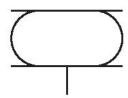
# Series BCP

## 0822419002

#### General series information AVENTICS Series BCP Bellow actuators

■ The AVENTICS Series BCP cylinders are bellow actuators with firmly flanged steel covers and bellows made of natural rubber in the standard version. The heat-resistant version is distinguished by bellows made of epichlorohydrin rubber (ECO) and the corrosion-resistant version by stainless steel covers (V2A).





#### Technical data

Industry Industrial Bellows single

Type Bellow actuator with cover

Functional principle Single-acting, retracted without pressure

Compressed air connection G 1/4
Cover diameter 108 mm

Permissible angle of tilt max. 15 °

Max. effective stroke 54 mm

Min. radial installation space 180 mm

Installation height, min. 51 mm
Installation height, max. 105 mm

Force min. 4500 N Force max. 7500 N

Working pressure min. 0 bar Working pressure max 8 bar



Min. ambient temperature -40 °C
Max. ambient temperature 70 °C

Medium Compressed air

Reduced service life at a temperature greater

than

Pressure for determining forces 6 bar Weight 1.2 kg

#### Material

Material bellow caoutchouc/butadiene caoutchouc

50 °C

Material front cover Steel, chrome-plated

Surface cover galvanized
Part No. 0822419002

#### Technical information

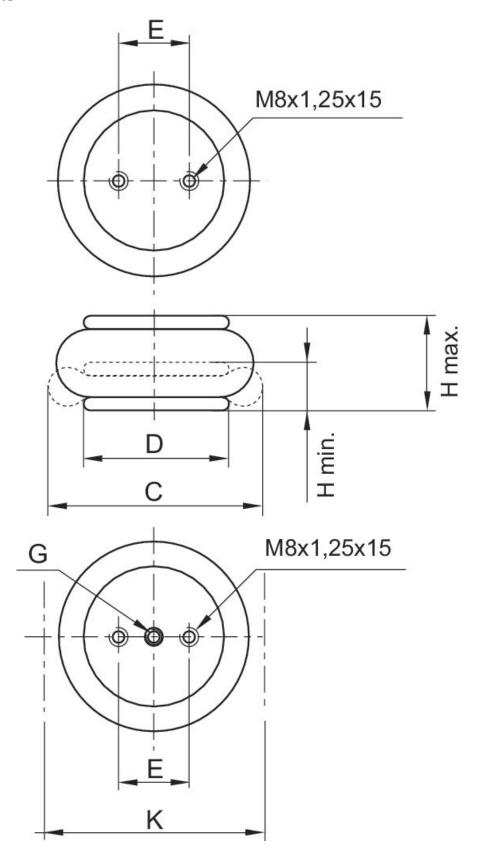
Compliance with the minimum height H min. as well as the maximum height H max. must be ensured with end stops.

Use at operating height ≥ Hmax: only permitted upon approval by AVENTICS

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



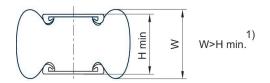
### **Dimensions**





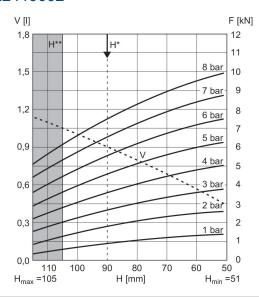
Part No.	Compressed air con- nection G	H min. mm	H max. mm	C mm	D mm	E ±0,5 [mm]	K mm	Return force, min. N
R412010198	G 1/4	51	85	150	108	44.5	165	250
0822419002	G 1/4	51	105	165	108	44.5	180	200
R412010199	G 1/4	51	130	210	114	44.5	225	45
0822419003	G 3/4	50	125	215	141	70	230	200
1923061000	G 3/4	51	130	231	141	70	245	200
R412010197	G 3/4	51	158	235	141	70	250	200

#### Comment



<sup>1)</sup> Once the minimum height H min. is reached, the bead height W can fall below the lower limit. If, for these products, level mounting surfaces greater than the cover diameter are selected, the return force and force output at the start of stroke increase. In the process, the rubber bellow is also compressed by the mounting surfaces. These products require more space upward, which can, in rare cases, present a hindrance. In any case, the specifications of the data sheets apply when using mounting surfaces in the size of the bellows actuator cover.

# Force-displacement diagram 0822419002



V = volume H = height H\* = recommended operating height for vibration isolation H\*\* = use permitted only upon approval by AVENTICS 1 kN = 1000 N



<sup>1</sup> kN = 1000 N