而不论桌面承重是否变化，且高度调节过程中桌面能保持稳定和平衡。满足安装长度不足但需要大行程，并可以在任意位置刚性锁定。BLOC-O-LIFT T 气弹簧没有安装方向上的要求，因此，释放机构可以安装在上部靠手动释放，或者安装在下面用脚来释放。它可以由释放杆或拉线来释放。

BLOC-O-LIFT T 应用于多个领域，例如单柱或双柱桌子，讲台话筒，床边桌，或者其他需要高度调节的平台。



A B					
Stroke Hub	Extended length Ausgesch. Länge	F ₂ [N]	F ₀ [N]	Force / Kraft F ₁ [N]	Ref.-No. Bestell-Nr.
440	1020	480	860	150	114255
		640	980	200	114494

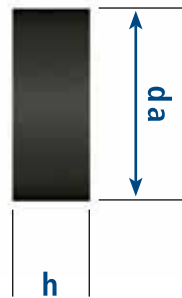
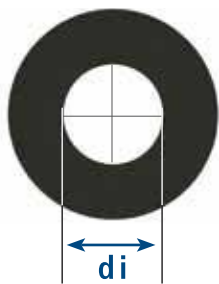
A B					
Stroke Hub	Extended length Ausgesch. Länge	F ₂ [N]	F ₀ [N]	Force / Kraft F ₁ [N]	Ref.-No. Bestell-Nr.
440	1020	800	980	250	114733
		960	980	300	114972

Temperature range 0°C to +40°C
温度范围 0°C——+40°C



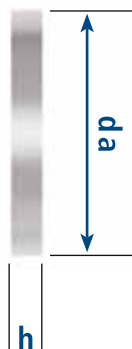
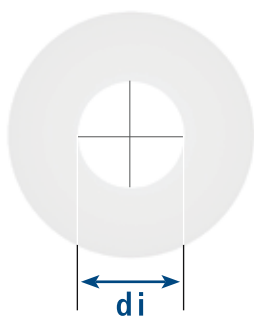
Screw nuts / 螺母

Thread 螺纹	b	sw	Ref.-No. 型号
M 8 x 1	5	13	012483
M 10 x 1	6	17	012491



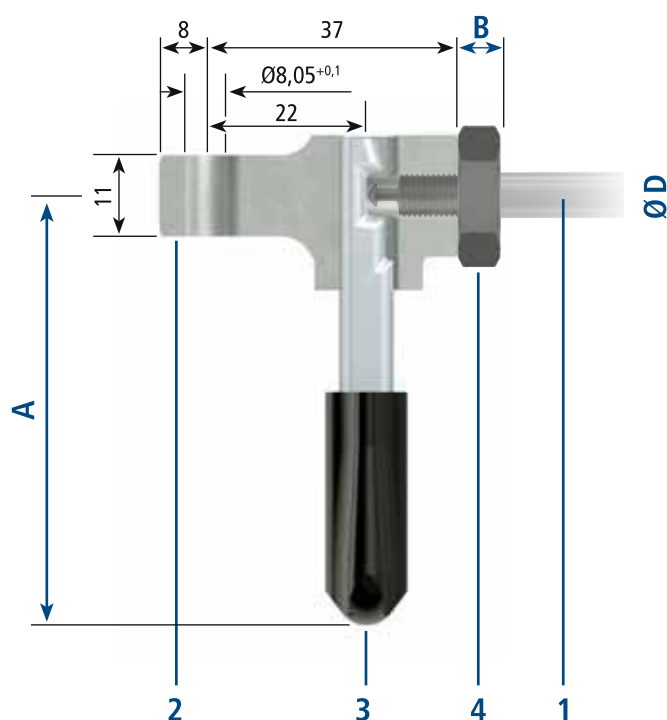
Rubber bumper / 橡胶缓冲垫

di Inner diameter 内径	da	h	Ref.-No. 型号
Ø 8	20	8	269069
Ø 10	20	4	036862
		8	036854



Washer / 垫圈

di Inner diameter 内径	da	h	Ref.-No. 型号
Ø 8	19	3	023582
Ø 10	24	3	363979



1	Ø D	Ø 8	Ø 10
	Thread / 螺纹	M 8 x 1	M 10 x 1
	Release way / 释放行程	1 mm	1 mm
	B	5 mm	6 mm
2	Release head for standard release 标准释放头	9102GW	130850
	Release head for permanent release 长寿命释放头	0516CC	271985
3	A Release lever 释放杆	64 mm	992259
		104 mm	1041BN
		122 mm	132543
		167 mm	065056
		196 mm	125466
4	Screw Nuts / 螺母	012483	012491

Release head suitable for all BLOC-O-LIFT from our standard programme with release way 1 mm.
Please pay attention to the mounting instructions for the BLOC-O-LIFT release head.

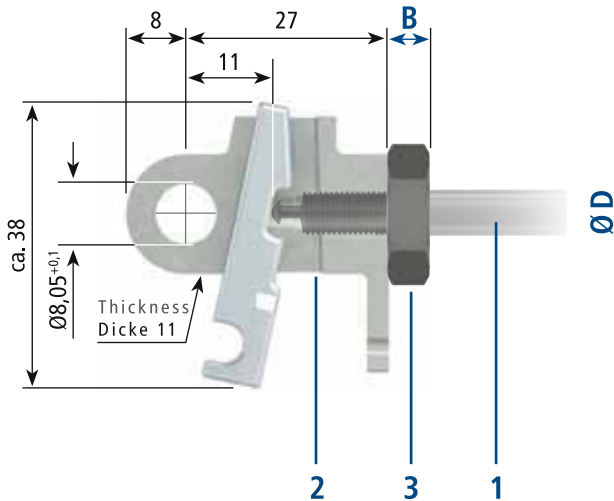
STAB-Spec. 1000 5725

释放头适合释放行程为1mm的BLOC-O-LIFT标准目录件。
请参考BLOC-O-LIFT释放头安装建议。

STAB-Spec. 1000 5725

Accessories release systems

释放系统附件



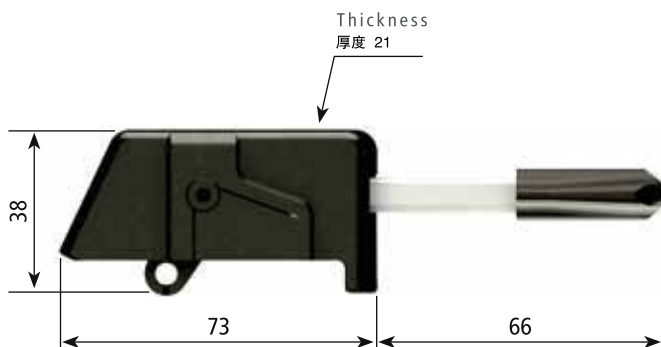
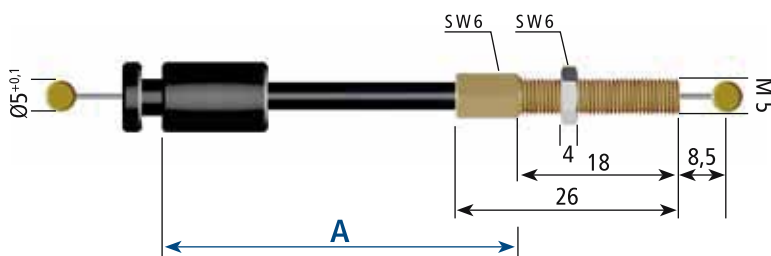
1	Ø D	Ø 8	Ø 10
	Thread / 螺纹	M 8 x 1	M 10 x 1
	B	5 mm	6 mm
2	Release head and lever 释放头和释放杆	012820	007409
3	Screw Nuts 螺母	012483	012491

Release head suitable for all BLOC-O-LIFT from our standard programme. Please pay attention to the mounting instructions for the BLOC-O-LIFT release head.

