

Balancing light and shade

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Glass facades are in vogue. But inside buildings, large glass surfaces can only be truly enjoyed if there is appropriate sun protection. This is especially important in offices. Sunlight might reflect annoyingly off monitor screens and light reflecting off window panes may strain the eye, yet being able to look outside contributes immensely to a pleasant working environment. Angst+Pfister gas springs enable sunblinds made by the Bremetall company to be adjusted to your personal comfort.

Bremetall Sonnenschutz G.m.b.H. specializes in outdoor textile sun protection technology. It supplies its products throughout Austria through qualified specialty dealers. The company also successfully exports its products throughout Europe and the USA. Its product range encompasses folding-arm awnings and external window blinds, various winter garden shading systems, universal wind and privacy screening, as well as customized solutions. Bremetall offers the widest range of outdoor textile sun protection products in Austria. Approximately 50 employees at the main factory in Thaur near Innsbruck make sure that all plastic, metal and textile components are perfectly shaped, cut and fitted.

Comfort and ambiance

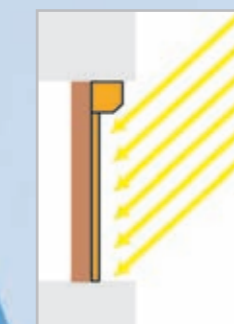
External roller blinds are the classic sun-blind solution. Retractable exterior window shades are an extremely comfortable combination of drop-arm awnings and external roller blinds. Thanks to the stable extension arm, the view outside remains undisturbed, but the window pane is shaded over the entire surface. The awnings offer excellent protection against the sun, glare and heat. The extension arms can be equipped either with torsion springs or gas springs.

In exposed installation areas and for year-round glare protection and privacy shading, awnings with gas spring extenders are the optimal solution. APSOvib™ type 6/15 gas springs supplied by Angst+Pfister with special eye type 16-1-111-96-A17-B17 and various thrust forces are employed in such awnings. When lowered by the lever, the textile fabric extends outward like a canopy. The advantage is that when you start to close the awning, it blocks out the sun much sooner than a vertical blind, while still allowing you to enjoy the view beneath the canopy without being blinded by the sun's glare. The outwardly extended surface makes the awning more vulnerable to the wind, but the extension force of the gas springs on the left and right of the folding arm counteract that.

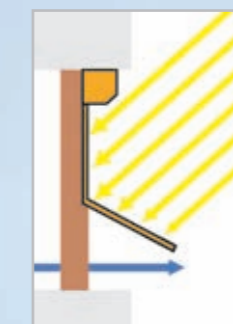
Awnings are classified into wind resistance categories. The choice of gas spring can improve the wind-resistance rating. The high extension force of the gas springs creates more tension in the awning, thus ensuring greater stability against the wind.



APSOvib™ type 6/15 gas spring



External roller blind



Retractable exterior window shade

against the end positions of the gas spring. The end-position damping is determined by the amount of damping oil filled inside the gas spring.

Wide range of applications

The range of applications for gas springs is virtually unlimited. Typical application areas are:

- Hatchbacks and engine hoods, luggage hatches on tour buses, fold-out canopies for vending vehicles.
- Skylights.
- Kitchen furniture, hospital beds, operating tables and tanning beds.
- Coverings and casings of photocopiers, swivel arms for computer monitors.
- Pivot mechanisms for safety and noise protection hoods for lathes and milling machines.

Please contact our specialists for further information.

Winning aspects

The following advantages enabled Angst+Pfister to score points with its special gas springs for the complete series:

- Customized measurements: Since all adjacent components were already being produced in series with specific tools, the gas spring had to fit exactly. This was only possible with a customized gas spring with special dimensions.
- High corrosion resistance: This is assured by high accuracy in production and by coating the individual components in the supplier's factory.
- High-grade precision coating of all components.
- Highly gas-tight.
- Long service life for outdoor use.
- Attractive bulk price.

Gas springs of identical size are used on all widths of awnings. The extension force is adapted to the width. Technical advice, fast provision of samples, supply flexibility, high product quality and the ability to deliver specially ordered gas springs with other extension forces on short notice were prime reasons why Angst+Pfister was chosen as a supply partner.

Simply indispensable

A gas spring is a cylinder filled with gas. The higher the gas pressure, the greater the force the piston pushes out of the cylinder tube. This extension force is used to lift loads or to aid the lifting process. Angst+Pfister offers gas springs in various dimensions with differing pressures and made of diverse materials, such as stainless steel. Depending on the application, end-position damping is used, which dampens the piston stroke

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