

COMPACT GAS SPRING

Note:

Initial spring force at 150 bar = 4700 daN

Order No for spare parts kit: 2490.14.04700

Gas spring without valve

Order No (example): 2490.14.04700. .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

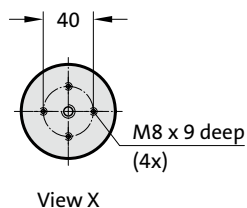
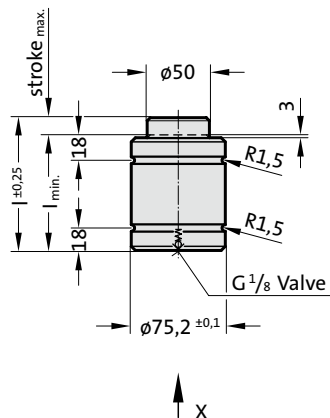
Temperature related force increase: $\pm 0.3\%/^{\circ}\text{C}$

Max. recommended extensions per minute:

approx. 80 to 100 (at 20°C)

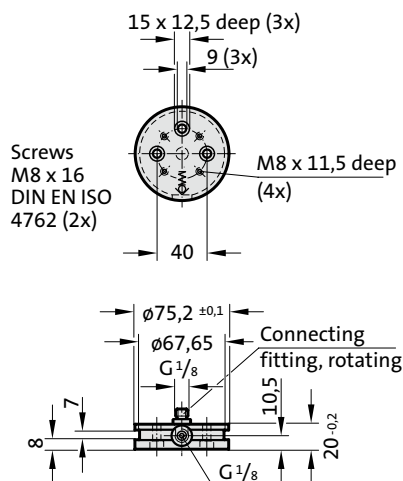
Max. piston speed: 0.8 m/s

2490.14.04700.

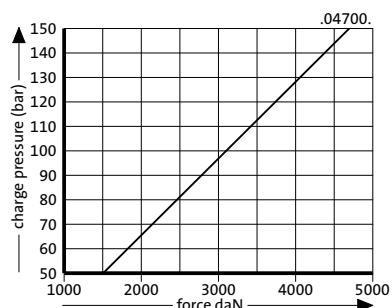


2480.00.20.04700

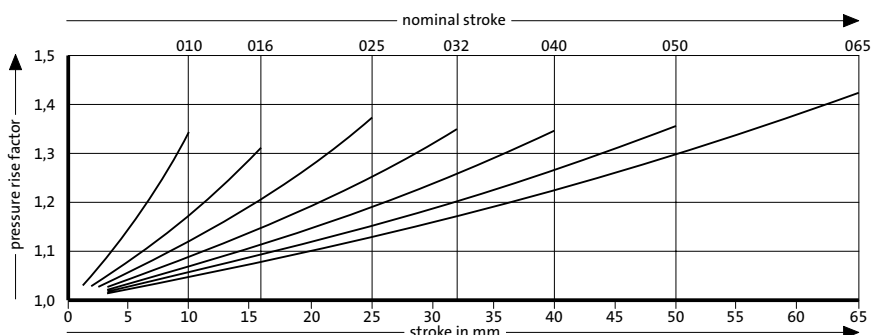
Adapter baseplate with connecting Fitting



Initial spring force
versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!



2490.14.04700.

Compact gas spring

Order No	Stroke _{max} (s)	l _{min}	l	g ₂ [*]
2490.14.04700.010	10	70	80	60
2490.14.04700.016	16	90	106	80
2490.14.04700.025	25	110	135	100
2490.14.04700.032	32	135	167	125
2490.14.04700.040	40	160	200	150
2490.14.04700.050	50	190	240	180
2490.14.04700.065	65	208	273	198

*see mounting example