Gas spring POWERLINE

Note:
Initial spring force at 180 bar = 170 daN

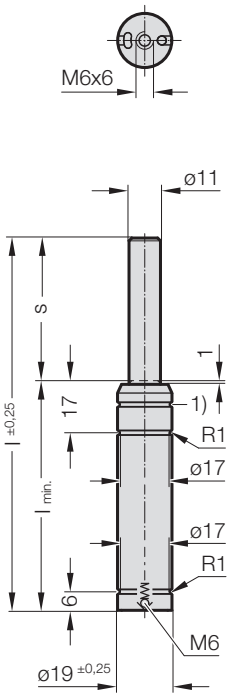
Worn gas springs cannot be repaired, they have to be replaced completely.

Pressure medium: Nitrogen N_2
Max. filling pressure: 180 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. 40 - 100 (at 20°C)
Max. piston rod speed: 1.8 m/s

In the case of a hose connection, the connection fitting 2480.00.22.06.06.10 (24° cone micro) must be used.

1) Not for fastening

2487.15.00170.



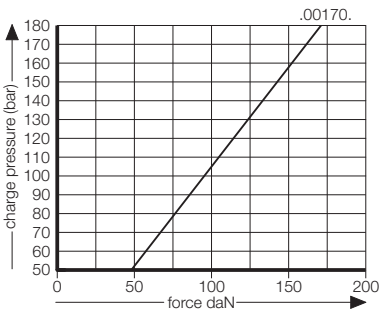
PED 2014/68/EU | VDI | ISO

S>max | V>max | P>max

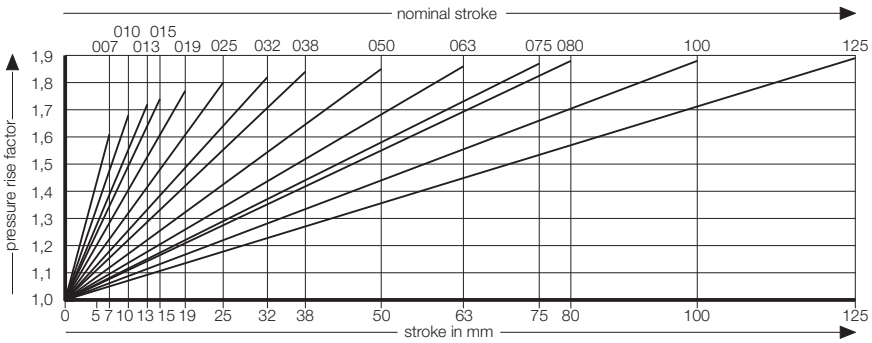
2487.15.00170. Gas spring POWERLINE

Order No	s (Stroke max.)	$l_{min.}$	l	Gas volume [l]	Weight
2487.15.00170.007	7	37	44	0.002	0.06
2487.15.00170.010	10	40	50	0.003	0.06
2487.15.00170.013	13	43	56	0.004	0.07
2487.15.00170.015	15	45	60	0.004	0.07
2487.15.00170.019	19	49	68	0.005	0.07
2487.15.00170.025	25	55	80	0.006	0.08
2487.15.00170.032	32	62	94	0.008	0.09
2487.15.00170.038	38	68	106	0.01	0.09
2487.15.00170.050	50	80	130	0.012	0.11
2487.15.00170.063	63	93	156	0.016	0.12
2487.15.00170.075	75	110	185	0.013	0.14
2487.15.00170.080	80	115	195	0.02	0.14
2487.15.00170.100	100	135	235	0.024	0.16
2487.15.00170.125	125	160	285	0.03	0.19

Initial spring force
versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!