

# Gas spring, Standard

## Note:

Initial spring force at 150 bar = 2945 daN

Order No for spare parts kit: 2480.15.03000  
(Stroke length 13 not repairable)

Gas spring without valve

Order No (example): 2480.15.03000. .P

### 1) Special stroke lengths

Pressure medium: Nitrogen N<sub>2</sub>

Max. filling pressure: 150 bar

Min. filling pressure: 20 bar

Working temperature: 0°C to +80°C

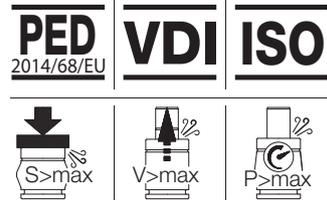
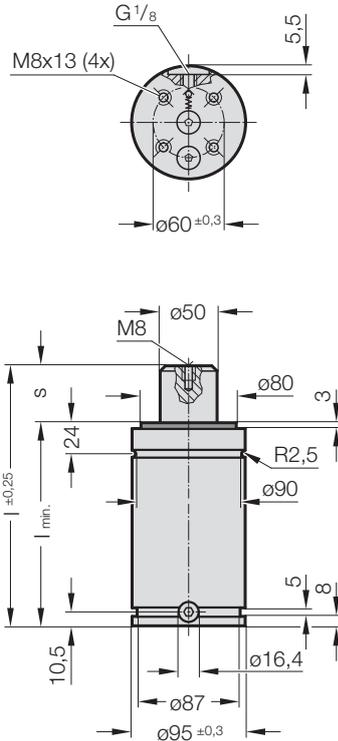
Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

approx. 15 to 50 (at 20°C)

Max. piston rod speed: 1.8 m/s

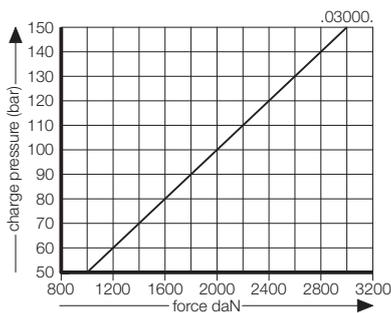
## 2480.15.03000.



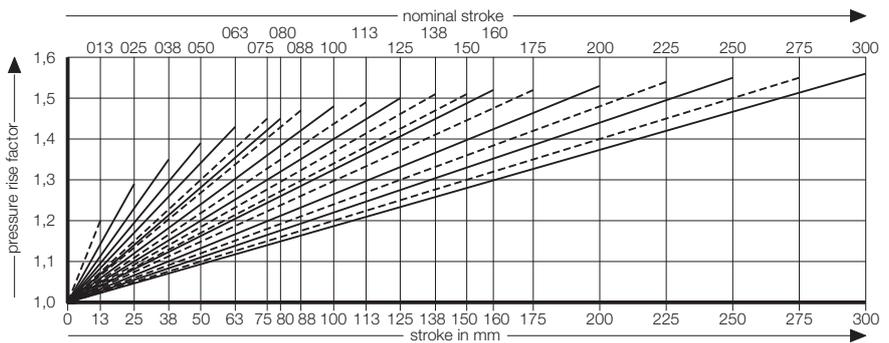
## 2480.15.03000. Gas spring, Standard

Order No	s (Stroke <sub>max</sub> )	l	l <sub>min.</sub>	Gas volume [l]	Weight [kg]
2480.15.03000.013	13	145	132	0.18	5.57
2480.15.03000.025	25	170	145	0.254	5.9
2480.15.03000.038	38	196	158	0.332	6.21
2480.15.03000.050	50	220	170	0.404	6.5
2480.15.03000.063	63.5	247	183.5	0.484	6.83
2480.15.03000.075	75	270	195	0.553	7.1
2480.15.03000.080	80	280	200	0.583	7.22
2480.15.03000.088	87.5	295	207.5	0.628	7.41
2480.15.03000.100	100	320	220	0.703	7.67
2480.15.03000.113	113	345	232	0.777	7.97
2480.15.03000.125	125	370	245	0.853	8.27
2480.15.03000.138	138	395	257	0.927	8.57
2480.15.03000.150	150	420	270	1.002	8.87
2480.15.03000.160	160	440	280	1.062	9.11
2480.15.03000.175	175	470	295	1.151	9.47
2480.15.03000.200	200	520	320	1.301	10.08
2480.15.03000.225	225	570	345	1.45	10.68
2480.15.03000.250	250	620	370	1.6	11.28
2480.15.03000.275	275	670	395	1.749	11.88
2480.15.03000.300	300	720	420	1.899	12.49

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!