

GAS SPRING HEAVY DUTY

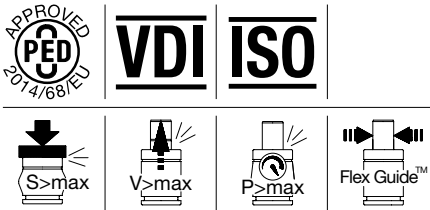
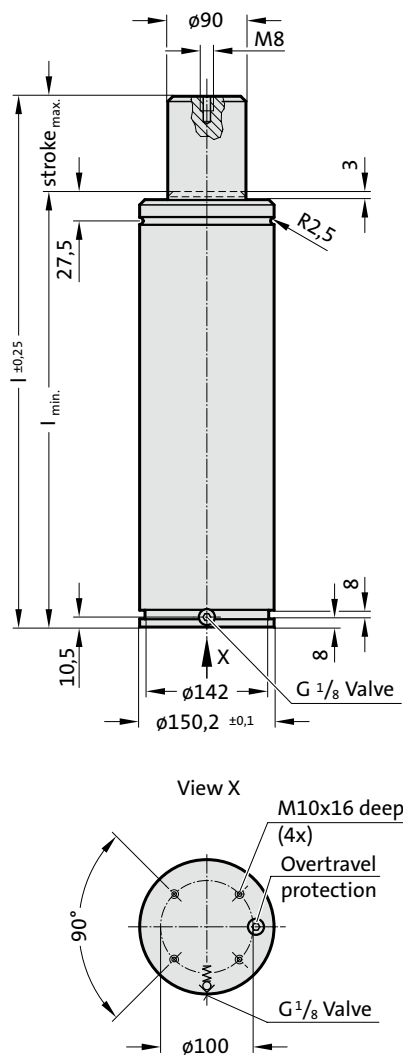
**Note:**  
Initial spring force at 150 bar = 9500 daN

Order No for spare parts kit: 2488.13.09500

Gas spring without valve  
Order No (example): 2488.13.09500. .P

Pressure medium: Nitrogen N<sub>2</sub>  
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. 15 to 100 (at 20°C)  
Max. piston speed: 1.6 m/s

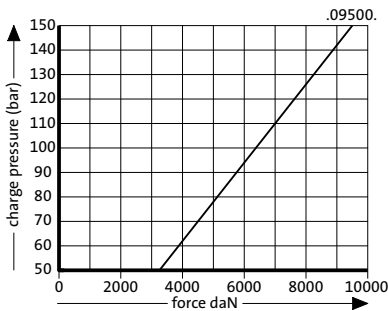
2488.13.09500.



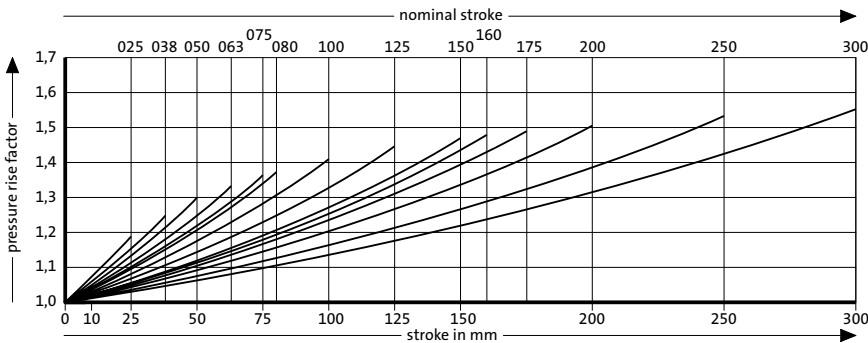
2488.13.09500.  
Gas spring HEAVY DUTY

| Order No          | Stroke <sub>max.</sub> (s) | l <sub>min.</sub> | l   |
|-------------------|----------------------------|-------------------|-----|
| 2488.13.09500.025 | 25                         | 180               | 205 |
| 2488.13.09500.038 | 38                         | 193               | 231 |
| 2488.13.09500.050 | 50                         | 205               | 255 |
| 2488.13.09500.063 | 63                         | 218               | 281 |
| 2488.13.09500.075 | 75                         | 230               | 305 |
| 2488.13.09500.080 | 80                         | 235               | 315 |
| 2488.13.09500.100 | 100                        | 255               | 355 |
| 2488.13.09500.125 | 125                        | 280               | 405 |
| 2488.13.09500.150 | 150                        | 305               | 455 |
| 2488.13.09500.160 | 160                        | 315               | 475 |
| 2488.13.09500.175 | 175                        | 330               | 505 |
| 2488.13.09500.200 | 200                        | 355               | 555 |
| 2488.13.09500.250 | 250                        | 405               | 655 |
| 2488.13.09500.300 | 300                        | 455               | 755 |

Initial spring force  
versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!