

# Compact gas spring

**Note:**

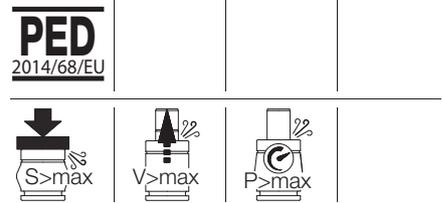
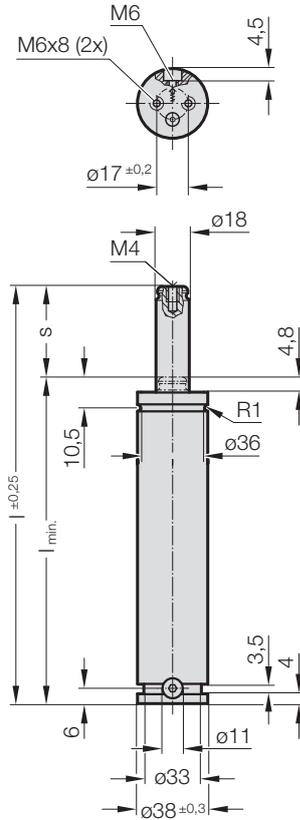
Initial spring force at 150 bar = 1060 daN

Order No for spare parts kit: 2490.15.01000  
(Stroke length 6 not repairable)

Gas spring without valve  
Order No (example): 2490.15.01000. .P

Pressure medium: Nitrogen N<sub>2</sub>  
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

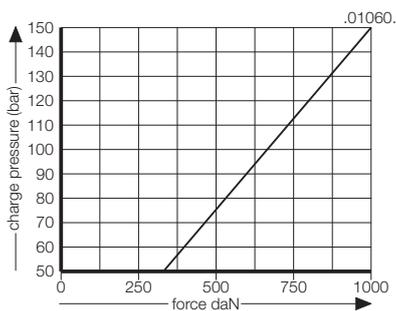
**2490.15.01000.**



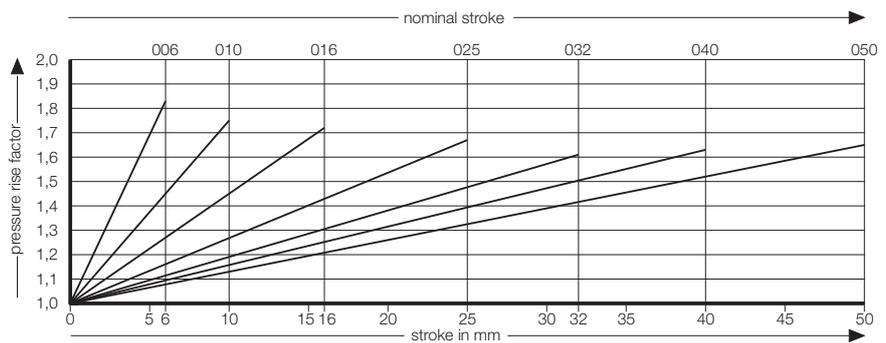
**2490.15.01000. Compact gas spring**

Order No	s (Stroke <sub>max.</sub> )	l <sub>min.</sub>	l	Gas volume [l]	Weight [kg]
2490.15.01000.006	6	55	61	0.011	0.33
2490.15.01000.010	10	68	78	0.019	0.38
2490.15.01000.016	16	84	100	0.031	0.44
2490.15.01000.025	25	110	135	0.05	0.53
2490.15.01000.032	32	135	167	0.069	0.63
2490.15.01000.040	40	155	195	0.084	0.7
2490.15.01000.050	50	180	230	0.103	0.79

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!