

Gas spring, Standard

Note:

Initial spring force at 150 bar = 740 daN

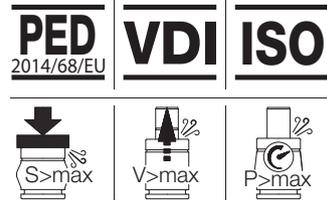
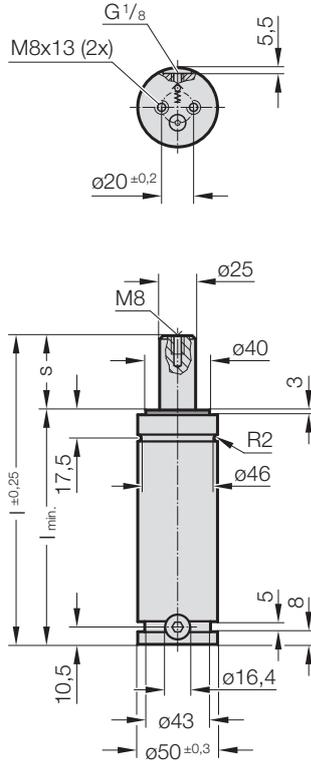
Order No for spare parts kit: 2480.15.00750
(Stroke length 13 not repairable)

Gas spring without valve
Order No (example): 2480.15.00750. .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

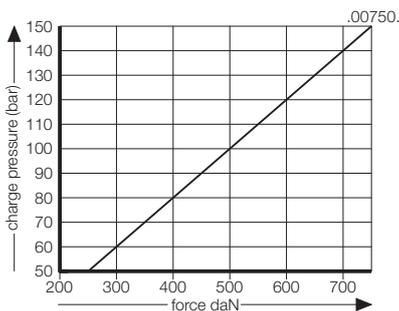
2480.15.00750.



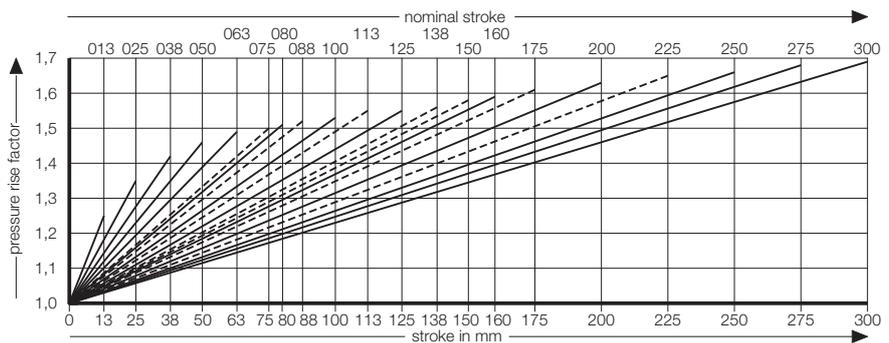
2480.15.00750. Gas spring, Standard

Order No	s (Stroke _{max})	l	l _{min.}	Gas volume [l]	Weight [kg]
2480.15.00750.013	12.7	120.4	107.7	0.036	1.24
2480.15.00750.025	25	145	120	0.054	1.34
2480.15.00750.038	38	171	133	0.073	1.45
2480.15.00750.050	50	195	145	0.09	1.54
2480.15.00750.063	63.5	222	158.5	0.109	1.65
2480.15.00750.075	75	245	170	0.126	1.75
2480.15.00750.080	80	255	175	0.133	1.79
2480.15.00750.088	87.5	270	182.5	0.144	1.85
2480.15.00750.100	100	295	195	0.161	1.96
2480.15.00750.113	112.5	320	207.5	0.179	2.06
2480.15.00750.125	125	345	220	0.197	2.016
2480.15.00750.138	137.5	370	232.5	0.214	2.227
2480.15.00750.150	150	395	245	0.229	2.39
2480.15.00750.160	160	415	255	0.241	2.49
2480.15.00750.175	175	445	270	0.259	2.64
2480.15.00750.200	200	495	295	0.289	2.89
2480.15.00750.225	225	545	320	0.32	3.13
2480.15.00750.250	250	595	345	0.35	3.32
2480.15.00750.275	275	645	370	0.38	3.63
2480.15.00750.300	300	695	395	0.41	3.88

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!