

Gas spring, Standard

Note:

Initial spring force at 150 bar = 4980 daN

Order No for spare parts kit: 2480.15.05000

Gas spring without valve

Order No (example): 2480.15.05000 .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

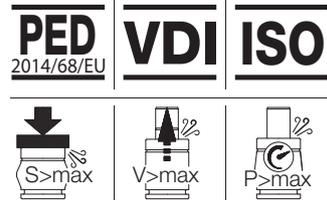
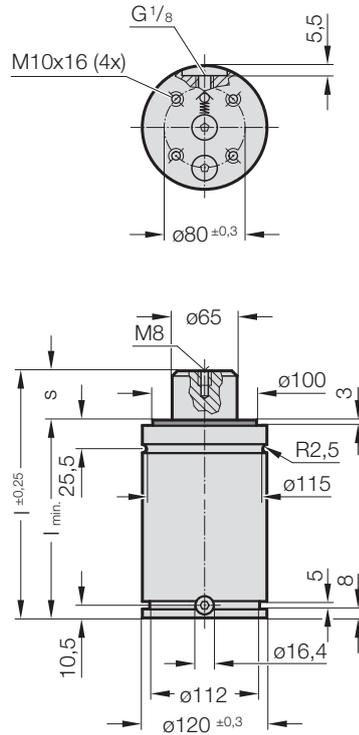
Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

approx. 15 to 50 (at 20°C)

Max. piston rod speed: 1.8 m/s

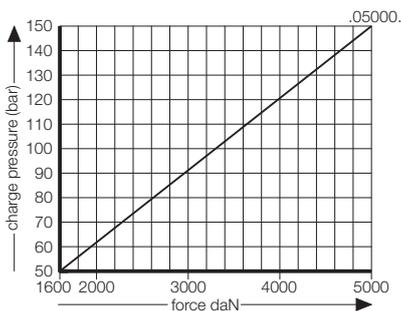
2480.15.05000.



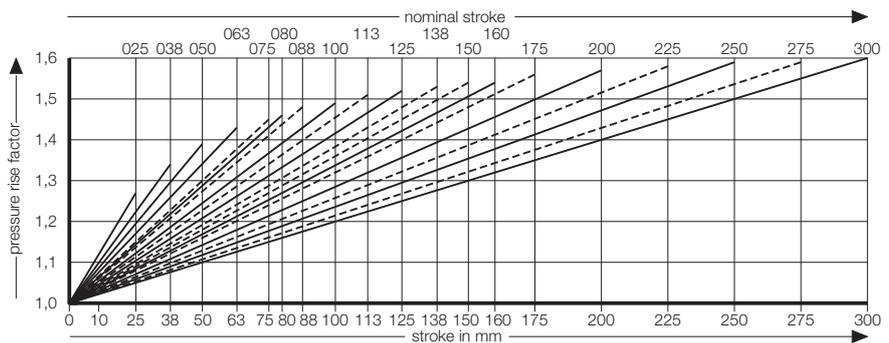
2480.15.05000. Gas spring, Standard

Order No	s (Stroke _{max.})	l	l _{min.}	Gas volume [l]	Weight [kg]
2480.15.05000.025	25	190	165	0.45	10.94
2480.15.05000.038	38	216	178	0.57	11.46
2480.15.05000.050	50	240	190	0.688	11.94
2480.15.05000.063	63.5	267	203.5	0.816	12.56
2480.15.05000.075	75	290	215	0.925	12.94
2480.15.05000.080	80	300	220	0.973	13.15
2480.15.05000.088	87.5	315	227.5	1.044	13.39
2480.15.05000.100	100	340	240	1.163	13.89
2480.15.05000.113	113	365	252	1.282	14.4
2480.15.05000.125	125	390	265	1.401	14.9
2480.15.05000.138	138	415	277	1.52	15.4
2480.15.05000.150	150	440	290	1.638	15.9
2480.15.05000.160	160	460	300	1.733	16.3
2480.15.05000.175	175	490	315	1.869	16.9
2480.15.05000.200	200	540	340	2.107	17.91
2480.15.05000.225	225	590	365	2.344	18.91
2480.15.05000.250	250	640	390	2.582	19.91
2480.15.05000.275	275	690	415	2.82	20.92
2480.15.05000.300	300	740	440	3.057	21.92

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!