

AVENTICS Series BCC Bellow actuators

The AVENTICS Series BCC cylinders are bellow cylinders with removable mounting parts. Users have the option of replacing the rubber bellows themselves. Mounting via internal thread or threaded bolt.

- Bellows actuators with removable connectors
- Permit high forces in small installation space
- Enables angular movements and axial offset



Technical data

Industry	Industrial
Bellows	triple
Type	Bellow actuator with mounting ring and cover
Functional principle	Single-acting, retracted without pressure
Compressed air connection	G 1/2
Cover diameter	260 mm
Feature	12x3
Max. permissible angle of tilt	30 °
Max. effective stroke	250 mm
Min. radial installation space	350 mm
Min. installation height	100 mm
Max. installation height	350 mm
Min. force	21000 N
Max. force	41000 N
Min. working pressure	0 bar
Max. working pressure	8 bar
Min. ambient temperature	-40 °C
Max. ambient temperature	70 °C
Medium	Compressed air

Reduced service life at a temperature greater than	50 °C
Pressure for determining forces	6 bar
Weight	6.9 kg

Material

Material bellow	caoutchouc/butadiene caoutchouc
Material front cover	Steel, chrome-plated
Surface cover	galvanized
Part No.	R412020602

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).

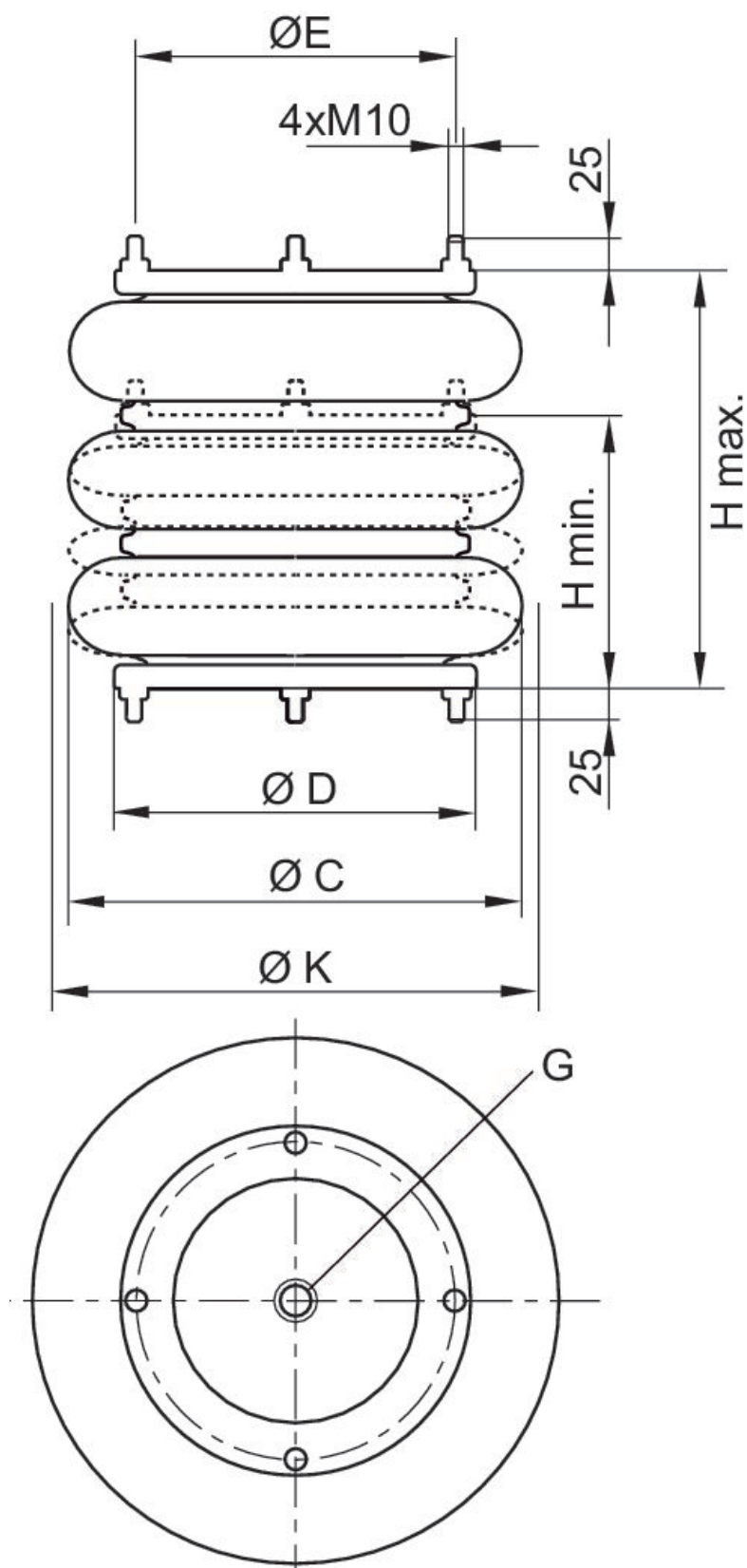
The bellow can be exchanged.

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>).

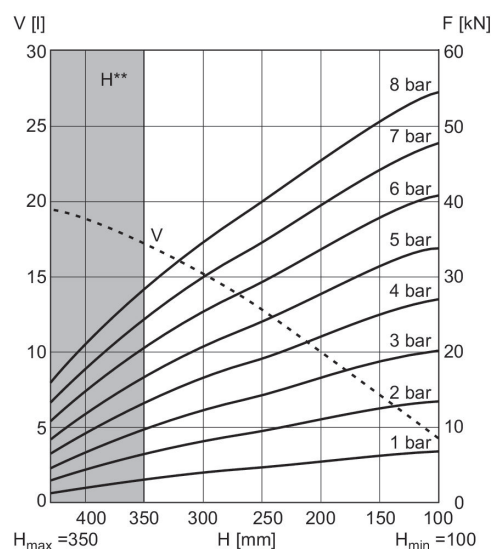
Dimensions



Part No.	Compressed air connection G	H min. mm	H max. mm	C mm	D mm	E mm	K mm	Min. return force N
R412020600	G 1/2	95	255	178	153,5	127	195	250
R412020601	G 1/2	100	305	230	184	155.5	245	350
R412000012	G 1/2	100	350	270	210	181	300	250
R412020602	G 1/2	100	350	330	260	232	350	250
R412020603	G 1/2	100	420	400	310	282.5	425	330
R412020604	G 1/2	120	475	430	310	282.5	455	100

Force-displacement diagram

R412020602



V = volume H = height H**= use permitted only upon approval by AVENTICS
1 kN = 1000 N