STAB-Spec. 1000 6476 and STAB-Spec. 1000 5635

释放头适合BLOC-O-LIFT标准目录件。
请参考BLOC-O-LIFT释放头安装建议。

STAB-Spec. 1000 6476 und STAB-Spec. 1000 5635



A Length of bowden-wire 拉线长度	Ref.-No. 型号
200	0345BH
300	878189
400	7605AV
500	0346BC
600	0347BY
700	5240AD
800	0304BJ
900	0298BX
1000	0305BE

Release unit 释放机构	Ref.-No. 型号
	1044BZ

For a release unit with a bowden-wire longer than 400 mm a BLOC-O-LIFT with release way 1 mm is necessary.

对于拉线长度大于400的拉线，建议选择释放行程为1mm的BLOC-O-LIFT。

We reserve the right to make modifications. Dimensions in mm.
我们保留进行修改的权利。尺寸单位: mm。



Mechanical release systems for ultimate convenience

In combination with BLOC-O-LIFT gas springs, the SOFT-O-TOUCH from Stabilus makes lifting, lowering and adjusting especially easy.

Our SOFT-O-TOUCH line provides complete release systems for Stabilus BLOC-O-LIFT gas springs. BLOC-O-LIFT gas springs that are difficult to access can be connected via pre-set bowden cables to push-buttons that can be placed in the ideal location on your application. Thanks to specifically tuned release heads, these ergonomic push-buttons are easy to operate.

High quality materials and a pleasing design allow their use in a wide range of high-end applications, both in the furniture industry and medical technology as well as in vehicle seats and in general mechanical engineering. A choice between buttons with axial and lateral bowden cable configurations will give you even more flexibility in your design.

Result: Convenience that will lend your products even more value.



便捷的机械释放系统

结合BLOC-O-LIFT 气弹簧，Stabilus的SOFT-O-TOUCH 按钮释放机构让举升、降低以及调整变得异常简单。

BLOC-O-LIFT气弹簧可以通过拉线连接远端的释放按钮，依靠特殊调整的高倍释放头，符合人体工程学的按钮得以轻松地操作。

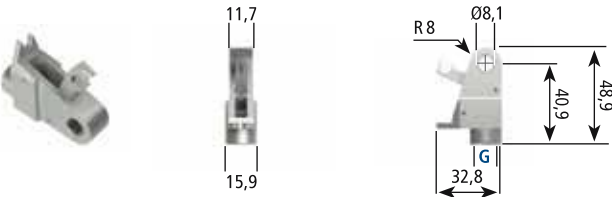
高品质材料以及完美的设计可以让SOFT-O-TOUCH 在高端领域得到广泛应用，如家具工业，医疗科技，汽车座椅以及工程机械中。

拉线有纵向和横向两种构造可供选择，以满足多种布局要求。

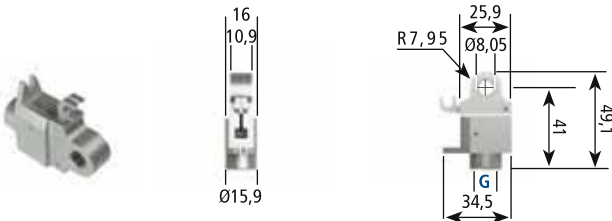
成效：便捷铸造卓越

Release heads / 释放头

Light release / 轻柔释放



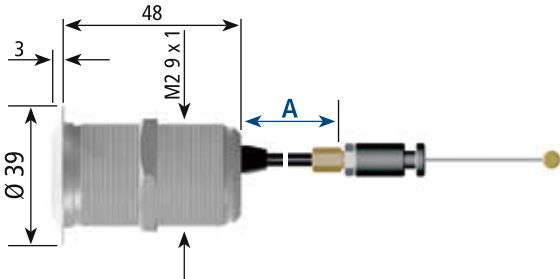
Ultra light release / 超轻释放



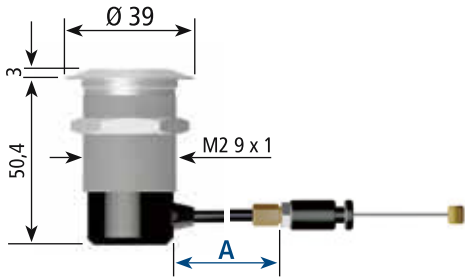
Force / Kraft F_1 [N]	G Thread / Gewinde	Ref.-No. Bestell-Nr.
For BLOC-O-LIFT gas springs to $F_1 = 500$ N suitable for release strokes up to 2,5 mm 适用于BLOC-O-LIFT气弹簧 $F_1 = 500$ N 释放行程 2.5mm	M 8 x 1	075291
	M 10 x 1	006837
For BLOC-O-LIFT gas springs to $F_1 = 1000$ N suitable for release strokes up to 1,0 mm 适用于BLOC-O-LIFT气弹簧 $F_1 = 1000$ N 释放行程 1.0mm	M 8 x 1	074574
	M 10 x 1	112485

Push-Buttons / 按钮

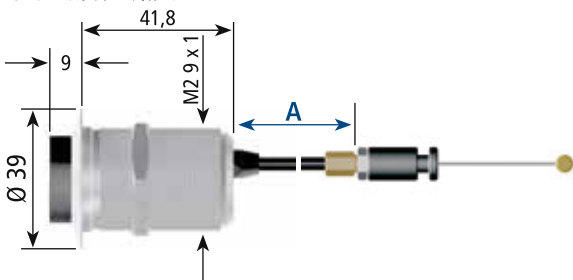
Flush push-button with axial bowden cable exit
平面纵向拉线按钮



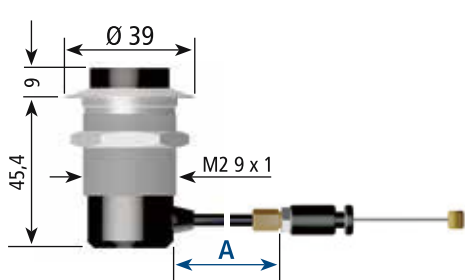
Flush push-button with lateral bowden cable exit
平面横向拉线按钮



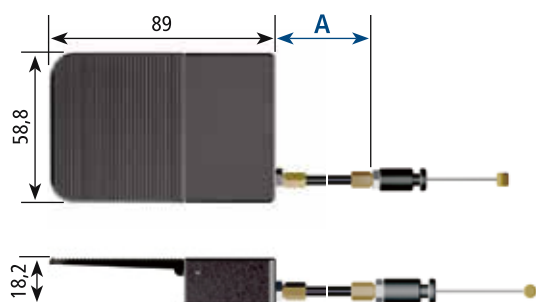
Protruding push-button with axial bowden cable exit
凸面纵向拉线按钮



