

KALLER®

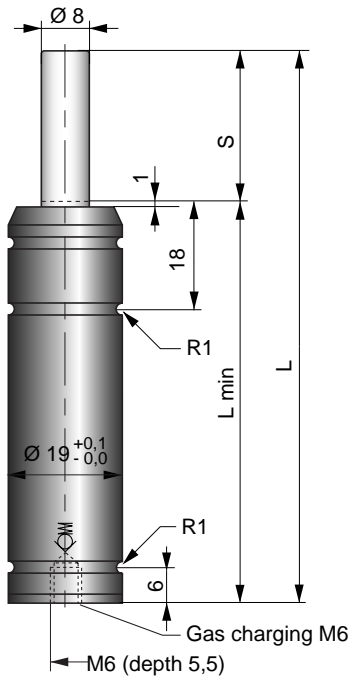
GAS SPRINGS



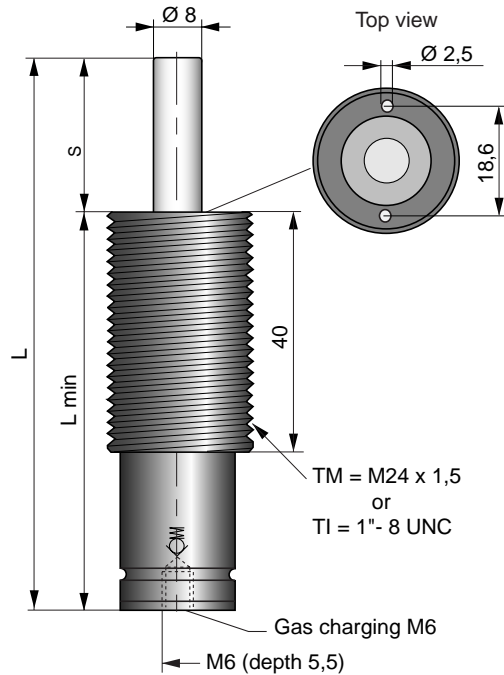
R 19

Dimensions

R19



R19 TM/TI (with threaded body)



Type	Charging pressure (bar)	Force in N + 20° C		Colour
		Initial	End force**	
R19 30	60	300	440	Green
R19 50	100	500	730	Blue
R19 70	140	700	1000	Red
R19 90	180	900	1300	Yellow
R19 XXX*	45-180	---	---	Black

* = Version where gas pressure could be customized between 45 and 180 bar.

** = At full stroke

S Stroke	L ± 0,25	L min
7	56	49
10	62	52
15	72	57
25	92	67
38	118	80
50	142	92
63,5	169	105,5
80	202	122

- The R19 Gas Springs are available in four preset models. Each spring is colour-coded for easy identification of force rating.
- We also offer a model (black) that can be customized to meet individual force requirements. This model may be set to desired pressure at the factory or by customers with charging equipment.

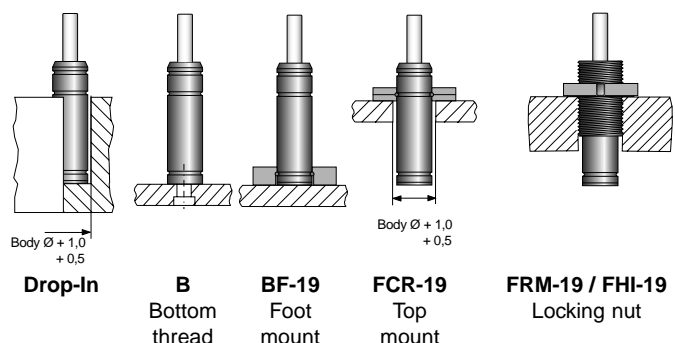
- It is possible to adjust the gas pressure on all R19 models, but it cannot be rebuilt as the spring body is roll formed around the internal components.
- The M6 thread in the base of the spring is used for filling and is also a mounting option.

