

Gas spring, Standard

Note:

Initial spring force at 150 bar = 1530 daN

Order No for spare parts kit: 2480.15.01500
(Stroke length 13 not repairable)

Gas spring without valve

Order No (example): 2480.15.01500. .P

1) Special stroke lengths

Pressure medium: Nitrogen N₂

Max. filling pressure: 150 bar

Min. filling pressure: 20 bar

Working temperature: 0°C to +80°C

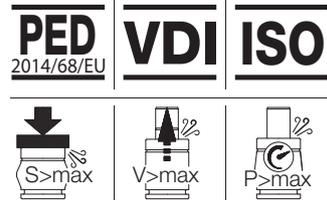
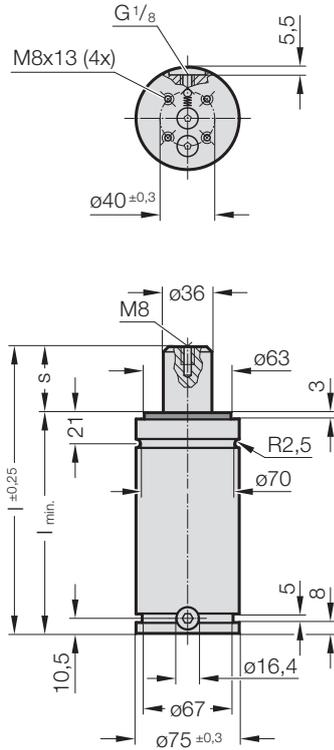
Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

approx. 15 to 50 (at 20°C)

Max. piston rod speed: 1.8 m/s

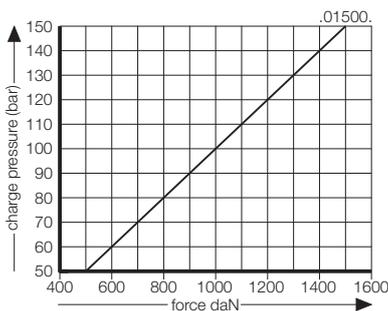
2480.15.01500.



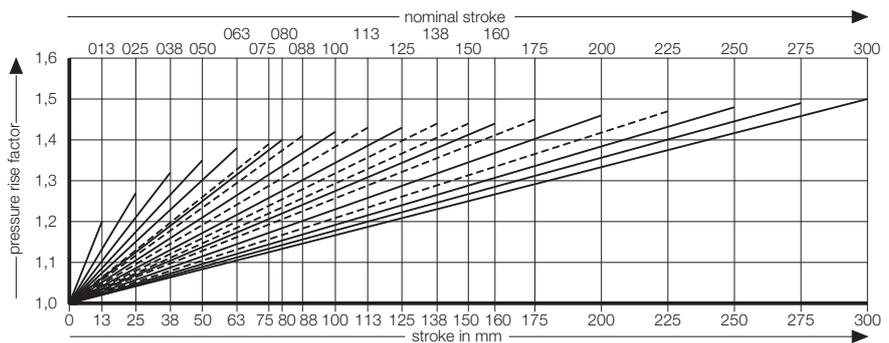
2480.15.01500. Gas spring, Standard

Order No	s (Stroke max.)	l	l _{min.}	Gas volume [l]	Weight [kg]
2480.15.01500.013	13	135	122	0.093	3.26
2480.15.01500.025	25	160	135	0.137	3.47
2480.15.01500.038	38	186	148	0.183	3.67
2480.15.01500.050	50	210	160	0.225	3.85
2480.15.01500.063	63.5	237	173.5	0.272	4.05
2480.15.01500.075	75	260	185	0.313	4.23
2480.15.01500.080	80	270	190	0.33	4.3
2480.15.01500.088	87.5	285	197.5	0.356	4.42
2480.15.01500.100	100	310	210	0.4	4.6
2480.15.01500.113	112.5	335	222.5	0.444	4.78
2480.15.01500.125	125	360	235	0.488	4.97
2480.15.01500.138	137.5	385	247.5	0.532	5.16
2480.15.01500.150	150	410	260	0.576	5.35
2480.15.01500.160	160	430	270	0.611	5.5
2480.15.01500.175	175	460	285	0.664	5.73
2480.15.01500.200	200	510	310	0.748	6.13
2480.15.01500.225	225	560	335	0.824	6.6
2480.15.01500.250	250	610	360	0.899	7.08
2480.15.01500.275	275	660	385	0.975	7.55
2480.15.01500.300	300	710	410	1.05	8.02

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!