Protruding push-button with lateral bowden cable exit
凸面横向拉线按钮



Flat lever / 踏板



Material / Colour 材料 / 颜色	Compatible release heads 释放头	A Bowden cable length 拉线长度	Ref.-No. 零件号
button: plastic, black housing: aluminium, silver 按钮: 黑色塑料 外罩: 银色铝	075291 (M 8 x 1) 006837 (M 10 x 1)	500	076964
		750	080310
		1000	081983
	074574 (M 8 x 1) 112485 (M 10 x 1)	500	481829
		750	069555
		1000	073140
button: plastic, black housing: aluminium, silver 按钮: 黑色塑料 外罩: 银色铝	075291 (M 8 x 1) 006837 (M 10 x 1)	500	075052
		750	080788
		1000	082222
	074574 (M 8 x 1) 112485 (M 10 x 1)	500	068599
		750	069794
		1000	073379
button: plastic, black housing: aluminium, silver 按钮: 黑色塑料 外罩: 银色铝	075291 (M 8 x 1) 006837 (M 10 x 1)	500	077681
		750	081266
		1000	082461
	074574 (M 8 x 1) 112485 (M 10 x 1)	500	069077
		750	070272
		1000	074096
button: plastic, black housing: aluminium, silver 按钮: 黑色塑料 外罩: 银色铝	075291 (M 8 x 1) 006837 (M 10 x 1)	500	079354
		750	081505
		1000	082700
	074574 (M 8 x 1) 112485 (M 10 x 1)	500	069316
		750	072901
		1000	074813
lever: zinc diecasting, black housing: plastic, black 踏板: 黑色锌合金 外罩: 黑色塑料	075291 (M 8 x 1) 006837 (M 10 x 1)	500	088197
		750	088675
		1000	104927
	074574 (M 8 x 1) 112485 (M 10 x 1)	500	068838
		750	088436
		1000	105166

STAB-O-SHOC – Oil-hydraulic dampers

Stabilus offers dampers for a variety of applications. Whether in automotive manufacturing, process technology manufacturing, industrial applications, or in the furniture industry – STAB-O-SHOC dampers from Stabilus are always there when it comes to positively affecting motion and vibrations.

The vibration system transmits motion into the dampers and converts the kinetic energy into thermal energy. Consequently, the damping forces generated will always depend on the piston speed. Hydraulic dampers with a modular piston system allow adapting the tensile and compression forces, which may differ to the application.

Characteristics:

- **Not orientation-specific:**
Can be installed in any position.
- **Orientation-specific:** Install with piston rod down or up.

- **Friction fit:** When the load is reversed, the damping force will be actuated immediately. The force is transmitted without a no-load stroke.
- **No friction fit:** When the load is reversed, damping force and force transmission will be actuated with a delay.
- **Extension force:** Static extension force for the piston rod can be specified.

Advantages and properties:

- Easy opening and closing of doors and lids
- Dampened closing of doors
- Relieves the hinge mechanisms
- Will stay safely open
- Easy mounting
- Compact, attractive design
- Maintenance-free

STAB-O-SHOC – 液压阻尼器

斯泰必鲁斯为各种应用领域提供阻尼器，不论是汽车制造，科技生产，工业应用，或者是家具生产，斯泰必鲁斯所提供的 STAB-O-SHOC 阻尼器都能对运动和震动产生积极的影响。

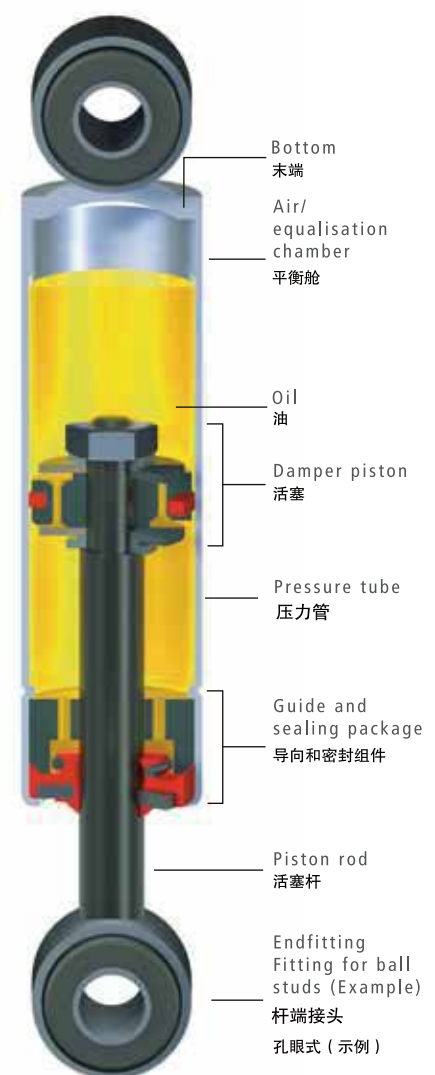
震动系统把运动传递到阻尼器，同时动能转化为热能。因此，阻尼力大小取决于活塞杆的速度。液压阻尼器拥有模块化的活塞组件，从而适配伸展或者压缩方向上的力，以满足不同应用。

特点：

- 无方向要求
可以在任意位置安装
- 有方向要求
活塞杆向上或向下安装
- 摩擦配合
当载荷产生，阻尼力也立即反应，没有空载行程
- 无摩擦配合
当载荷产生，阻尼力会延迟反应
- 弹伸力
有弹伸力或无弹伸力的阻尼器

优势及特性：

- 轻松开启和关闭门或盖板
- 关门时带阻尼
- 减轻铰链及相邻组件的冲击
- 保持安全操作
- 安装简单
- 小巧精致的设计
- 无维修





STAB-O-SHOC motion and stop dampers

Uncontrolled movements when opening, closing, lifting or lowering lids are dangerous, inconvenient and they stress the material. Through their damping force, Stabilus motion and stop dampers support controlled motion

during lifting and lowering of lid applications; they also reduce material wear by avoiding hard stops in the end position. In addition to the standard damper types HD15 and HD24 described on the following pages, Stabilus also offers a multi-

tude of variants, such as the GD15 or GD24/29 SP. Find out more about these by contacting us.

STAB-O-SHOC vibration dampers

Undesirable vibrations can interfere with the smooth running of machinery and equipment, shortening their service life. Vibration dampers from Stabilus convert the kinetic energy of moving components into thermal energy, keeping applications in an

even workflow that is gentle on the material. They will absorb shock and avoid large oscillation amplitudes. With their HD24 MB types and the TA20, Stabilus offers standard products in this segment as well. For those cases where standard is

not enough, we can provide additional product variants, such as the GD15SP, HD24/28BV, or the TA30 or TA40.

STAB-O-SHOC 运动和停止阻尼器

不可控制的运动，如当开关，举升或降低门盖时是不舒适的也是危险的，并且冲击各种结构。通过本身的阻尼力，斯泰必鲁斯的运动和停止阻尼器对举升和降低门板可以提供有效的控制，并且可以降低由于末端冲击而造成机构的磨损。

标准型阻尼器HD15和HD24

请查看后续详细描述

了解更多其他特殊阻尼器，如GD15, GD24/29

请联系我们特殊型阻尼器GD15

STAB-O-SHOC 震动阻尼器

无用的震动会干涉机械设备的平稳运行，缩短使用寿命。斯泰必鲁斯的震动阻尼器把动能转化为热能。甚至可以应用在生产线的物料处理中，这种阻尼器可以吸收震动避免剧烈震动。

标准型阻尼器HD24 MB和TA20

特殊型阻尼器GD15SP, HD24/28BV

或者TA30, TA40

The standard STAB-O-SHOC HD15 is a non-pressurized damper. It is orientation-specific and achieves its optimum function in almost vertical

Special variants with horizontal function are also possible, as are

models providing force support during extension or path-dependent damping.

