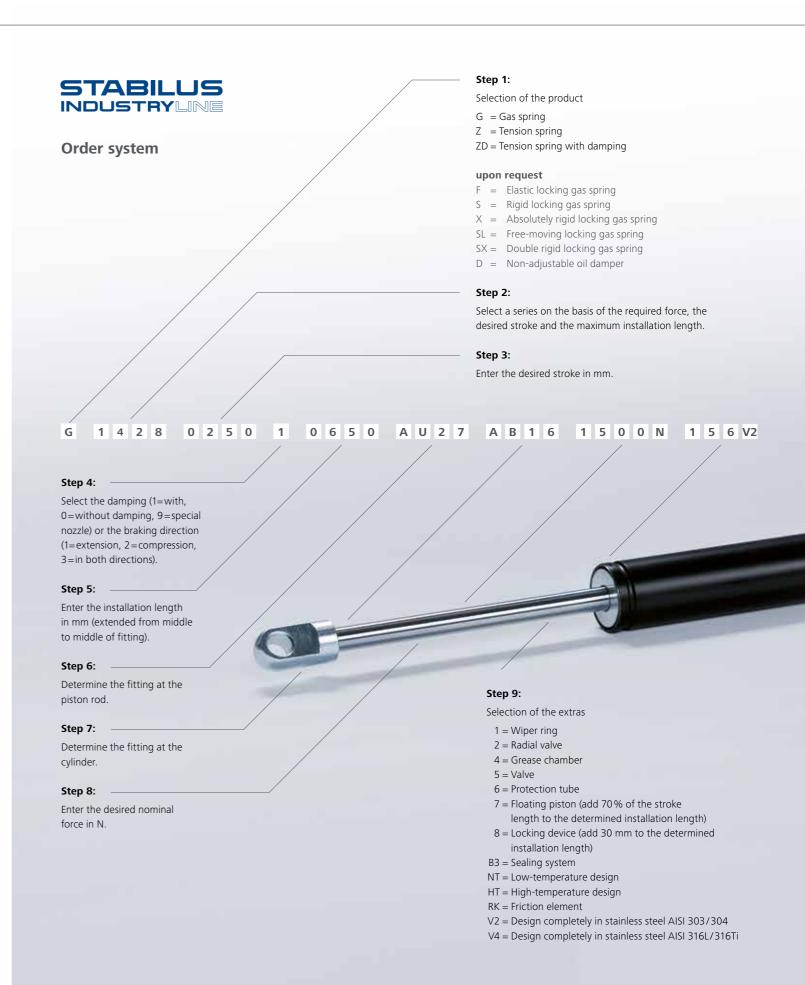
Stabilus IndustryLine gas springs are used for all applications that require the controlled moving and braking of weights without having to apply strong forces.

Gas springs by Stabilus IndustryLine are used in virtually every field today. In commercial vehicles, construction machinery, agricultural and buses as well as in the furniture industry, engineering, for sports, leisure and home appliances, in medical engineering and other areas of industrial and private use. For special applications in medical engineering, the chemicals and food industry and ship-building, we manufacture our products in stainless steel. We produce all types and series in AISI 303/304 and AISI 316L/316Ti. Our gas springs in AISI 316L/316Ti are resistant to chemicals. This catalog will provide you with an overview of our broad product range.

One of the special strengths of Stabilus is the development of customer-specific solutions. A highly-qualified team, state-of-the-art CAD workplaces and high-quality machinery allow us to find solutions for your application challenges and to realize them with short lead times.

The staff of the company Stabilus and your local sales partner will be happy to support you in finding your product.



5







Stabilus gas springs are hydro pneumatic, closed and maintenance-free adjustable elements. The spring force F1 results from the internal pressure in the cylinder, which is generated by the filling medium nitrogen. On the gas spring, this pressure is applied to the cross-section of the piston rod. When no load is applied, the piston rod is always extended.

By pushing in the piston rod, the volume in the cylinder is reduced, and the gas is compressed. Thus the gas spring force increases (progression) depending on the diameter of the piston rod and the volume of the cylinder. Stabilus IndustryLine gas springs contain an oil filling for lubrication and end damping.

Stabilus IndustryLine gas springs are available in steel, AISI 303/304 and AISI 316L/316Ti.

State-of-the-art production sites with CNC-controlled machines are the basis for ultimate safety, quality and durability.



Product range of the STABILUS IndustryLine gas springs

The stock program of the STABILUS IndustryLine allows you to quickly access many gas pressure and gas tension springs in steel and stainless steel, as well as the appropriate connections and fittings.

