

COMPACT GAS SPRING

Note:

Initial spring force at 150 bar = 7500 daN

Order No for spare parts kit: 2490.14.07500

Gas spring without valve

Order No (example): 2490.14.07500. .P

When mounting to floor, contact over the entire floor of the cylinder tube must be ensured! Before fitting the adapter base plate remove the valve from the gas spring. If vibration occurs, tighten the fixing screws accordingly.

Pressure medium: Nitrogen N₂

Max. filling pressure: 150 bar

Min. filling pressure: 25 bar

Working temperature: 0°C to +80°C

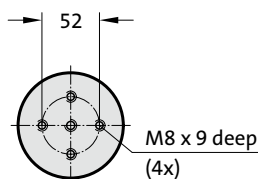
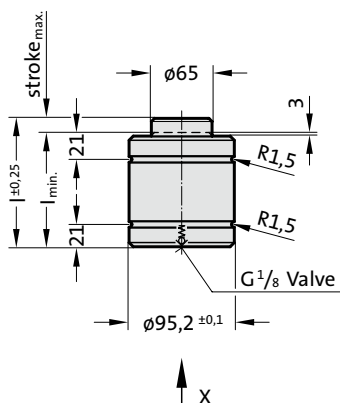
Temperature related force increase: $\pm 0.3\%/^{\circ}\text{C}$

Max. recommended extensions per minute:

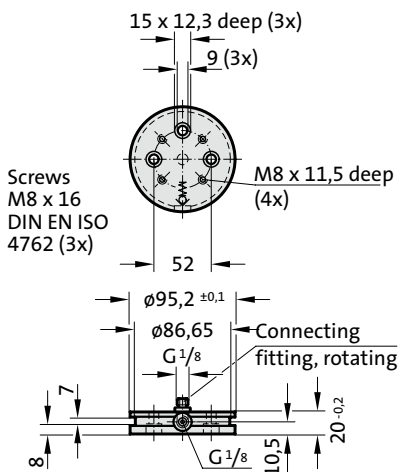
approx. 80 to 100 (at 20°C)

Max. piston speed: 0.8 m/s

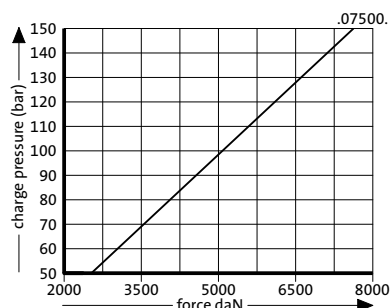
2490.14.07500.



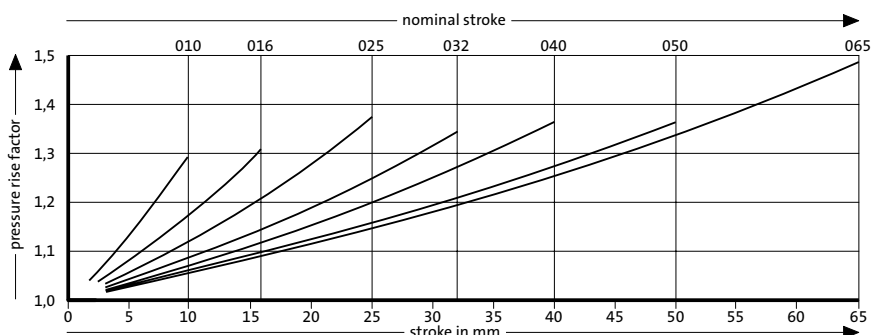
View X



Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!



2490.14.07500.

Compact gas spring

Order No	Stroke _{max} (s)	l_{min}	l	g_2^*
2490.14.07500.010	10	80	90	68
2490.14.07500.016	16	100	116	88
2490.14.07500.025	25	120	145	108
2490.14.07500.032	32	150	182	138
2490.14.07500.040	40	170	210	158
2490.14.07500.050	50	205	255	193
2490.14.07500.065	65	214	279	202

*see mounting example