

Gas spring POWERLINE

Note:

Initial spring force at 150 bar = 920 daN

Order No for spare parts kit: 2487.15.01000
(Stroke length 10 and 13 not repairable)

Gas spring without valve

Order No (example): 2487.15.01000. .1.P

Pressure medium: Nitrogen N₂

Max. filling pressure: 150 bar

Min. filling pressure: 20 bar

Working temperature: 0°C to +80°C

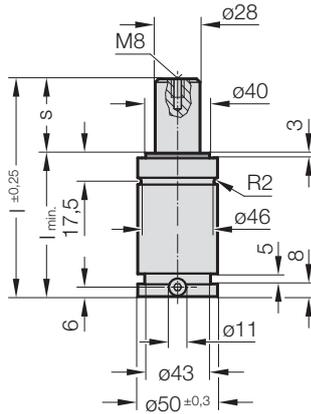
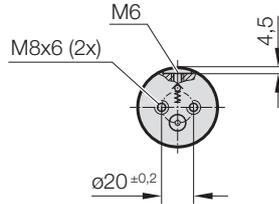
Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

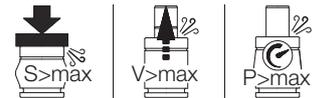
approx. 20 to 100 (at 20°C)

Max. piston rod speed: 1.8 m/s

2487.15.01000.



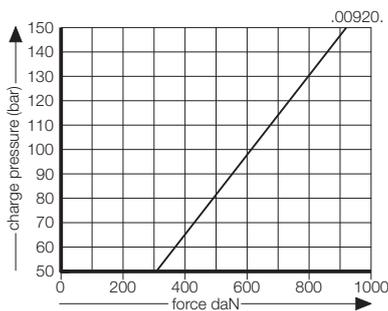
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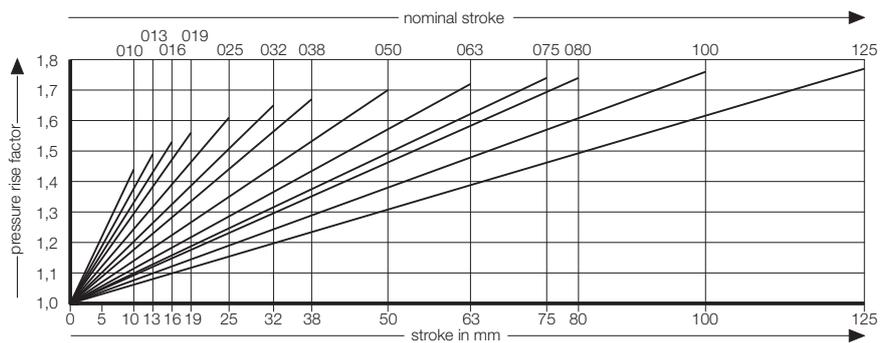
2487.15.01000. Gas spring POWERLINE

Order No	s (Stroke _{max.})	l _{min.}	l	Gas volume [l]	Weight [kg]
2487.15.01000.010	10	48	58	0.024	0.49
2487.15.01000.013	13	51	64	0.028	0.51
2487.15.01000.016	16	54	70	0.033	0.54
2487.15.01000.019	19	57	76	0.038	0.56
2487.15.01000.025	25	63	88	0.047	0.61
2487.15.01000.032	32	70	102	0.058	0.67
2487.15.01000.038	38	76	114	0.067	0.72
2487.15.01000.050	50	88	138	0.086	0.81
2487.15.01000.063	63	101	164	0.106	0.92
2487.15.01000.075	75	113	188	0.125	1.011
2487.15.01000.080	80	118	198	0.133	1.05
2487.15.01000.100	100	138	238	0.164	1.21
2487.15.01000.125	125	163	288	0.203	1.41

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!