

Compact gas spring

Note:

Initial spring force at 150 bar = 7540 daN

Order No for spare parts kit: 2490.15.07500

Gas spring without valve

Order No (example): 2490.15.07500 . P

Pressure medium: Nitrogen N₂

Max. filling pressure: 150 bar

Min. filling pressure: 20 bar

Working temperature: 0°C to +80°C

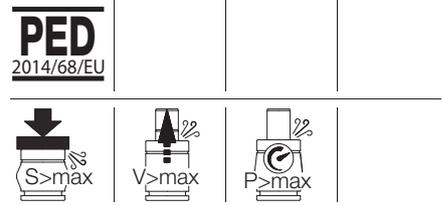
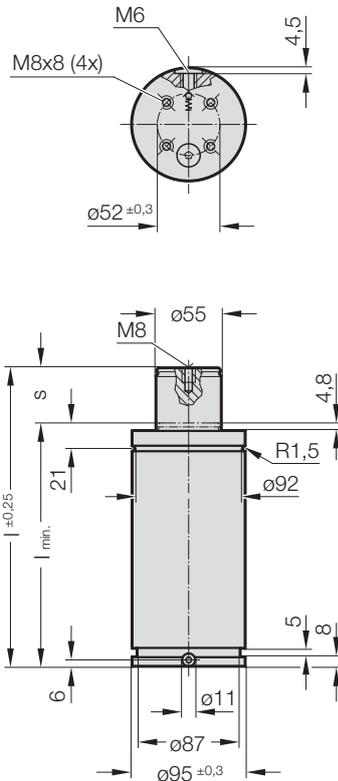
Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

approx. 80 to 100 (at 20°C)

Max. piston rod speed: 0.8 m/s

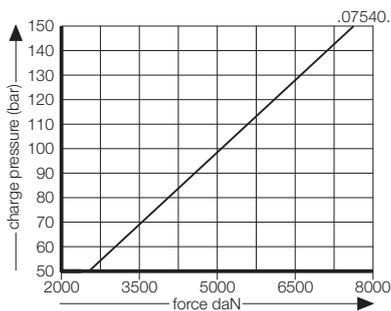
2490.15.07500.



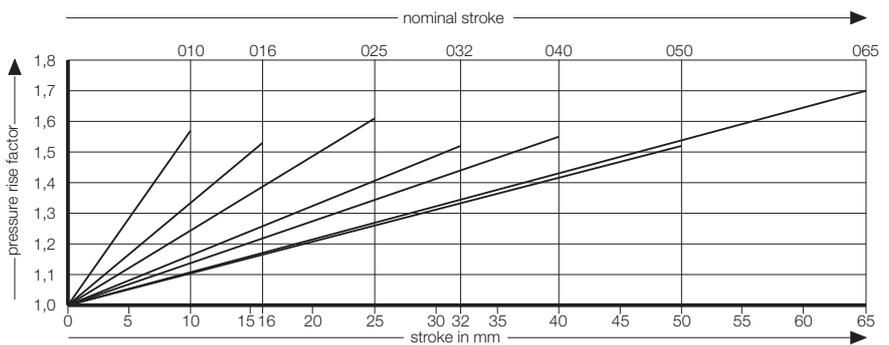
2490.15.07500. Compact gas spring

Order No	s (Stroke _{max.})	l _{min.}	l	Gas volume [l]	Weight [kg]
2490.15.07500.010	10	80	90	0.16	2.89
2490.15.07500.016	16	100	116	0.269	3.26
2490.15.07500.025	25	120	145	0.382	3.64
2490.15.07500.032	32	150	182	0.542	4.18
2490.15.07500.040	40	170	210	0.654	4.56
2490.15.07500.050	50	205	255	0.844	5.19
2490.15.07500.065	65	214	279	0.91	5.46

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!