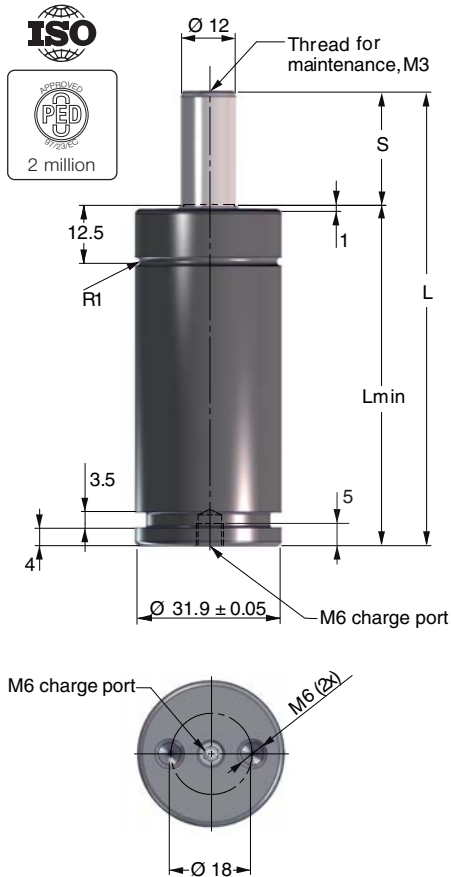


MC3



The MC3 spring is based on the M2 spring, using the same piston rod and internal components. The body of the spring and the mount are designed to meet the ISO dimension found in ISO 11901 as well as in VDI 3003.

Each spring is color-coded for easy identification of force rating. We also offer a model with adjustable force (black) that can be customized to meet individual force requirements. The adjustable model may be set to the desired pressure when ordered from us or by customers with charging equipment.

The spring can be attached to the tool, using an FC-MC or FFC-MC mount. The M6 thread in the base of the spring is used for charging and is also a mounting option.

Model	Force in N at +20°C	Force in lbf at +20°C	Color	Charging pressure (bar)
	Initial	Initial		
MC3	500	110	Green	45
MC3	1,000	225	Blue	90
MC3	1,500	340	Red	135
MC3	2,000	450	Yellow	180
MC3 *	280-2,000	63-450	Black	25-180

*Force to be set by the end user. Delivered with a pre-charge of 5-10 bar.

S stroke	End force in N at +20°C*				End force in lbf at +20°C*				L ±0.25	L min.	Gas vol. (l)	Weight (kg)	ISO
	MC3	MC3	MC3	MC3	MC3	MC3	MC3	MC3					
** 10	770	1,530	2,300	3,060	173	344	517	688	70	60	0.005	0.30	✓
** 12.7	770	1,530	2,300	3,070	173	344	517	690	75.4	62.7	0.006	0.31	
** 16	770	1,540	2,310	3,070	173	340	519	690	82	66	0.007	0.33	✓
** 25	770	1,540	2,310	3,080	173	340	519	692	100	75	0.010	0.38	✓
** 38.1	770	1,540	2,320	3,090	173	340	522	695	126.2	88.1	0.015	0.43	
** 50	770	1,540	2,320	3,090	173	340	522	695	150	100	0.019	0.48	✓
** 63.5	760	1,520	2,270	3,020	171	342	510	679	177	113.5	0.024	0.54	
** 80	760	1,520	2,280	3,040	171	342	513	683	210	130	0.029	0.62	✓
** 100	760	1,520	2,290	3,050	171	342	515	686	250	150	0.036	0.71	
** 125	760	1,530	2,290	3,060	171	342	515	688	300	175	0.044	0.83	

*at full stroke

** Recommended stroke length for optimal delivery

How to order

MC3 -10 - Red

Model

Force:

Stroke Length (mm)
(10, 12.7, 16, 25, 38.1,
50, 63.5, 80, 100, 125)

Green
Blue
Red
Yellow
Black, state
desired force in N

Basic Information

For general information see "About gas springs", 2.1
 Pressure medium Nitrogen
 Max. charging pressure 180 bar
 Min. charging pressure 25 bar
 Operating temperature 0 to +80°C
 Force increase by temperature ±0.3%/°C
 Recommended max strokes/min ... ~ 80-100 (at 20°C)
 Max piston rod velocity 1.6 m/s

Rod surface..... Nitrided
 Tube surface Black oxide
 Repair kit 3016385

Mounting Possibilities