Our sales team will be pleased to assist you in selecting the right spring for you. You can also configure your own spring. Please follow these instructions:

1. Select the appropriate product, series, material and stroke from the lists. Determine the required force and respect the force range permitted for the spring.

Example

| Туре | Stroke (H) | Length (L) | Thread | Force |
|---------|------------|------------|--------|------------|
| G 10 23 | 150 mm | 345 mm | M8 | 100-1200 N |

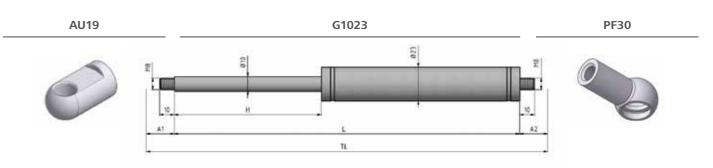
2. Select the desired connections, matching the thread of the gas spring, out of the stock program. In addition a variety of fittings (page 22–25), which can also be used to adjust the total length (TL). Add the installation length of the connections (A) to the length (L) of the gas spring.

Example

| Туре | Thread | Installation length (A) | Thickness (B) | Width (C) | Cross hole Ø (D) | Steel | AISI 303 |
|-------|--------|-------------------------|---------------|-----------|------------------|-------|----------|
| AU 19 | M8 | 19 mm | 10 mm | 14 mm | 8.1 mm | 1 | 1 |
| PF30 | M8 | 30 mm | 13 mm | - | - | 1 | 1 |

 $L \ (length \ gas \ spring) + A1 (connection \ Rod) + A2 (connection \ cylinder) = TL \ (total \ length). \\ Example: 345 \ mm \ (G10-23-150 \ stroke) + 19 \ mm \ (AU19) + 30 \ mm \ (PF30) = 394 \ mm$

Example of item 1 and 2



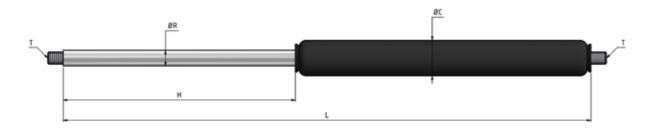
3. Congratulations: You have configurated your desired gas spring. Please do not forget to order the appropriate brackets (page 27–29). Example: BC01 (for eyelet), BA20/K13 (for socket)



4. Please ask your STABILUS IndustryLine dealer for price and delivery time.

STABILUS IndustryLine stands for high quality, innovative products, as well as flexibility and speed in the implementation of your wishes.

10 11



Gas spring – Steel (piston rod: chromium-plated, cylinder: black spray coated)

| Туре | Ø Rod (R) | Ø Cylinder (C) | Stroke (H) | Length (L) | Thread (T) | Force |
|---------------------------------------|-----------|----------------|------------|------------|---------------|---------|
| , , , , , , , , , , , , , , , , , , , | , | , | , | 3, 1, | on both sides | |
| G 04 12 | 4 mm | 12 mm | 30 mm | 92 mm | M3,5 x 5 mm | 10-180N |
| G 04 12 | 4 mm | 12 mm | 50 mm | 132 mm | M3,5 x 5 mm | 10-180N |
| G 04 12 | 4 mm | 12 mm | 60 mm | 152 mm | M3,5 x 5 mm | 10-180N |
| G 04 12 | 4 mm | 12 mm | 80 mm | 192 mm | M3,5 x 5 mm | 10-180N |
| G 04 12 | 4 mm | 12 mm | 100 mm | 232 mm | M3,5 x 5 mm | 10-180N |
| G 04 12 | 4 mm | 12 mm | 120 mm | 272 mm | M3,5 x 5 mm | 10-180N |
| G 04 12 | 4 mm | 12 mm | 150 mm | 332 mm | M3,5 x 5 mm | 10-180N |

| Туре | Ø Rod (R) | Ø Cylinder (C) | Stroke (H) | Length (L) | Thread (T) on both sides | Force |
|---------|-----------|----------------|------------|------------|--------------------------|---------|
| G 06 15 | 6 mm | 15 mm | 50 mm | 132 mm | M5 x 5 mm | 40-400N |
| G 06 15 | 6 mm | 15 mm | 60 mm | 152 mm | M5 x 5 mm | 40-400N |
| G 06 15 | 6 mm | 15 mm | 80 mm | 192 mm | M5 x 5 mm | 40-400N |
| G 06 15 | 6 mm | 15 mm | 100 mm | 232 mm | M5 x 5 mm | 40-400N |
| G 06 15 | 6 mm | 15 mm | 120 mm | 272 mm | M5 x 5 mm | 40-400N |
| G 06 15 | 6 mm | 15 mm | 150 mm | 332 mm | M5 x 5 mm | 40-400N |
| G 06 15 | 6 mm | 15 mm | 200 mm | 432 mm | M5 x 5 mm | 40-400N |