Basic Information

Pressure medium	Nitrogen
Max. charging pressure	180 bar
Min. charging pressure	45 bar
Operating temperature	0 - +80°C
Force increase by temperature	±0,3%/°C
Recommended max strokes/min	~100-150 (at 20°C)
Max. piston rod velocity	0,8 m/s

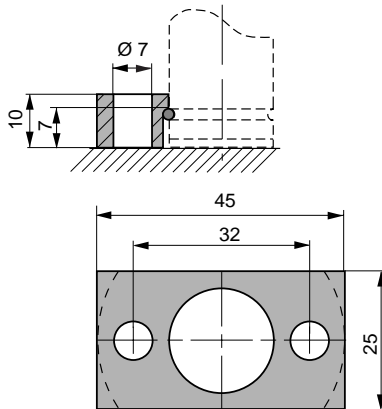
Surface tube	Black oxide
Surface rod	Chromium plated

Mounting possibilities

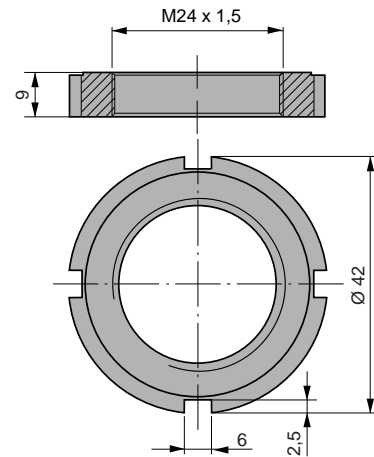


Dimensions mounts

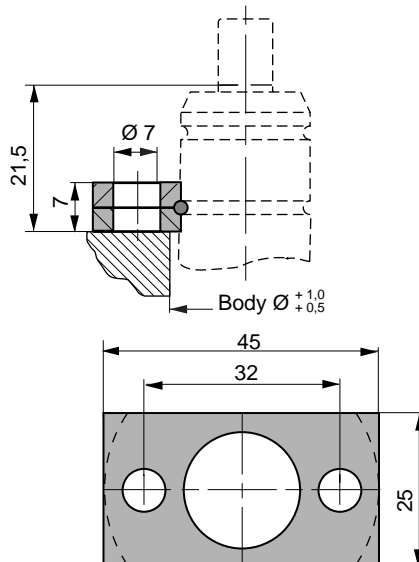
BF-19



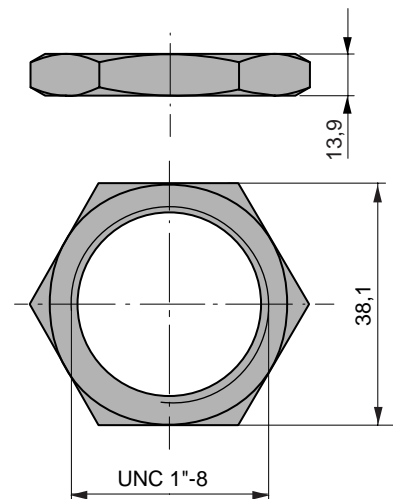
FRM-19



FCR-19



FHI-19



How to order

How to order

R19 TM 30-63,5

Model: R19

Threaded Body Style:
 TM = M24 x 1,5
 TI = UNC 1"-8

Stroke Length (mm)
 (07, 10, 15, 25, 38, 50, 63.5, 80)

Force: 30 = Green
 50 = Blue
 70 = Red
 90 = Yellow
 XXX = Black, state desired force in daN

Initial force

Calculation of filling pressure for R19-XXX, to achieve desired initial force:

X = Desired force in N

$$\text{Filling pressure} = 180 \cdot \frac{X}{900}$$

Example: An R19 spring to have a desired force of 500 N

$$\text{Filling pressure} = 180 \cdot \frac{500}{900} \approx 100 \text{ bar}$$

KALLER[®]

World Leader In Gas Springs for Metal Forming



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