标准型号STAB-O-SHOC HD15是一种定向安装的非压力阻尼器，通常是垂直安装，无空行程。其特殊型号可以实现水平安装，在弹伸方向或阻尼运动中提供力辅助。



Installation according to STAB-Spec. 10145882
参考安装规范 STAB-Spec. 10145882

We reserve the right to make modifications. Dimensions in mm.
我们保留进行修改的权利。尺寸单位：mm。

STAB-O-SHOC HD24

Dampers for high loads

The STAB-O-SHOC HD24 from Stabius is a standard single-tube vibration damper for versatile applications, especially for high

loads. Due to a special piston system with valve plates and a base piston with different reduction cross sections, this model is the ideal motion damper.

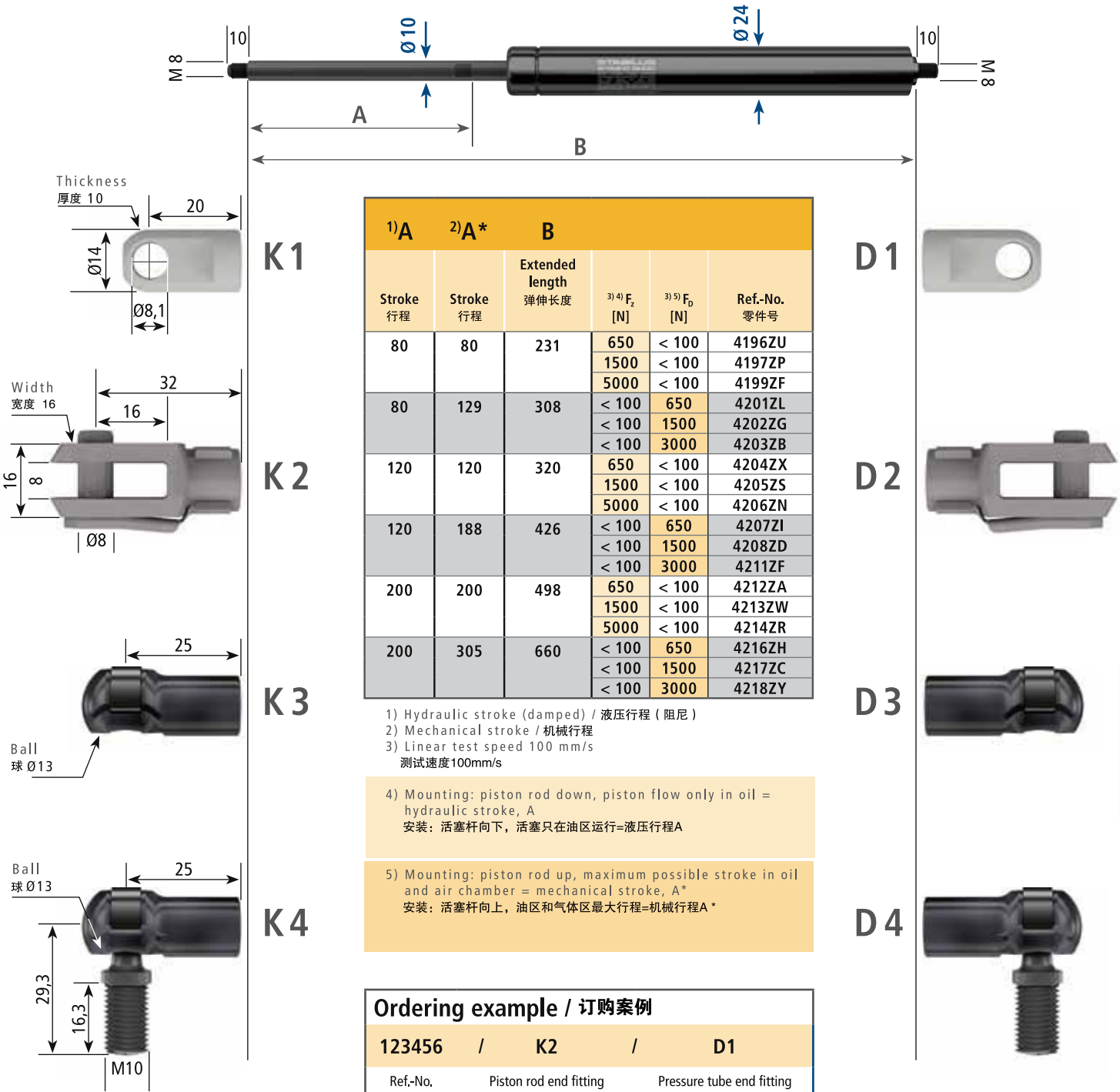
Because of its "open" equalization chamber, the damping force is delayed (slip or no-load stroke).

高负载阻尼器

STAB-O-SHOC HD24 是标准型单管震动阻尼器，应用广泛，特别是应用于高负载。

可在出厂前调试曲线以便适用于应用场合：递增、递减或近似线性的曲线

拥有平衡舱，阻尼延迟（滑行或者空载行程）



Installation according to STAB-Spec. 10145883
参考安装规范 STAB-Spec. 10145883

STAB-O-SHOC HD24 MB

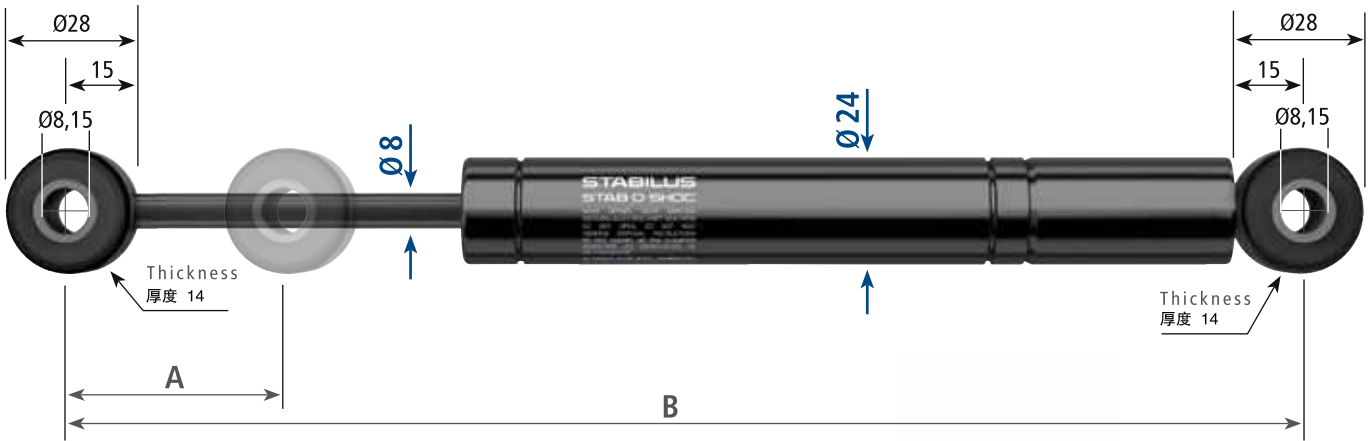
Damper with bottom valve and diaphragm

The STAB-O-SHOC HD24 MB is a vibration damper with bottom valve and diaphragm.

