

Compact gas spring

Note:

Initial spring force at 150 bar = 4675 daN

Order No for spare parts kit: 2490.15.04700

Gas spring without valve

Order No (example): 2490.15.04700. .P

Pressure medium: Nitrogen N₂

Max. filling pressure: 150 bar

Min. filling pressure: 20 bar

Working temperature: 0°C to +80°C

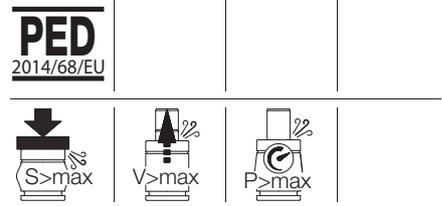
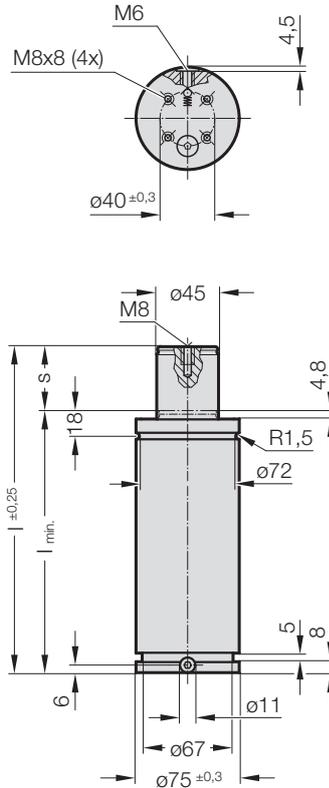
Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

approx. 80 to 100 (at 20°C)

Max. piston rod speed: 0.8 m/s

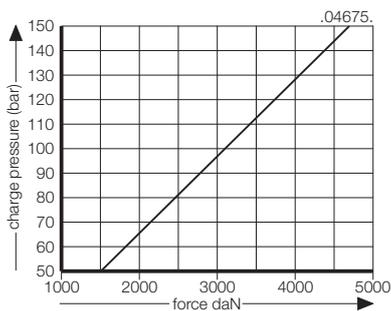
2490.15.04700.



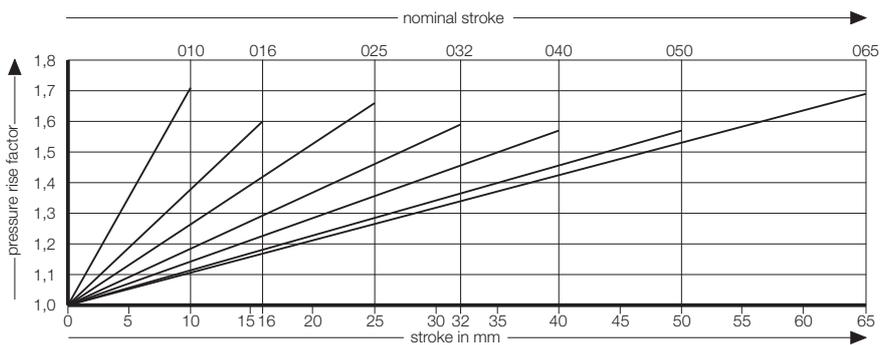
2490.15.04700. Compact gas spring

Order No	s (Stroke _{max.})	l _{min.}	l	Gas volume [l]	Weight [kg]
2490.15.04700.010	10	70	80	0.086	1.62
2490.15.04700.016	16	90	106	0.154	1.85
2490.15.04700.025	25	110	135	0.224	2.1
2490.15.04700.032	32	135	167	0.3	2.39
2490.15.04700.040	40	160	200	0.394	2.68
2490.15.04700.050	50	190	240	0.496	3.03
2490.15.04700.065	65	208	273	0.566	3.3

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!