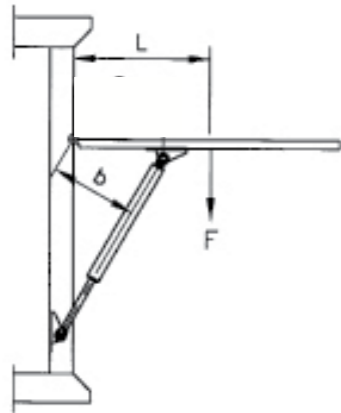


Gaysan gas springs

Strength calculation

It is possible to make a simple calculation, who shows which gas spring to use on a top-hung flap, for example.

Recommended mounting distance	
Total length, mm	b = mm
445	125
500	155
650	200
750	245



The data to be used

F= flap weight (kg)
 L= Distance between center of gravity to the center of rotation
 b= Distance between the gas spring to the center of rotation
 n= Numbers of gas springs
 S= 11 (Safety factor)

$$\text{Gas spring force} = \frac{F \times L \times S}{b \times n}$$

Example:

Top hung flap: 38 kg.

Distance between center of gravity to the center of rotation :
 500 mm

Distance between the gas spring to the center of rotation:
 200 mm

$$\text{Gas spring strength} = \frac{38 \times 500 \times 11}{200 \times 2} = 522,5 \text{ Newton}$$

Remember to mount the gas spring with the piston rod downward.

Accessories

<p>320032 Mounting, complete in plastic-treated aluminium</p>	<p>320033 U-bracket with bolt and lock washer</p>	<p>320034 Gas spring bracket with lock washer</p>	<p>A: B: C: D:</p>
			<p>320035 A: Ballhead M6 small 320041 A: Ballhead M8 big 320037 B: Ball bolt M8 small 320042 B: Ball bolt M8 big 320039 C: Ball joint M8 320040 C: Ball joint M10 320047 D: Eye M8/8, 1mm 320045 D: Eye M10/8, 1mm</p>

Welcome to Bevola

Bevola has the widest product platform for truck and trailer bodybuildingparts on the market. We create solutions through our own products, our versatile production facilities and a wide range of quality agencies.

[Read more about www.bevola.com](http://www.bevola.com)

Gaysan gas springs



Wide assortment and new opportunities

Introducing GAYSAN gas springs



Gaysan has over 30 years experience in producing high quality gas springs and a annual production of more than 10 mil. gas springs.

Gaysan and a few other manufacturers have the quality (VDA6.1; DIN EN ISO / 16949) that is required to be allowed to supply the automotive-, fly-, ship-, machinery- or furniture industry.

Gaysan is the main supplier for VW and Opel in Germany.

A special surface treatment of the piston rod, prevents it from corrode. The life of these treated piston rods are 100% longer than similar competing chromed piston rods. An optimized finishing process leads to more corrosion resistant pressure pipes for longer longevity.

The materials used in Gaysans gas springs, are leading to a very stable force in temperature ranges between -30°C and +80°C.

With flexible manufacturing machines and processes, Gaysan can produce a wide range of types and units. Therefor Bevola is able to deliver Gaysan's program to all customers - large and small - with very competitive delivery times.

Gaysan's program offers solutions for all needs and environments with unique designed gas springs in various colors, materials and with special plastic end caps.



Design

The gas springs consists of a steel pressure pipe and a piston rod, which is equipped with a valve seat in the pressure pipe sender. The valve seat has a flow opening which gives the opportunity to let the gas in the pressure tube to pass.

Construction

It is recommended to mount the gas spring so that the piston rod is pointing down. The result is the lubrication of the seal and also the piston rod at eject. The gas springs comes standard with an eye-connection or with ball head pin. Make sure that the gas spring isn't wedged or subjected to lateral influences when mounting. Similarly, the piston rod shall be protected from impact and dirt.

Art.No	Ref.No.	Spring Force Newton	Total length A mm	Compressed B mm	Stroke length C mm	Body D1 mm	Rod D2 mm
386313	2887	400	145	95	50	15	6
320005	2802I	500	235	160	75	19	8
320003	2801	150	285	185	100	15	6
320004	2802	520	345	220	125	22	10
320082	2885	50	385	235	150	15	6
320006	2804	150	385	235	150	19	8
320008	2810	250	445	270	175	22	10
320009	2812	400	445	270	175	22	10
320010	2814	650	445	270	175	22	10
320011	2820	250	500	300	200	22	10
320013	28205	350	500	300	200	22	10
320014	2821	400	500	300	200	22	10
320015	2822	500	500	300	200	22	10
320017	2824	650	500	300	200	22	10
320018	2826	750	500	300	200	22	10
320019	2828	1000	500	300	200	22	10
320060	28289	1200	500	300	200	28	14
320062	282903	120	585	335	250	19	8
320061	28290	150	585	335	250	19	8
320007	2806	290	600	350	250	19	8
320020	2829	750	600	350	250	22	10
320022	2831	250	650	400	250	22	10
320023	2832	500	650	400	250	22	10
320024	2834	750	650	400	250	22	10
320025	2836	1000	650	400	250	22	10
320026	2844	750	750	450	300	28	14
320027	2846	1000	750	450	300	28	14
320028	2848	1250	750	450	300	28	14
320029	2850	1500	750	450	300	28	14
320030	2850I	1750	750	450	300	28	14
320031	2851	2000	750	450	300	28	14
320056	2852	2500	750	450	300	28	14
320104	2886	300	800	450	350	22	10

