Gas spring, small dimension and low force

Description:

The gas springs are colour-coded according to the spring force rating ranges 18-35-50-70 daN. All springs, regardless of their spring force ratings, are of the same design. The differing force ratings result exclusively from the differing charge pressures.
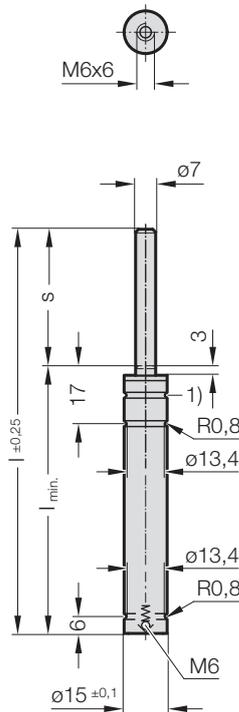Gas can be added or reduced from below.

Note:

Worn gas springs cannot be repaired, they have to be replaced completely.
Pressure medium: Nitrogen N_2
Max. filling pressure: 180 bar
Min. filling pressure: 20 bar
Working temperature: 0°C to +80°C
Temperature related force increase: ± 0.3%/°C
Max. recommended extensions per minute: approx. 100 to 150 (at 20°C)
Max. piston rod speed: 1.8 m/s

Spring forces as per spring diagram.
Upon customers request, also available unfilled, Order No 2482.76.00000. ..., Colour: black
In the case of a hose connection, the connection fitting 2480.00.22.06.06.10 (24° cone micro) must be used.

1) For spring force labelling and mounting additional wipers

2482.76.

PED
2014/68/EU
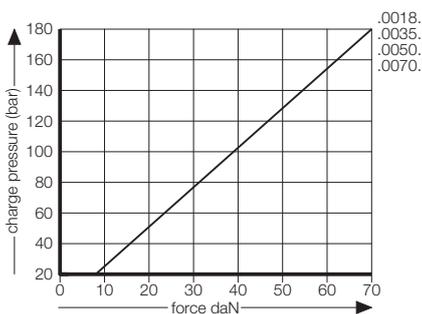
2482.76.   Gas spring, small dimension and low force

Order No*	s (Stroke max.)	l	l min.	Gas volume [l]	Weight [kg]
2482.76.☐☐☐☐☐.007	7	56	49	0.002	0.04
2482.76.☐☐☐☐☐.010	10	62	52	0.002	0.05
2482.76.☐☐☐☐☐.013	12.7	67.4	54.7	0.003	0.05
2482.76.☐☐☐☐☐.015	15	72	57	0.003	0.05
2482.76.☐☐☐☐☐.019	19	80	61	0.003	0.05
2482.76.☐☐☐☐☐.025	25	92	67	0.004	0.06
2482.76.☐☐☐☐☐.038	38	118	80	0.005	0.07
2482.76.☐☐☐☐☐.050	50	142	92	0.007	0.08
2482.76.☐☐☐☐☐.063	63.5	172	108.5	0.008	0.09
2482.76.☐☐☐☐☐.075	75	195	120	0.01	0.1
2482.76.☐☐☐☐☐.080	80	205	125	0.01	0.1
2482.76.☐☐☐☐☐.100	100	245	145	0.012	0.12
2482.76.☐☐☐☐☐.125	125	295	170	0.015	0.14

*complete with initial spring force
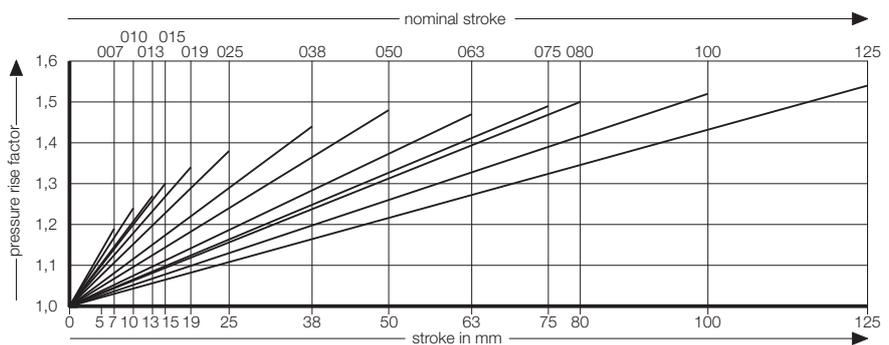Spring force marking: Initial spring force [daN] - Pressure [bar] - Colour:
.00018. -   45 - green
.00035. -   90 - blue
.00050. - 135 - red
.00070. - 180 - yellow

Initial spring force
versus charge pressure

Spring force Diagram displacement versus stroke rise

Pressure rise factor accounts for displacement but not external influences!