

Rolling bellow, series BRB

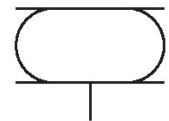
0822419123

AVENTICS
Series BRB
Bellow
actuators

2024-03-15

AVENTICS Series BRB Bellow actuators

The AVENTICS Series BRB cylinders are the cost-optimized variant for lower loads. They are hose rolling lobe air actuators with plastic connecting parts and bellows made of chloroprene elastomer. The Series BRB is distinguished by its lightweight and virtually constant force output over the stroke range.



Technical data

Industry	Industrial
Type	Flexible rolling bellow
Functional principle	Single-acting, retracted without pressure
Compressed air connection	G 3/8
Cover diameter	126.5 mm
Max. permissible angle of tilt	15 °
Max. effective stroke	85 mm
Min. radial installation space	170 mm
Min. installation height	95 mm
Max. installation height	180 mm
Min. force	5220 N
Max. force	5830 N
Min. working pressure	0.9 bar
Max. working pressure	8 bar
Min. ambient temperature	-30 °C
Max. ambient temperature	90 °C
Medium	Compressed air
Reduced service life at a temperature greater than	70 °C
Pressure for determining forces	6 bar

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Weight 0.7 kg

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Material

Material bellow	Chloroprene rubber
Material front cover	Polyamide fiber-glass reinforced
Material clamping ring	Steel, chrome-plated
Part No.	0822419123

Technical information

Compliance with the minimum height H_{min} . as well as the maximum height H_{max} . must be ensured with end stops.

Use at operating height $\geq H_{max}$: only permitted upon approval by AVENTICS

Further information on vibration isolation can be found in the "Technical information" document (available in the MediaCentre).

Rolling bellows cylinders may only be moved or pushed together under pressure, otherwise this can damage the bellows.

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

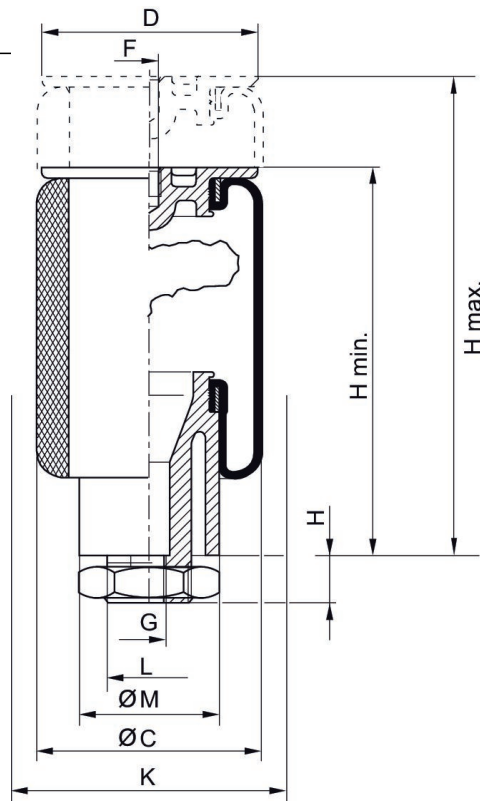
Dimensions

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Part No.	Compressed air connection G	H min. mm	H max. mm	C mm	D mm	F	K mm	L	Ø M [mm]
0822419120	G 3/8	95	195	80	76,5	M8 t=10	100	M30x1.5	50
0822419121	G 3/8	95	190	97	86,5	M8 t=10	115	M30x1.5	60.5
0822419122	G 3/8	95	180	123	106,5	M8 t=10	140	M30x1.5	81
0822419123	G 3/8	95	180	151	126,5	M8 t=10	170	M30x1.5	89
0822419124	G 3/8	95	185	173	147,9	M8 t=10	190	M30x1.5	114

Part No.	Min. return force N
0822419120	350
0822419121	450
0822419122	700
0822419123	900
0822419124	1300

t = depth of thread