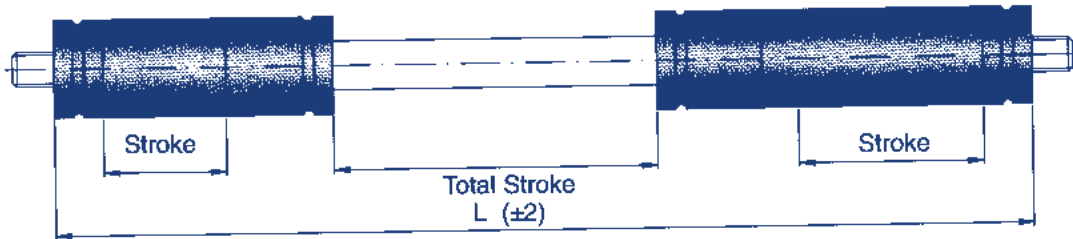
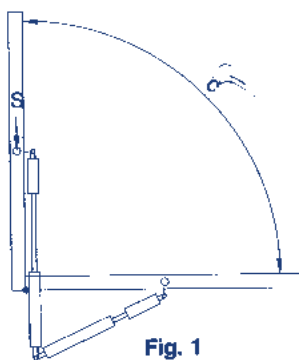




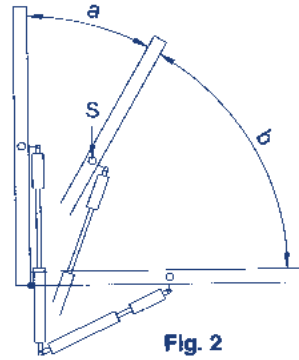
Gas spring with double stroke



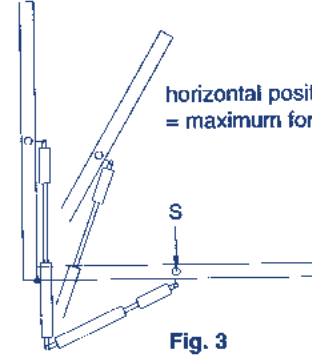
Vertical position
minimum force



short side
compressed



horizontal position
= maximum force



Use/Application

This gas spring is equipped with two cylinders charged at different forces which thus covers two force ranges.

These springs are mainly used on heavy flaps with large opening angles, as in such cases a low starting force and a high ending force is required.

The compression of the spring causes a jumping progression which adjusts much better to the flap's opening and closing curve.

Figure 1

In extended position only a low spring force is required as the point of gravity S is located very near to the pivot point.

Figure 2

in this position half of the flap's weight is effective.

The gas spring's shorter cylinder is compressed, the force of the other cylinder, then takes effect.

Figure 3

In horizontal position the gas spring is compressed.

Depending on the flap's weight the shorter cylinder is compressed (range "a"), and then the other cylinder is also compressed (range "b").