

Gas spring, Standard

Note:

Initial spring force at 150 bar = 7540 daN

Order No for spare parts kit: 2480.15.07500

Gas spring without valve

Order No (example): 2480.15.07500 . 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

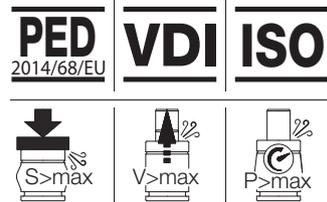
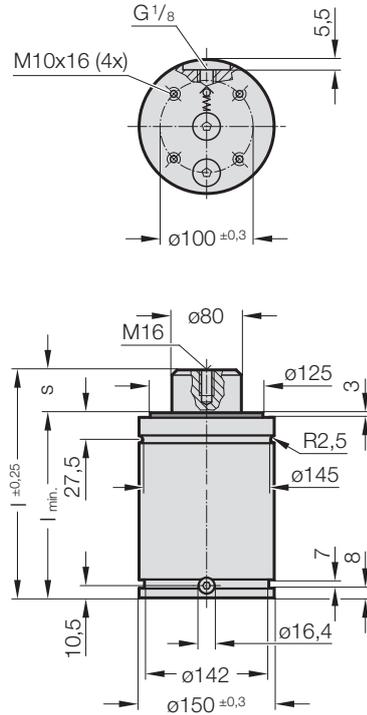
Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

approx. 15 - 50 (at 20°C)

Max. piston rod speed: 1.8 m/s

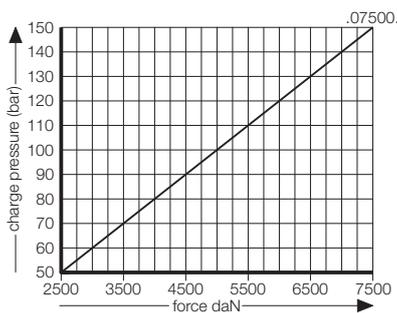
2480.15.07500.



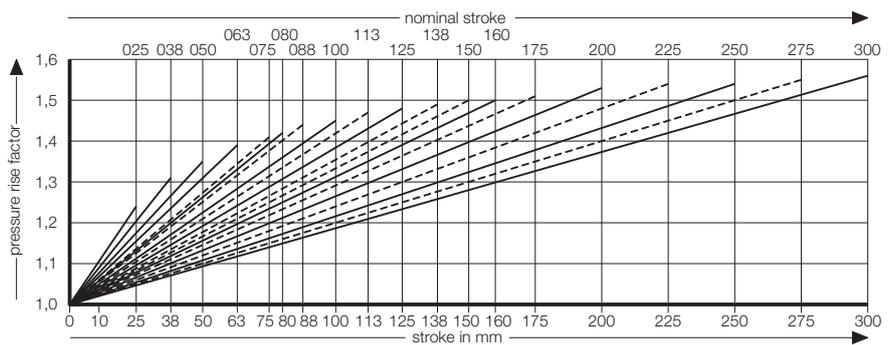
2480.15.07500. Gas spring, Standard

Order No	s (Stroke max.)	l	l _{min.}	Gas volume [l]	Weight [kg]
2480.15.07500.025	25	205	180	0.757	18.71
2480.15.07500.038	38	231	193	0.951	19.5
2480.15.07500.050	50	255	205	1.13	20.24
2480.15.07500.063	63.5	282	218.5	1.331	21.06
2480.15.07500.075	75	305	230	1.503	21.76
2480.15.07500.080	80	315	235	1.577	22.07
2480.15.07500.088	87.5	330	242.5	1.689	22.45
2480.15.07500.100	100	355	255	1.875	23.23
2480.15.07500.113	113	380	267	2.057	23.98
2480.15.07500.125	125	405	280	2.248	24.76
2480.15.07500.138	138	430	292	2.43	25.51
2480.15.07500.150	150	455	305	2.62	26.28
2480.15.07500.160	160	475	315	2.769	26.9
2480.15.07500.175	175	505	330	2.993	27.81
2480.15.07500.200	200	555	355	3.366	29.34
2480.15.07500.225	225	605	380	3.738	30.87
2480.15.07500.250	250	655	405	4.711	32.39
2480.15.07500.275	275	705	430	4.483	33.92
2480.15.07500.300	300	755	455	4.856	35.45

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!