

GAS SPRING POWERLINE

Note:

Initial spring force at 150 bar = 470 daN

Order No for spare parts kit: 2487.12.00500

Gas spring without valve

Order No (example): 2487.12.00500. .P

Pressure medium: Nitrogen N₂

Max. filling pressure: 150 bar

Min. filling pressure: 25 bar

Working temperature: 0°C to +80°C

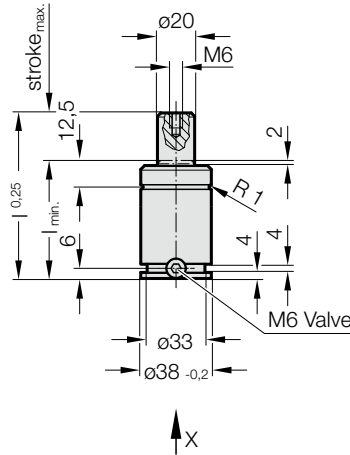
Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

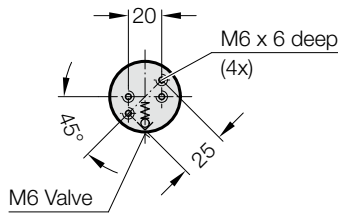
approx. 20 to 100 (at 20°C)

Max. piston speed: 1.6 m/s

2487.12.00500.



View X

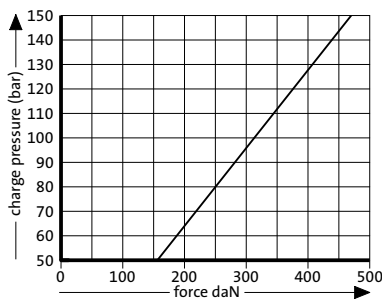


2487.12.00500.

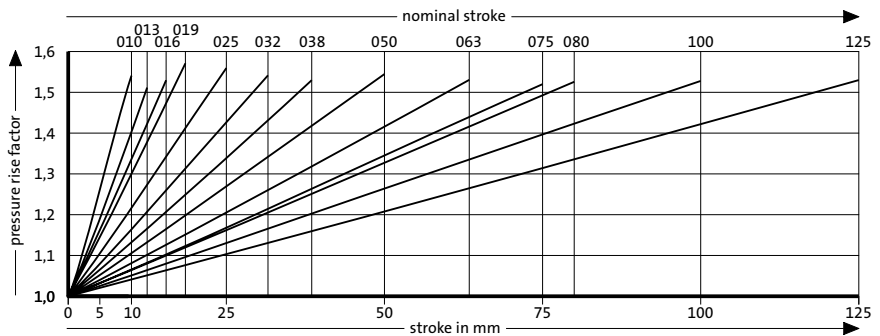
Gas spring POWERLINE

| Order No | Stroke _{max.} (s) | l _{min.} | l |
|-------------------|----------------------------|-------------------|-----|
| 2487.12.00500.010 | 10 | 40 | 50 |
| 2487.12.00500.013 | 13 | 43 | 56 |
| 2487.12.00500.016 | 16 | 46 | 62 |
| 2487.12.00500.019 | 19 | 49 | 68 |
| 2487.12.00500.025 | 25 | 55 | 80 |
| 2487.12.00500.032 | 32 | 62 | 94 |
| 2487.12.00500.038 | 38 | 68 | 106 |
| 2487.12.00500.050 | 50 | 80 | 130 |
| 2487.12.00500.063 | 63 | 93 | 156 |
| 2487.12.00500.075 | 75 | 105 | 180 |
| 2487.12.00500.080 | 80 | 110 | 190 |
| 2487.12.00500.100 | 100 | 130 | 230 |
| 2487.12.00500.125 | 125 | 155 | 280 |

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!