带末端阀和隔膜的震动阻尼器
任意安装方向，无压力阻尼器，
自然状态活塞杆收缩，无空载
行程，即时反应型阻尼器

The closed diaphragm in the pressure tube combines the special features of the bottom valve with non-orientation-specific mounting. The damper is non-pressurized, so

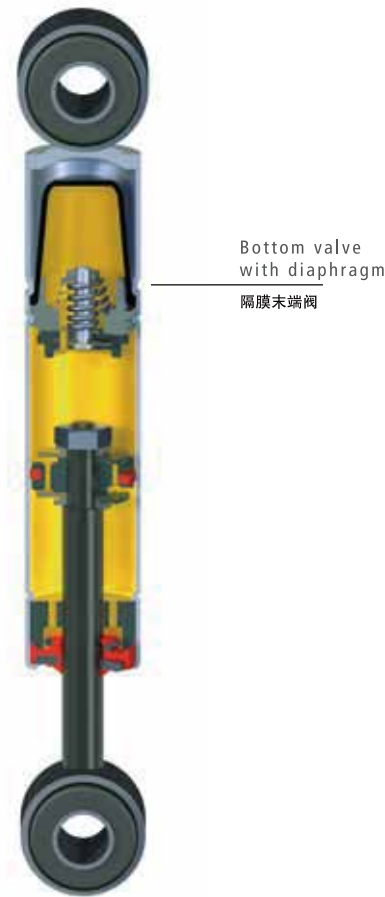
that the piston rod will stay in the pressure tube. Since there is no no-load stroke, dampening will be actuated instantly.



A		B		
Stroke 行程	Extended length 弹伸长度	^{1) 2)} F _z [N]	^{1) 2)} F _D [N]	Ref.-No. 零件号
30	213,5	100	100	2529YM
		400	400	2546YP
		1000	1000	2548YF
60	273,5	100	100	2598YC
		400	400	2602YZ
		1000	1000	2611YY

1) Test speed 104 mm/s
Crank drive test: test stroke 20 mm/ test speed 100 rpm
测试速度104mm/s
曲柄驱动测试：测试行程20mm/测试频率100rpm

2) Mounting in any position
Mounting instructions according to STAB-Spec. 10005593
Waste disposal according to STAB-Spec. 10009375
任意安装位置
安装规范请参考STAB-Spec.10005593
废弃规范请参考STAB-Spec.10009375



STAB-O-SHOC TA20

Dampers with a special piston system

In the STAB-O-SHOC TA20, the purpose of the diaphragm against the outside of the pressure tube is to absorb the additional piston rod

volume for the shortest possible installation length. This provides slip-free force transmission in any mounting orientation. Due to the special piston system with valve plates, the damping forces can be

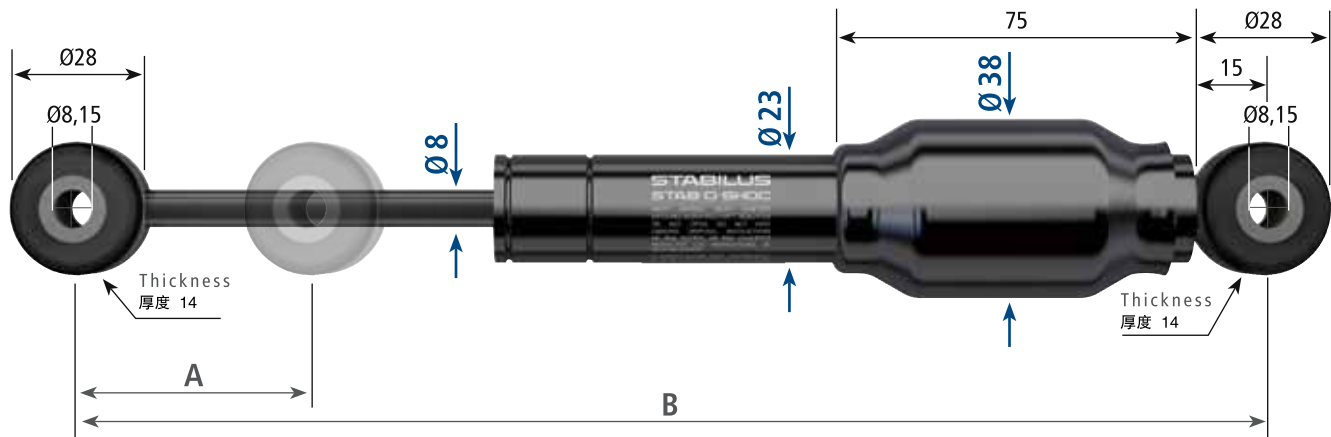
set variably and virtually independently of each other. This damper is also non-pressurized and features instant damping.

特殊活塞系统阻尼器

STAB-O-SHOC TA 20 补偿腔可以更多容纳活塞杆体积，从而满足更短安装长度的要求。无安装方向要求，

拥有阀片的特殊活塞系统，整个阻尼力可以做到线性可控

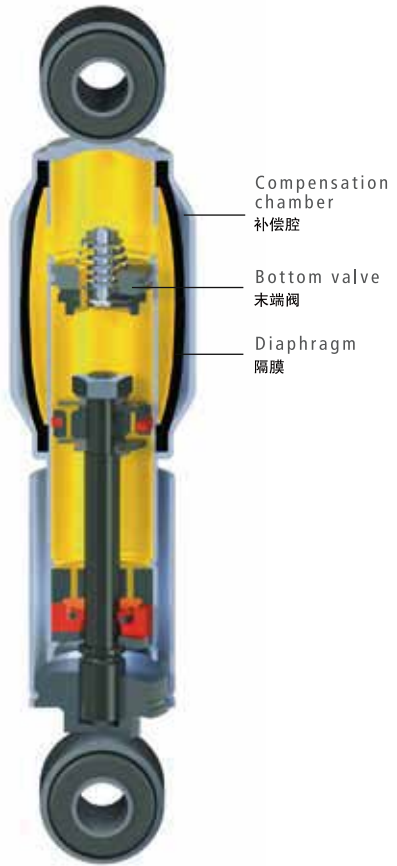
该阻尼器也是无压、即时型



A		B		
Stroke 行程	Extended length 弹伸长度	^{1) 2)} F _r [N]	^{1) 2)} F _D [N]	Ref.-No. 零件号
60	249	100	100	2366YR
		550	550	2424YR
		1000	1000	2426YH
120	369	100	100	2443YK
		550	550	2433YQ
		1000	1000	2456YQ
200	529	100	100	2466YK
		550	550	2474YO
		1000	1000	2476YE

1) Test speed 104 mm/s
Crank drive test: test stroke 20 mm/ test speed 100 rpm
测试速度104mm/s
曲柄驱动测试：测试行程20mm/测试频率100rpm

2) Mounting in any position
Mounting instructions according to STAB-Spec. 10005593
Waste disposal according to STAB-Spec. 10009375
任意安装位置
安装规范请参考STAB-Spec.10005593
废弃规范请参考STAB-Spec.10009375



STAB-O-MAT – Elastic locking gas springs

STAB-O-MAT springs are elastic locking gas springs, especially for variably damped seat height adjustment. STAB-O-MAT gas springs combined with an outer tube are called a STAB-O-MAT column. They are used in applications such as office swivel chairs, task chairs, executive chairs and stools.

