

COMPACT GAS SPRING

Note:

Initial spring force at 150 bar = 11800 daN

Order No for spare parts kit: 2490.14.11800

Gas spring without valve

Order No (example): 2490.14.11800. .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

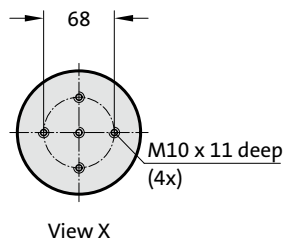
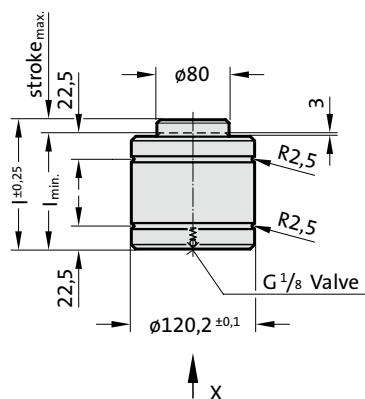
Temperature related force increase: $\pm 0.3\%/^{\circ}\text{C}$

Max. recommended extensions per minute:

approx. 80 to 100 (at 20°C)

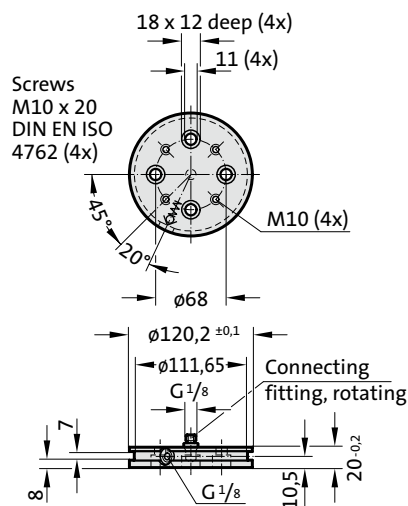
Max. piston speed: 0.8 m/s

2490.14.11800.

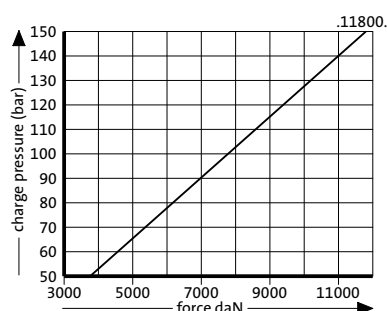


2480.00.20.11800

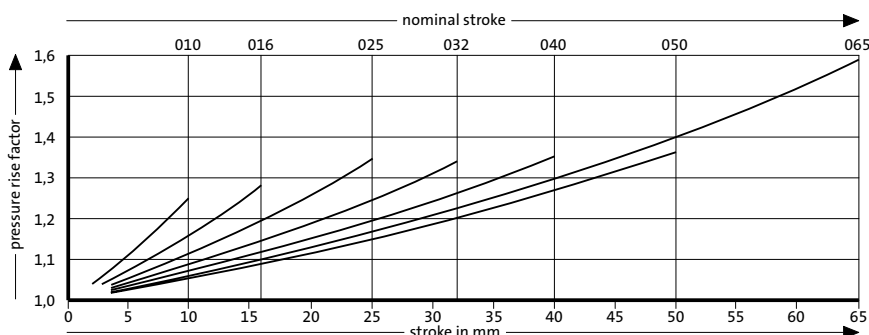
Adapter baseplate with connecting Fitting



Initial spring force
versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!



2490.14.11800.

Compact gas spring

Order No	Stroke _{max.} (s)	I _{min.}	I	g ₂ *
2490.14.11800.010	10	90	100	78
2490.14.11800.016	16	110	126	98
2490.14.11800.025	25	130	155	118
2490.14.11800.032	32	155	187	143
2490.14.11800.040	40	180	220	168
2490.14.11800.050	50	210	260	198
2490.14.11800.065	65	255	320	243

*see mounting example