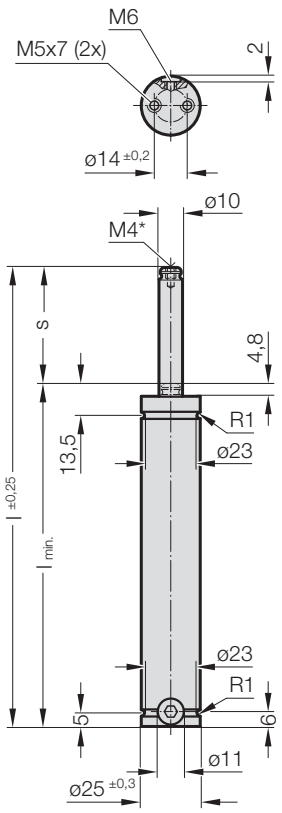
Compact gas spring

Note:
Initial spring force at 150 bar = 425 daN

Worn gas springs cannot be repaired, they have to be replaced completely.

Pressure medium: Nitrogen N_2
Max. filling pressure: 150 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. 50 to 100 (at 20°C)
Max. piston rod speed: 0.8 m/s
* not for stroke 10

2490.15.00420.

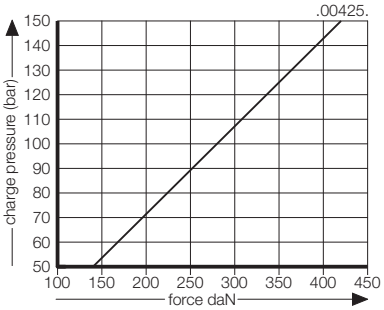


PED 2014/68/EU

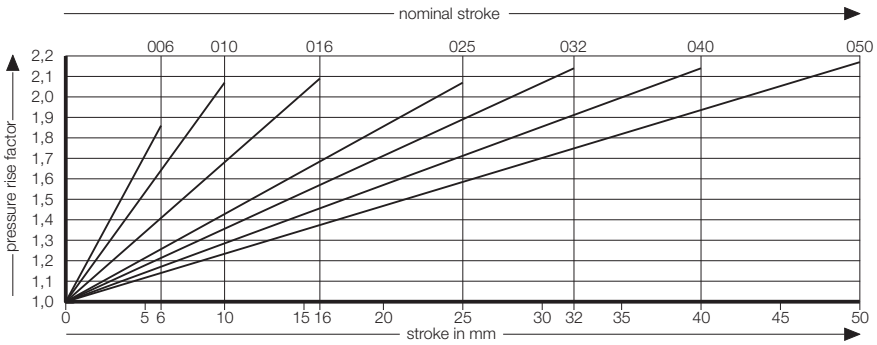
2490.15.00420. Compact gas spring

Order No	s (Stroke max.)	$l_{min.}$	l	Gas volume [l]	Weight [kg]
2490.15.00420.006	6	50	56	0.004	0.13
2490.15.00420.010	10	60	70	0.006	0.16
2490.15.00420.016	16	75	91	0.01	0.18
2490.15.00420.025	25	95	120	0.016	0.23
2490.15.00420.032	32	108	140	0.019	0.24
2490.15.00420.040	40	125	165	0.024	0.28
2490.15.00420.050	50	145	195	0.03	0.31

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!