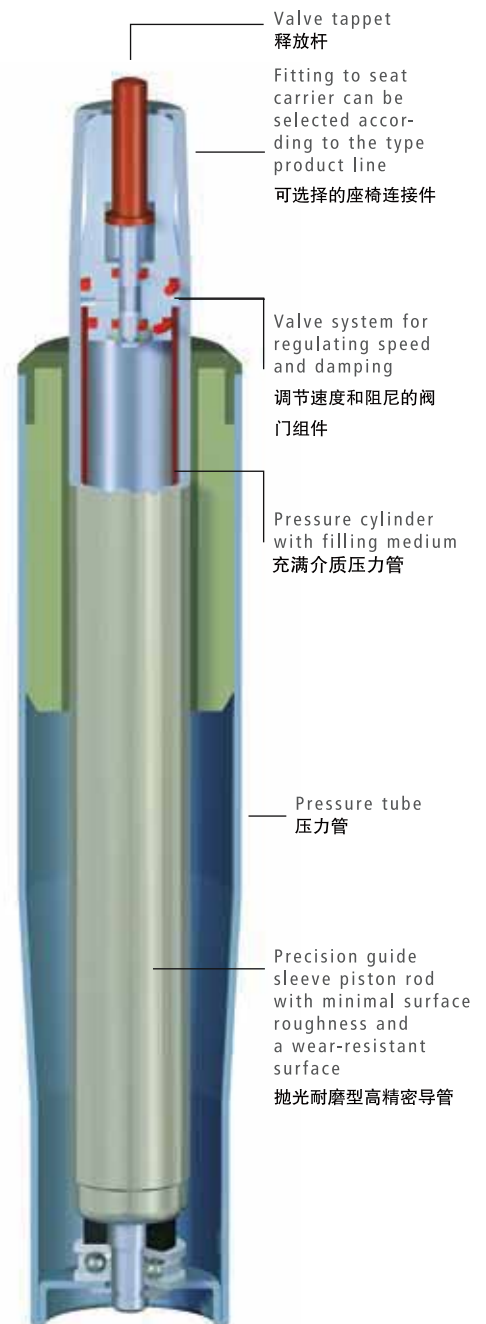
The locking function in the STAB-O-MAT gas springs is achieved through a valve at the pressure tube end. In this case, the piston of the STAB-O-MAT gas spring is closed.

Both the outer tube and the pressure tube have a taper to hold the swivel chair column in the star base and the seat base. In addition to the main characteristics, such as gas spring length and stroke, the outer tube's taper position is an

important characteristic where meeting the standard requirement for seat height is concerned.

Advantages and properties:

- Available as complete columns or individual gas springs
- Available in different lengths and with strokes of 50 to 300 mm
- Rotating and swivel resistant versions
- Telescope column with a disproportionate adjustment range
- Different end position cushioning action systems for more comfortable seating
- Adjustable tappet projection
- Different actuation systems



STAB-O-MAT – 弹性锁止气弹簧

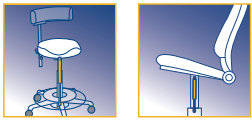
STAB-O-MAT 是一种弹性锁止气弹簧，专门为实现多种、舒适的座椅高度调整而设计的，STAB-O-MAT 气弹簧和外管组合在一起，称之为STAB-O-MAT圆柱。适用于办公转椅、工作椅、医师椅凳。

外支撑套管和压力管与座椅柱子锥形连接，安装在桌椅底座上。

并且气弹簧的主要参数，如长度、行程以及支撑套管的锥形位置是行业标准通用的。

优势及特性：

- 整套的支撑柱或个性化的气弹簧
- 行程50–300mm
- 可旋转或不可旋转
- 加长型的支撑柱
- 不同的末端缓冲系统，满足更舒适需求
- 可调节的释放装置
- 不同释放系统



STAB-O-MAT specialty types

In certain workplaces, seating furniture must fulfill special requirements. For example, the chair should not turn or roll away in the standing position and provide special comfort and durability for continuous use.

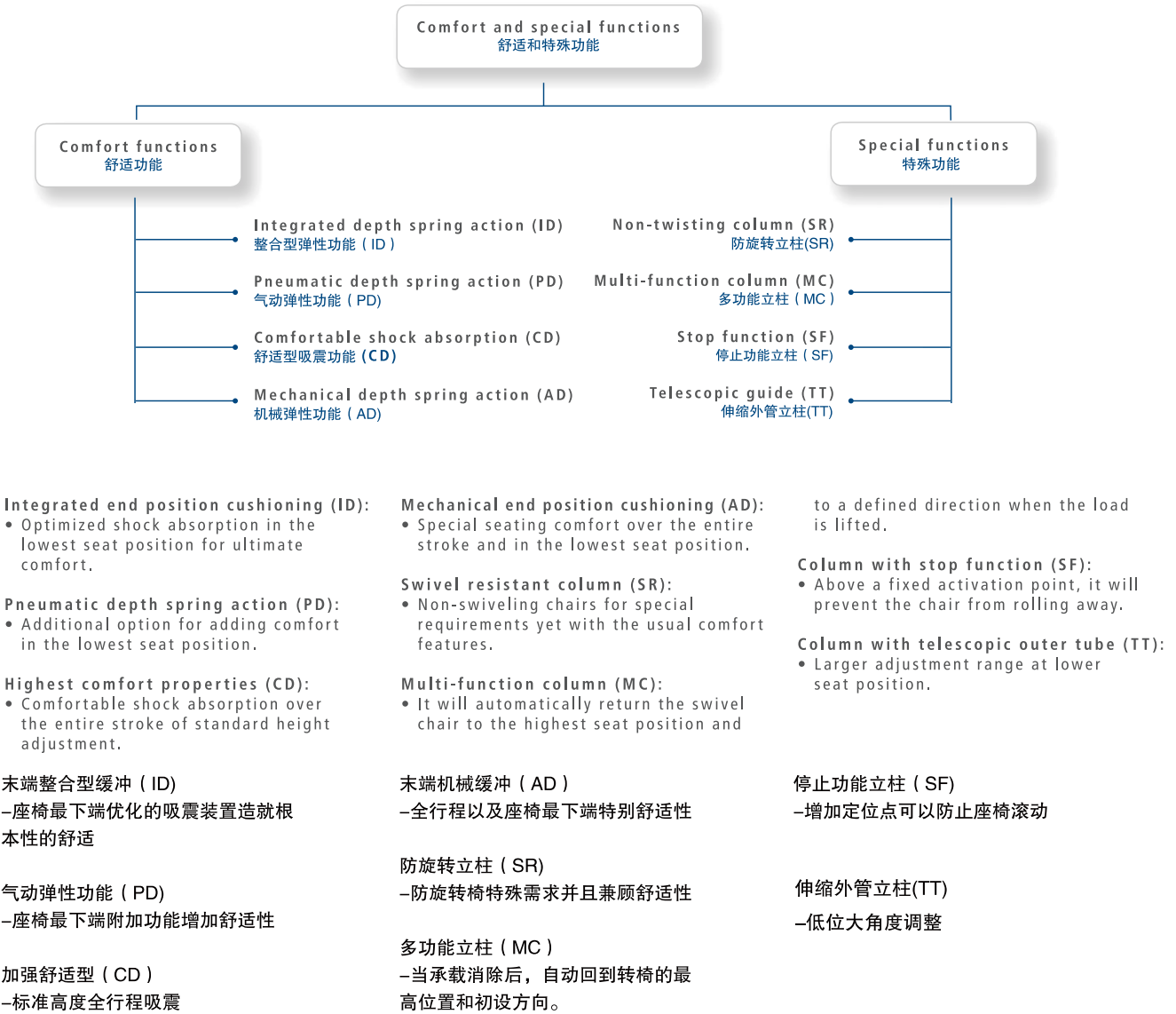
Stabilus offers a broad range of comfort and special functions for these purposes. The modular concept, which allows for a virtually unlimited combination of these functions, together with

practically complete freedom in outer dimensioning will leave no wishes unfulfilled.