| Туре | Ø Rod (R) | Ø Cylinder (C) | Stroke (H) | Length (L) | Thread (T) on both sides | Force |
|---------|-----------|----------------|------------|------------|-----------------------------|---------|
| G 08 19 | 8 mm | 19 mm | 50 mm | 145 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 60 mm | 165 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 80 mm | 205 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 100 mm | 245 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 120 mm | 285 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 150 mm | 345 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 160 mm | 365 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 200 mm | 445 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 250 mm | 545 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 300 mm | 645 mm | M8 x 10 mm | 50-700N |

| Туре | Ø Rod (R) | Ø Cylinder (C) | Stroke (H) | Length (L) | Thread (T) on both sides | Force |
|---------|-----------|----------------|------------|------------|-----------------------------|-----------|
| G 10 23 | 10 mm | 23 mm | 100 mm | 245 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 150 mm | 345 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 200 mm | 445 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 250 mm | 545 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 300 mm | 645 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 350 mm | 745 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 400 mm | 845 mm | M8 x 10 mm | 100-1200N |

| Туре | Ø Rod (R) | Ø Cylinder (C) | Stroke (H) | Length (L) | Thread (T) on both sides | Force |
|---------|-----------|----------------|------------|------------|-----------------------------|-----------|
| G 14 28 | 14 mm | 28 mm | 100 mm | 248 mm | M10 x 12 mm | 150-2500N |
| G 14 28 | 14 mm | 28 mm | 150 mm | 348 mm | M10 x 12 mm | 150-2500N |
| G 14 28 | 14 mm | 28 mm | 200 mm | 448 mm | M10 x 12 mm | 150-2500N |
| G 14 28 | 14 mm | 28 mm | 250 mm | 546 mm | M10 x 12 mm | 150-2500N |
| G 14 28 | 14 mm | 28 mm | 300 mm | 648 mm | M10 x 12 mm | 150-2500N |
| G 14 28 | 14 mm | 28 mm | 350 mm | 748 mm | M10 x 12 mm | 150-2500N |
| G 14 28 | 14 mm | 28 mm | 400 mm | 848 mm | M10 x 12 mm | 150-2500N |
| G 14 28 | 14 mm | 28 mm | 450 mm | 948 mm | M10 x 12 mm | 150-2500N |
| G 14 28 | 14 mm | 28 mm | 500 mm | 1048 mm | M10 x 12 mm | 150-2500N |

Gas spring – Stainless Steel 303 (piston rod: AISI 303, cylinder: AISI 304)

| Туре | Ø Rod (R) | Ø Cylinder (C) | Stroke (H) | Length (L) | Thread (T) on both sides | Force |
|---------|-----------|----------------|------------|------------|-----------------------------|---------|
| G 06 15 | 6 mm | 15 mm | 80 mm | 192 mm | M5 x 7 mm | 40-400N |
| G 06 15 | 6 mm | 15 mm | 100 mm | 232 mm | M5 x 7 mm | 40-400N |
| G 06 15 | 6 mm | 15 mm | 150 mm | 332 mm | M5 x 7 mm | 40-400N |

| Туре | Ø Rod (R) | Ø Cylinder (C) | Stroke (H) | Length (L) | Thread (T) on both sides | Force |
|---------|-----------|----------------|------------|------------|-----------------------------|---------|
| G 08 19 | 8 mm | 19 mm | 80 mm | 205 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 100 mm | 245 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 120 mm | 285 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 150 mm | 345 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 200 mm | 445 mm | M8 x 10 mm | 50-700N |
| G 08 19 | 8 mm | 19 mm | 250 mm | 545 mm | M8 x 10 mm | 50-700N |

| Туре | Ø Rod (R) | Ø Cylinder (C) | Stroke (H) | Length (L) | Thread (T) on both sides | Force |
|---------|-----------|----------------|------------|------------|-----------------------------|-----------|
| G 10 23 | 10 mm | 23 mm | 100 mm | 245 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 150 mm | 345 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 200 mm | 445 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 250 mm | 545 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 300 mm | 645 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 350 mm | 745 mm | M8 x 10 mm | 100-1200N |
| G 10 23 | 10 mm | 23 mm | 400 mm | 845 mm | M8 x 10 mm | 100-1200N |

You could not realize your desired gas spring with our stock program?

No problem. Our warehouse program is only a small part of our product portfolio. Send us your ideas, data about the product, or your application. We support you in the design of the appropriate gas spring, and manufacture the right product for you quickly and cost-effectively.

12