

GAS SPRING, SMALL DIMENSION AND LOW FORCE

Description:

The gas springs are colour-coded according to the spring force rating ranges 13-25-38-50 daN.

All springs, regardless of their spring force ratings, are of the same design. The differing force ratings result exclusively from the differing charge pressures.

Gas can be added or reduced from below.

Note:

Worn gas springs cannot be repaired, they have to be replaced completely.

Pressure medium: Nitrogen N₂

Max. filling pressure: 180 bar

Min. filling pressure: 20 bar

Working temperature: 0°C to +80°C

Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute:

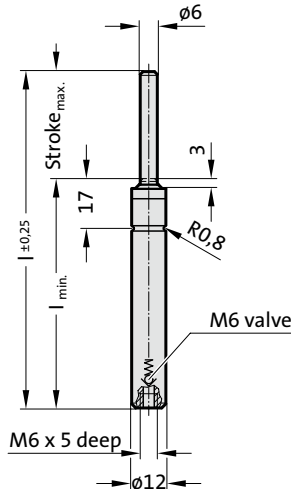
approx. 40 to 100 (at 20°C)

Max. piston speed: 1.6 m/s

Spring forces as per spring diagram.

Upon customers request, also available unfilled, Order No 2482.72.00000...., Colour: black

2482.72.



2482.72. Gas spring, small dimension and low force

Order No*	Stroke _{max.}	l	l _{min.}
2482.72.00000.007	7	56	49
2482.72.00000.010	10	62	52
2482.72.00000.013	12.7	67.4	54.7
2482.72.00000.015	15	72	57
2482.72.00000.019	19	80	61
2482.72.00000.025	25	92	67
2482.72.00000.038	38	118	80
2482.72.00000.050	50	142	92
2482.72.00000.063	63.5	172	108.5
2482.72.00000.075	75	195	120
2482.72.00000.080	80	205	125
2482.72.00000.100	100	245	145
2482.72.00000.125	125	295	170

*complete with initial spring force

Spring force marking: Initial spring force [daN] - Pressure [bar] - Colour:

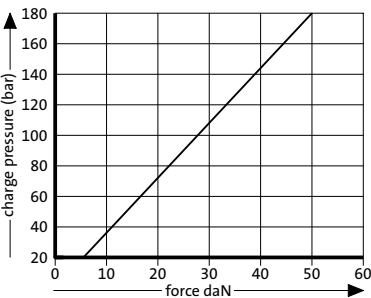
.00013. - 45 - green

.00025. - 90 - blue

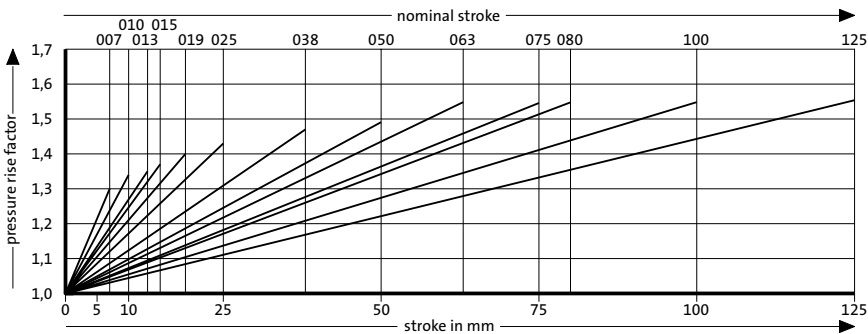
.00038. - 135 - red

.00050. - 180 - yellow

Initial spring force
versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!