STAB-O-MAT 特殊型号

在一些工作场合，我们也融入了桌椅家具的特殊要求，如桌椅不能自旋或滚动，而要持久保持固定性和舒适性，Stabilus就为这些需求提供了广泛的应用。

模块化的概念可以无限的整合这些综合功能，并且可以完全满足各种外形定制化需求。



STAB-O-MAT assembly programme

DIN EN 1335 knows only three seat heights, types A, B and C. Due to the wide variety of seat mechanism and star base variants available on the market, the DIN requirement regarding the design variables for a column (extended length, stroke, taper position on the outer tube, color, etc.) results in more than

2,000 individual gas spring designs that often overlap or only differ by just a few millimeters. In order to provide you, our customer, with a simple and transparent solution for finding the right gas spring, the Stabilus standard product line was developed. All common seat heights can be achieved by combining just

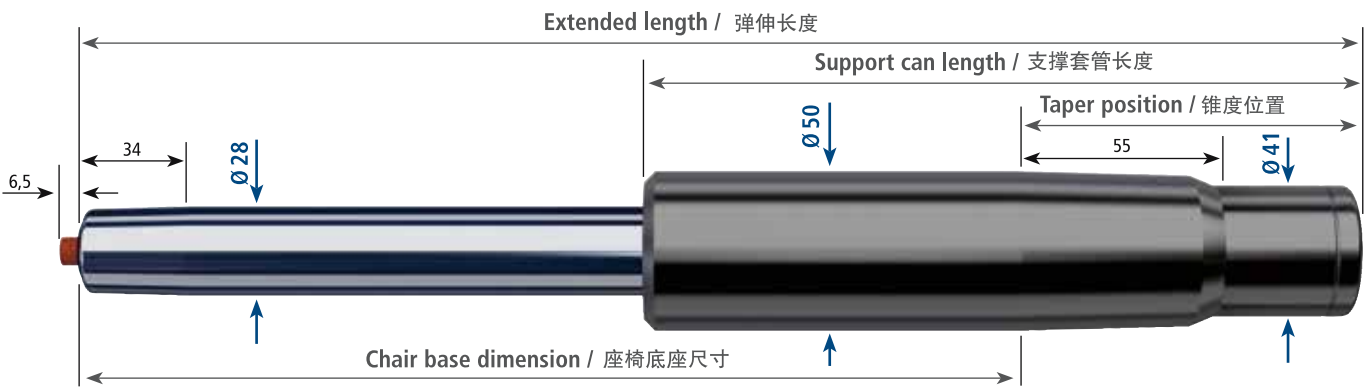
one single gas spring per seat height type with outer tubes featuring different taper positions.

And if you need a customized solution for your chair project, Stabilus application engineers and technicians will be at your disposal.

STAB-O-MAT 目录件

按照DIN EN 1335标准，共有3种座椅高度，型号A、B和C。由于市场上各种座椅结构和底座的不同，对立柱的设计要求（弹伸长度，行程，支撑套管锥度位置，颜色等）也不同，从而可以对应2000多种的气弹簧，而这些气弹簧多是重复的或者仅仅相差几个mm。为给我们客户最简洁的方案，选择到最佳气弹簧，斯泰必鲁斯整合了标准工业线，所有通用座椅高度都可以通过结合单一气弹簧和不同的支撑套管锥度位置来满足。

并且，如果您有更多定制座椅需求，斯泰必鲁斯专业的应用工程师和技术人员随时为您服务。



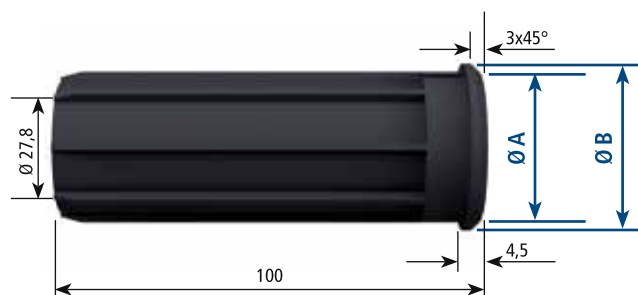
Support can dimensions / 支撑套管尺寸			Column dimensions / 立柱尺寸			
EN 1335 class EN 1335 级别	Length 长度	Taper position 锥度位置	Extended length 弹伸长度	Stroke 行程	Chair base dimensions 座椅底座尺寸	Ref.-No. 零件号
A (Stroke / 行程 120 mm)	220	94	395,5	132,5	169 - 301,5	086772
		104			159 - 291,5	087967
		114			149 - 281,5	088923
		124			139 - 271,5	091552
		164			99 - 231,5	093703
B (Stroke / 行程 100 mm)	200	76	354,5	111,5	167 - 278,5	097766
		100			143 - 254,5	101829
		110			133 - 244,5	103263
		126			117 - 228,5	100634
C (Stroke / 行程 80 mm)	174	76	313,5	90,5	147 - 237,5	092747
		96			127 - 217,5	094898
		104			119 - 209,5	096332

防松螺母固定
推荐扭力：10Nm

For release pin length $6,5^{\pm 1}$
释放阀长度 $6.5^{\pm 1}$



塑料套管



A Diameter of bush 套管直径	B Outer tube diameter 外径	Ref.-No. 零件号
34,2	38	044881
36,2	40	195626
42,2	45	022861
46,2	50	560405

We reserve the right to make modifications. Dimensions in mm.
我们保留进行修改的权利。尺寸单位: mm。

Installation hints and tips on the correct installation of gas springs

■ Application

In their technical design, gas springs can be customized for special applications – on the basis of specifications and drawings. Match your application and requirements with us. Our consultants and application engineers will be glad to help you.

■ Mounting Orientation

If possible, install gas springs so that the piston rod points down in the inactive state – unless they were designed for non-orientation specific installation. This will ensure optimum lubrication of the guide and sealing system at all times.

■ No Jamming

For a long service life, gas springs must not jam or be subjected to bending or lateral forces. We offer suitable end fittings, such as angle joints. They will ensure non-jamming alignment.

■ Functional Safety

The functional safety of a gas spring comes mainly from the smooth piston rod surface and the seals that

keep the gas pressure on the inside. Do not subject gas springs to bending stresses. You should not install gas springs that have been damaged in after-sales mechanical processing. Welding on the gas spring, as well as contamination or paint on the piston rod can cause device failure. Avoid modifications and manipulations, impacts, tensile stress, heating, painting and removal of the print. Be on the safe side: Do not install defective or improperly altered products.

■ Temperature Range

Stabilus gas springs are designed for a default temperature range of -30°C to +80°C. Of course, there are also gas springs for more extreme applications.

■ Life and Maintenance

Gas springs are maintenance-free! They do not require greasing or lubrication. They are designed for their corresponding applications and should work flawlessly for many years.

■ Transportation and Storage

Store gas springs with the piston rod pointing down. Actuate the gas spring after 6 months of storage. Avoid damage: Do not transport gas springs as bulk material. Make sure not to contaminate gas springs with thin packaging film or adhesive tape.

