

Compact gas spring

Note:

Initial spring force at 150 bar = 1885 daN

Order No for spare parts kit: 2490.15.01800

Gas spring without valve

Order No (example): 2490.15.01800. .P

Pressure medium: Nitrogen N₂

Max. filling pressure: 150 bar

Min. filling pressure: 20 bar

Working temperature: 0°C to +80°C

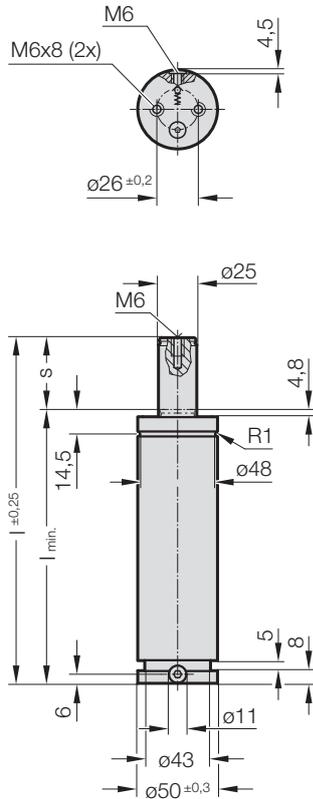
Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

approx. 50 to 100 (at 20°C)

Max. piston rod speed: 0.8 m/s

2490.15.01800.



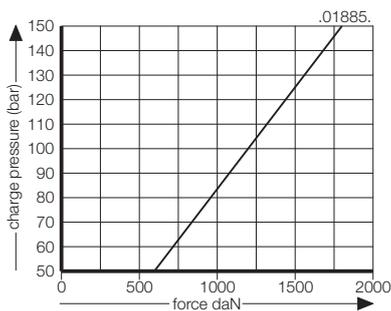
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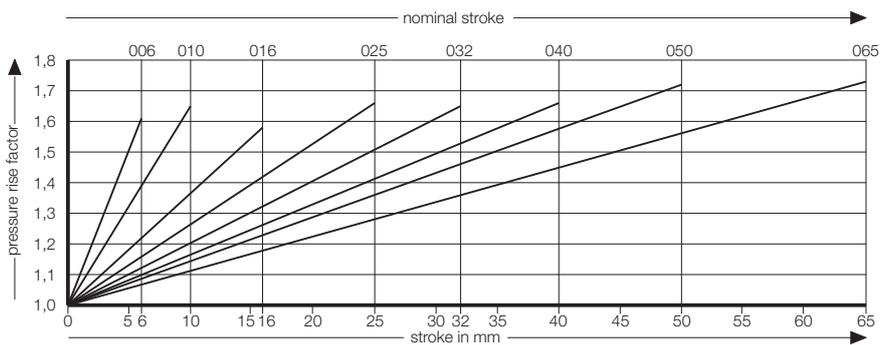
2490.15.01800. Compact gas spring

Order No	s (Stroke _{max})	l _{min}	l	Gas volume [l]	Weight [kg]
2490.15.01800.006	6	60	66	0.023	0.63
2490.15.01800.010	10	70	80	0.037	0.69
2490.15.01800.016	16	90	106	0.063	0.81
2490.15.01800.025	25	110	135	0.091	0.94
2490.15.01800.032	32	130	162	0.118	1.06
2490.15.01800.040	40	150	190	0.145	1.19
2490.15.01800.050	50	170	220	0.172	1.31
2490.15.01800.065	65	206	271	0.222	1.53

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!