

# Gas spring POWERLINE

## Note:

Initial spring force at 150 bar = 9540 daN

Order No for spare parts kit: 2487.15.09500  
(Stroke length 19 not repairable)

Gas spring without valve

Order No (example): 2487.15.09500. .P

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

Max. filling pressure: 150 bar

Min. filling pressure: 20 bar

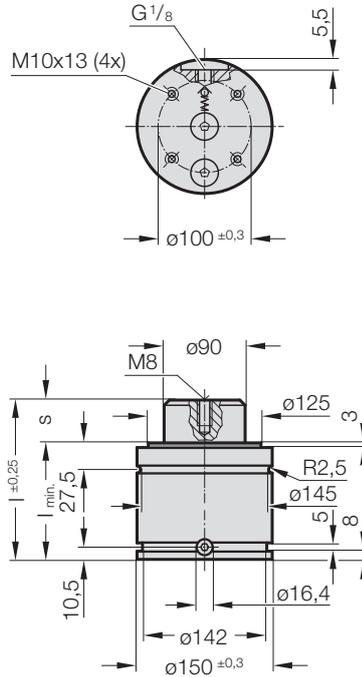
Working temperature: 0°C to +80°C

Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:  
approx. 20 to 80 (at 20°C)

Max. piston rod speed: 1.8 m/s

## 2487.15.09500.



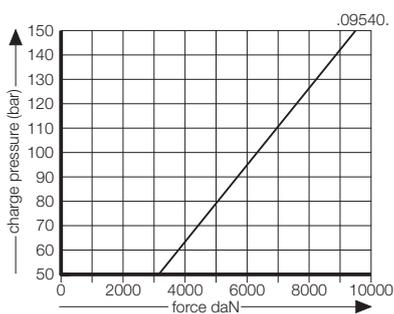
**PED** 2014/68/EU | **VDI** | **ISO**



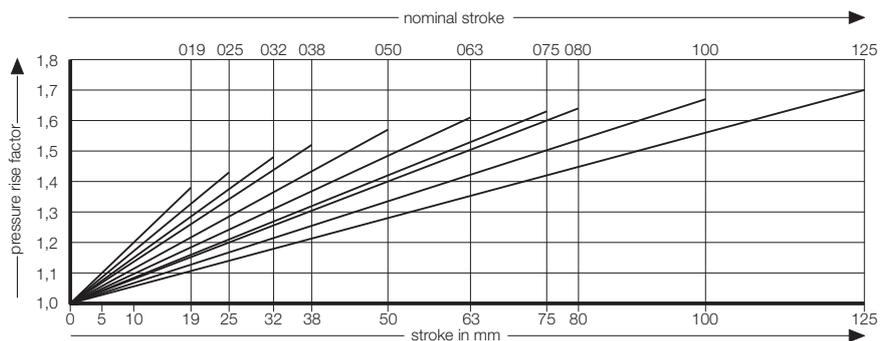
## 2487.15.09500. Gas spring POWERLINE

Order No	s (Stroke <sub>max</sub> )	l <sub>min.</sub>	l	Gas volume [l]	Weight [kg]
2487.15.09500.019	19	97	116	0.513	9.56
2487.15.09500.025	25	103	128	0.609	9.93
2487.15.09500.032	32	110	142	0.722	10.37
2487.15.09500.038	38	116	154	0.818	10.74
2487.15.09500.050	50	128	178	1.01	11.49
2487.15.09500.063	63	141	204	1.218	12.3
2487.15.09500.075	75	153	228	1.411	13.05
2487.15.09500.080	80	158	238	1.491	13.37
2487.15.09500.100	100	178	278	1.811	14.61
2487.15.09500.125	125	203	328	2.212	16.18

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!