■ Disposal

When gas springs are no longer needed, they should be disposed of in an environmentally correct manner. For this purpose they should be controlled degased, the compressed nitrogen gas bled, and the oil drained. For more specific details, please refer to STAB specification 1000 9375. Please also consider our recycling instructions on our website <http://www.Stabilus.com/service-spare-parts/recycling/>



气弹簧安装建议和提示

■ 应用

在技术设计中，气弹簧可定制进行特殊应用——基于规范和图纸。使您的应用和要求与我们的相符。我们的咨询师和应用工程师很乐意帮助您。

■ 安装方向

如有可能，安装气弹簧时，使非工作状态时活塞杆朝下——安装方向无要求的气弹簧除外。以此确保导向和密封系统始终达到最佳润滑。

■ 无卡滞

在很长的寿命期内，气弹簧不得卡滞或者被施加弯曲或侧向力。我们提供合适的端头接头，比如万向接头。以确保无卡滞对齐。

■ 功能安全

气弹簧的功能安全主要源于活塞杆表面光滑，且密封元件使气压保持在内。

不得对气弹簧施加弯曲应力。不得安装售后机械处理后损坏的气弹簧。在气弹簧上焊接以及活塞杆污染或喷涂会导致装置失效。避免修改和操纵、冲击、张应力、加热、喷涂或印记清除。出于安全考虑，不得安装有缺陷或经不当改变的产品。

■ 温度范围

斯泰必鲁斯气弹簧的默认温度范围为-30℃到+80℃。当然，也有用于更极端应用的气弹簧。

■ 寿命和维护

气弹簧免维护！无需涂脂或润滑。用于相关应用，且能无故障运行多年。

■ 运输和存储

存储气弹簧时，尽量使活塞杆朝下。存储

6个月后，运转气弹簧。避免损害：

不得将气弹簧作为散装材料运输。确保不使气弹簧受到薄包装膜或胶带的污染。

■ 处理

无需使用气弹簧时，应以环保正确的方式进行处理。为此，应对其进行排气，排出压缩氮气，并放干油。更多细节请参见STAB规范1000 9375。

还请参考网站

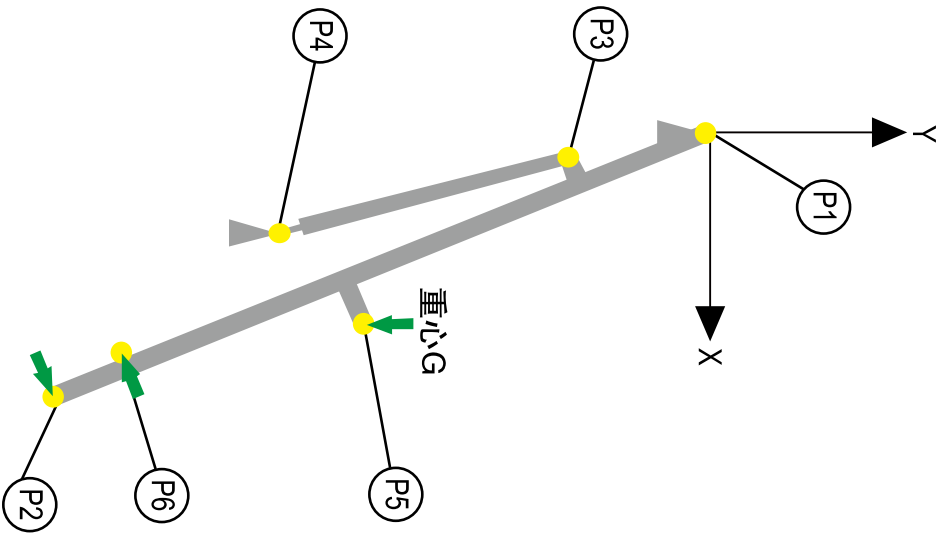
<http://www.Stabilus.com>

service-spare-parts/recycling

上我们关于回收的说明。



STABILUS气弹簧选型参数表



位置	描述	X(横坐标)	Y(纵坐标)
P1	铰点(原点)	0.00	0.00
P2	开启时的手作用点		
P3	气弹簧固定点(安装在门盖上的位置)		
P4	气弹簧固定点(安装在机身上的位置)		
P5	重心位置		
P6	关闭时的手作用点		

坐标描述状态: 静止在全闭合时的状态

最大开启角度:	度
重量:	公斤
应用气弹簧数量:	支

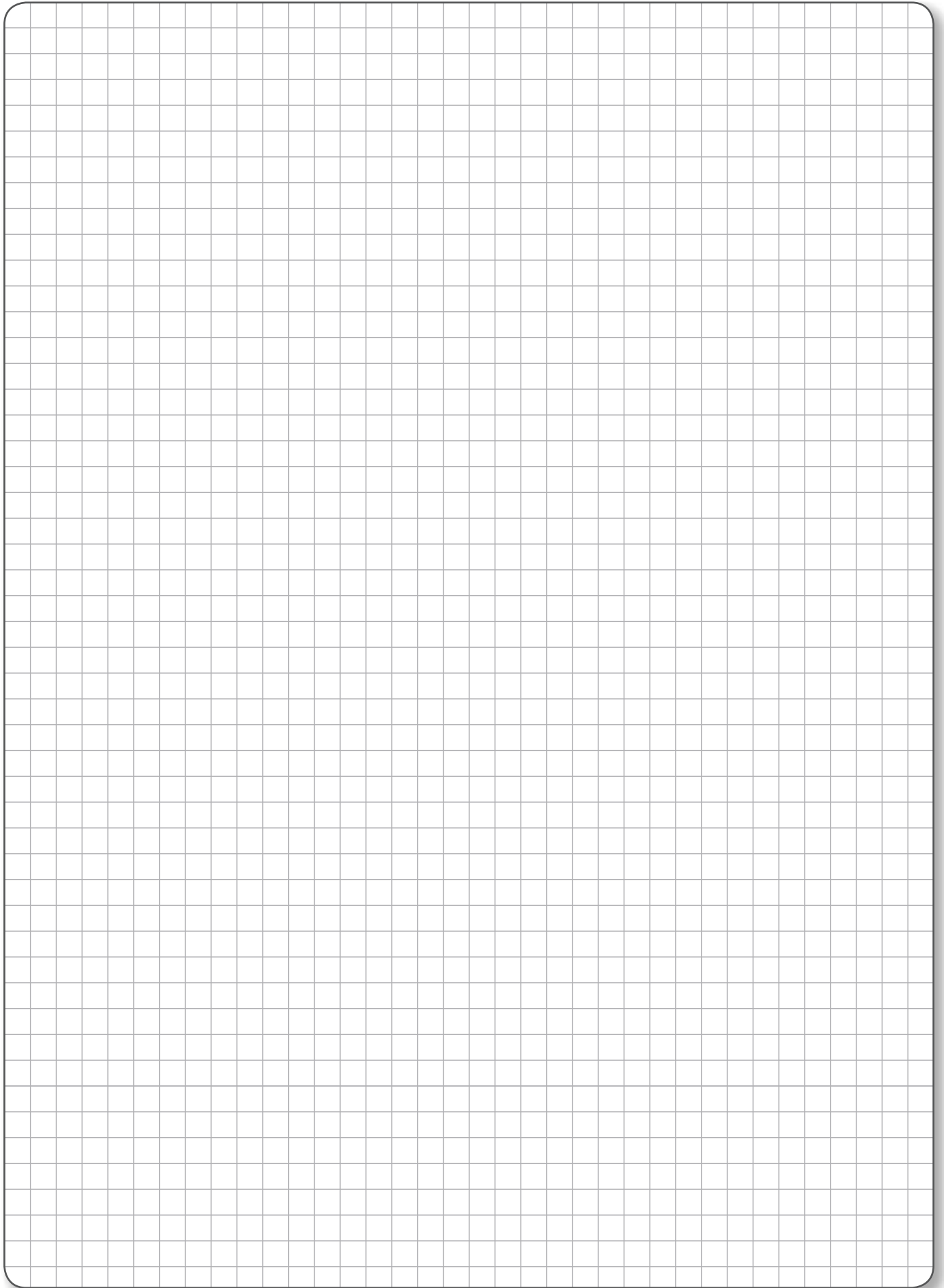
选填 (如果气弹簧的安装位置有空间调整)

气弹簧固定点(安装在门盖上的位置)的调整范围	X(横坐标)	Y(纵坐标)
气弹簧固定点(安装在机身上的位置)的调整范围		

接头形式







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info.cn@stabilus.com

<http://group.stabilus.com/cn>

扫描下方二维码, 与我们联系!

