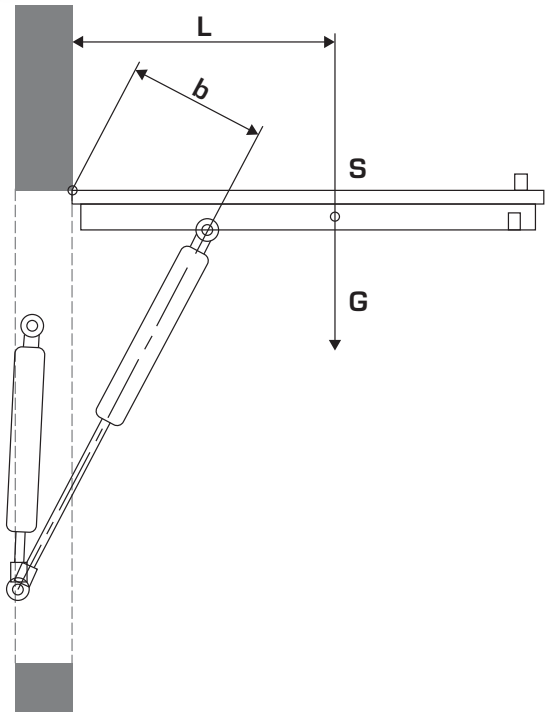
TRISCAN
smartparts

CALCULATION OF PRESSURE ON GAS SPRINGS



$$F1 = \frac{G \times L \times 11}{n \times b}$$

G = Weight of movable part (kg)

S = Centre of gravity on the movable part

L = Horizontal distance of centre of gravity/ fulcrum

b = Parallel Proximity gas spring/ fulcrum

n = Number of gas springs

11 = Conversion factor kg to N + safety factor

Example:

Weight of movable part: 25 kg
Distance b: 110 mm
Number of gas springs: 2
Distance L: 400 mm

→ $\frac{25 \times 400 \times 11}{2 \times 110}$

Gas springs must have a pressure of 500 N

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