

Compact gas spring

Note:

Initial spring force at 150 bar = 18410 daN

Order No for spare parts kit: 2490.15.18300

Gas spring without valve

Order No (example): 2490.15.18300. .P

Pressure medium: Nitrogen N₂

Max. filling pressure: 150 bar

Min. filling pressure: 20 bar

Working temperature: 0°C to +80°C

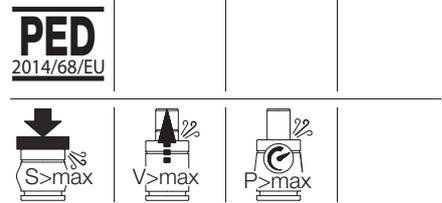
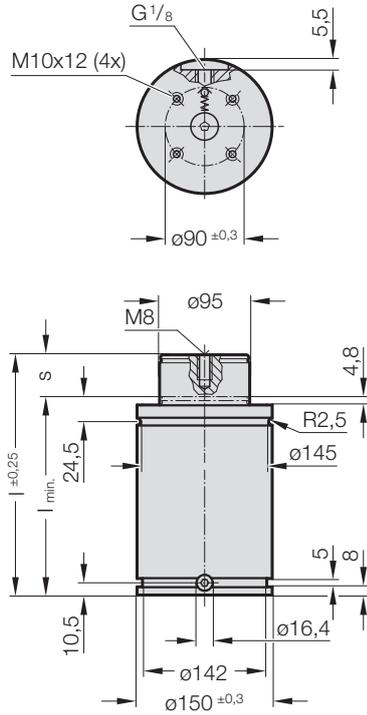
Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

approx. 50 to 100 (at 20°C)

Max. piston rod speed: 0.8 m/s

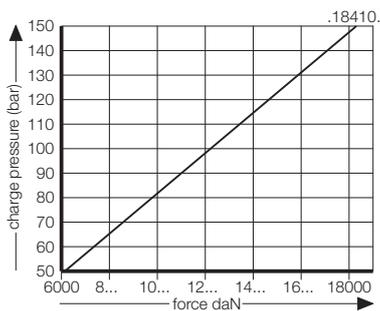
2490.15.18300.



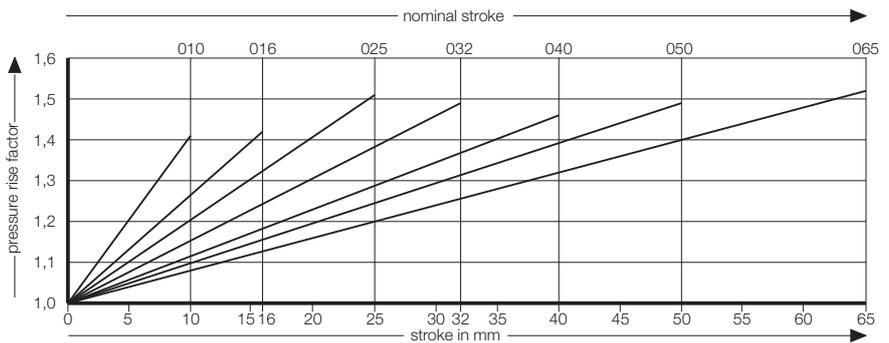
2490.15.18300. Compact gas spring

Order No	s (Stroke _{max.})	l _{min.}	l	Gas volume [l]	Weight [kg]
2490.15.18300.010	10	100	110	0.493	9.31
2490.15.18300.016	16	120	136	0.765	10.28
2490.15.18300.025	25	140	165	1.05	11.3
2490.15.18300.032	32	165	197	1.388	12.51
2490.15.18300.040	40	195	235	1.791	13.93
2490.15.18300.050	50	220	270	2.142	15.19
2490.15.18300.065	65	258	323	2.675	17.1

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!