

Gas spring, small dimension and low force

Description:

The gas springs are colour-coded according to the spring force rating ranges 50–100–150–200 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.

Do take into consideration the colour-coded pressure rating during repair work and recharging.

Note:

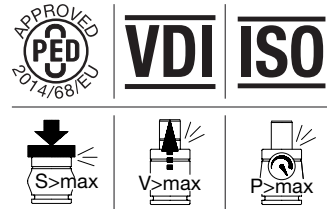
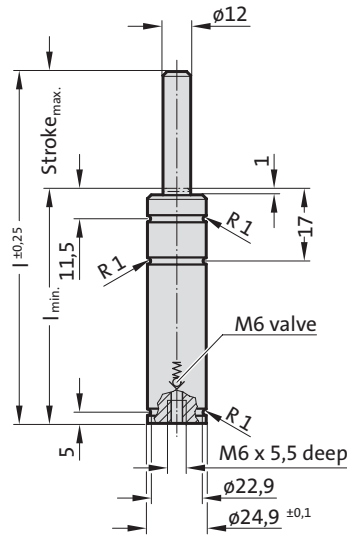
Order No for spare parts kit: 2480.21.00150

- Pressure medium: Nitrogen N₂
- Max. filling pressure: 180 bar
- Min. filling pressure: 25 bar
- Working temperature: 0°C to +80°C
- Temperature related force increase: ± 0.3%/°C
- Max. recommended extensions per minute: approx. 80 to 100 (at 20°C)
- Max. piston speed: 1.6 m/s

Spring forces as per spring diagram.

Upon customers request, also available unfilled, Order No 2480.21.00000..., Colour: black

2480.21.



2480.21. Gas spring, small dimension and low force

Order No*	Stroke _{max.}	l	l _{min.}
2480.21.□□□□□.010	10	62	52
2480.21.□□□□□.013	12.7	67.4	54.7
2480.21.□□□□□.015	15	72	57
2480.21.□□□□□.016	16	74	58
2480.21.□□□□□.025	25	92	67
2480.21.□□□□□.038	38.1	118.2	80.1
2480.21.□□□□□.050	50	142	92
2480.21.□□□□□.063	63.5	172	108.5
2480.21.□□□□□.080	80	205	125
2480.21.□□□□□.100	100	245	145
2480.21.□□□□□.125	125	295	170

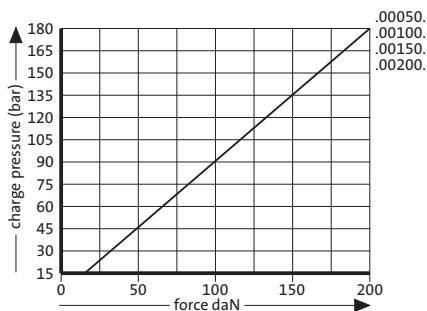
*complete with initial spring force

Spring force marking:

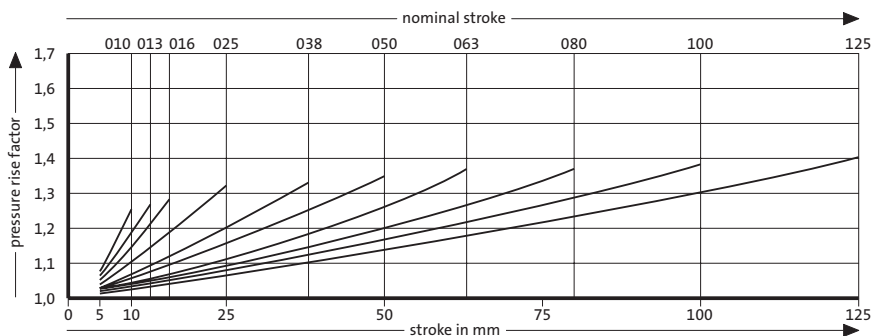
Initial spring force [daN] - Pressure [bar] - Colour:

- .00050. - 45 - green
- .00100. - 90 - blue
- .00150. - 135 - red
- .00200. - 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!