

Gas spring, small dimension and low force

Description:

The gas springs are colour-coded according to the spring force rating ranges 50–100–150–200 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.

Do take into consideration the colour-coded pressure rating during repair work and recharging.

Note:

Order No for spare parts kit: 2480.24.00150 not repairable

Pressure medium: Nitrogen N₂

Max. filling pressure: 180 bar

Min. filling pressure: 10 bar

Working temperature: 0°C to +80°C

Temperature related force increase: ± 0.3%/°C

Max. recommended extensions per minute: approx. 50 - 80 (at 20°C)

Max. piston rod speed: 1.8 m/s

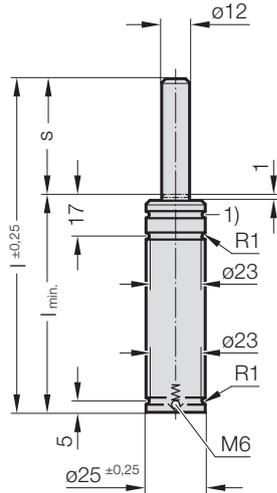
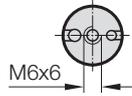
Spring forces as per spring diagram.

Upon customers request, also available unfilled, Order No 2480.24.00000...., Colour: black

In the case of a hose connection, the connection fitting 2480.00.22.06.06.10 (24° cone micro) must be used.

1) For spring force labelling and mounting additional wipers

2480.24.



PED
2014/68/EU



2480.24. Gas spring, small dimension and low force

Order No*	s (Stroke _{max})	l	l _{min}	Gas volume [l]	Weight [kg]
2480.24.00050.007	7	56	49	0.004	0.12
2480.24.00100.010	10	62	52	0.005	0.13
2480.24.00150.013	12.7	67.4	54.7	0.006	0.13
2480.24.00200.015	15	72	57	0.007	0.14
2480.24.00050.016	16	74	58	0.007	0.14
2480.24.00100.025	25	92	67	0.011	0.16
2480.24.00150.038	38.1	118.2	80.1	0.016	0.19
2480.24.00200.050	50	142	92	0.02	0.2
2480.24.00050.063	63.5	172	108.5	0.025	0.23
2480.24.00100.080	80	205	125	0.031	0.26
2480.24.00150.100	100	245	145	0.039	0.3
2480.24.00200.125	125	295	170	0.048	0.34
2480.24.00050.150	150	353	203	0.059	0.42
2480.24.00100.160	160	373	213	0.063	0.45
2480.24.00150.175	175	403	228	0.068	0.47
2480.24.00200.200	200	453	253	0.078	0.52

*complete with initial spring force

Spring force marking:

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

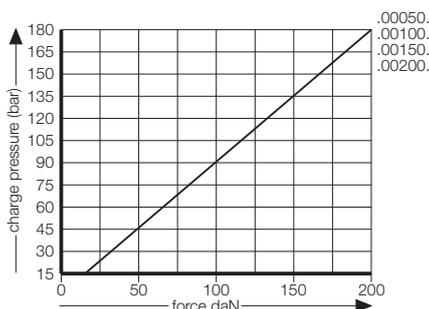
.00050. - 45 - green

.00100. - 90 - blue

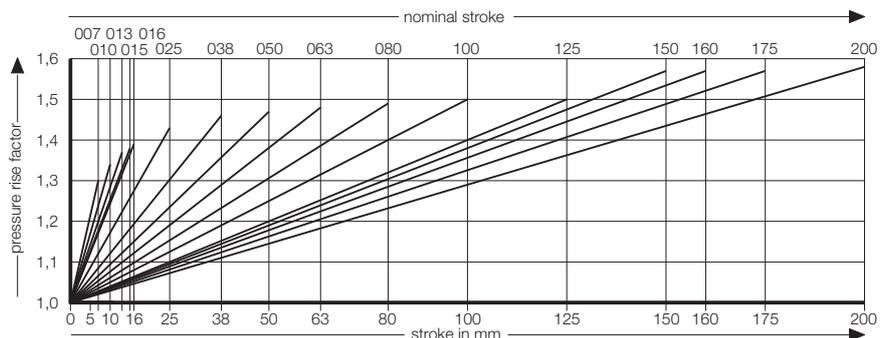
.00150. - 135 - red

.00200. - 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!