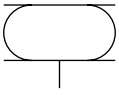
Rodless cylinders → Bellow actuator

Bellow actuator, BCR

► single ► Stroke: 94 - 135 mm

00134745

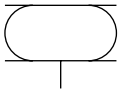


a23

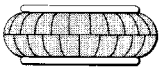
Version	Bellow actuator with mounting ring
Functional principle	Single-acting, retracted without pressure
Working pressure min./max.	0 bar / 8 bar
Ambient temperature min./max.	-40°C / +70°C
Medium temperature	-40°C / +70°C
Medium	Compressed air
Pressure for determining forces	6 bar
Materials:	
Bellow	caoutchouc/butadiene caoutchouc
Clamping ring	Aluminum
Mounting ring	Aluminum

Technical Remarks

- Compliance with the min. height Hmin. (B) and max. stroke (A) must be ensured with end stops.
- Use at operating height ≥ Hmax: only permitted upon approval by Bosch Rexroth
- For information on vibration insulators, see ‘’Technical Information’’
- reduced service life at a temperature greater than: 50 °C

	Stroke	Cover diameter	Min. installation space	Weight	Force min./max.	Part No.
	[mm]	[mm]	[mm]	[kg]	[kN]	
	107	384	480	5	41 - 78	2999697410
	94	451	570	7.3	67 - 107	2999696600
	102	517	620	8.7	90 - 137	2999697310
	135	638	760	11.1	131 - 229	1971132000
	122	890	1000	22	265 - 390	2999699610

bellow type



00133710

Rodless cylinders → Bellow actuator

Bellow actuator, BCR

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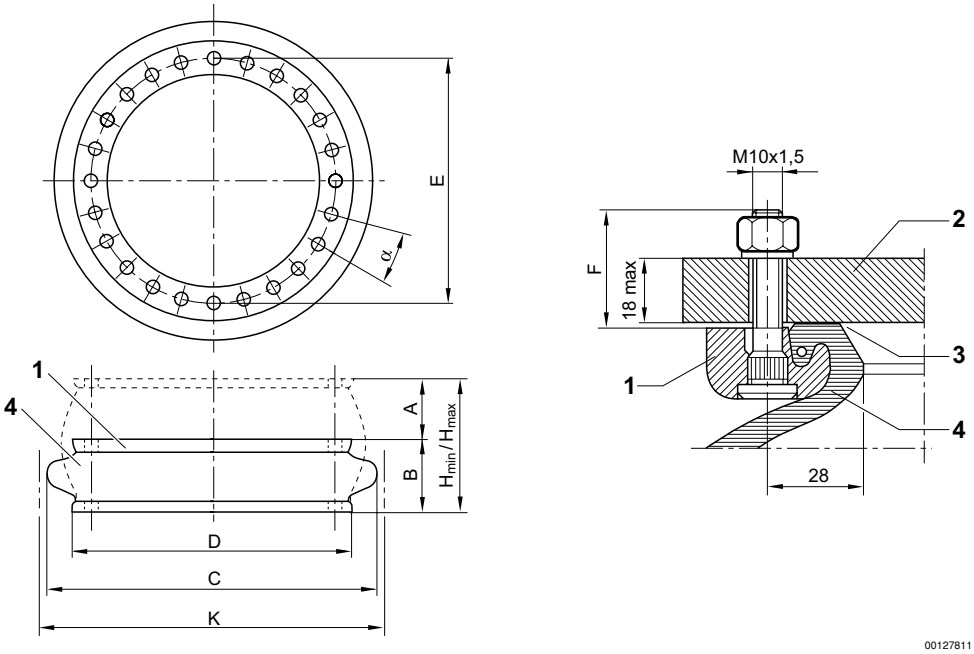
Dimensions



section of mounted bead ring with staybolt
1. mounting ring
2. machine part
3. sealing surface *)
4. bellow
* recommendation for surface finish:
if the surface is turned or cylindrically ground: Ra 6
if the surface is milled or surface ground: Ra 0,8
suitable tightening torque M8: 25 Nm; M10: 40 Nm; M16: 70 Nm
air connection in the mounting part

Part No.	A [mm]	B [mm]	C [mm]	D [mm]	E ±2 [mm]	α°	K [mm]	Return force, min. [N]				
2999697410	107	51	442	384	350	20	480	100				
2999696600	94	51	530	451	419	15	570	89				
2999697310	102	51	580	517	482	15	620	120				
1971132000	135	51	715	638	596	11.25	760	670				
2999699610	122	64	950	890	830	9	1000	1378				

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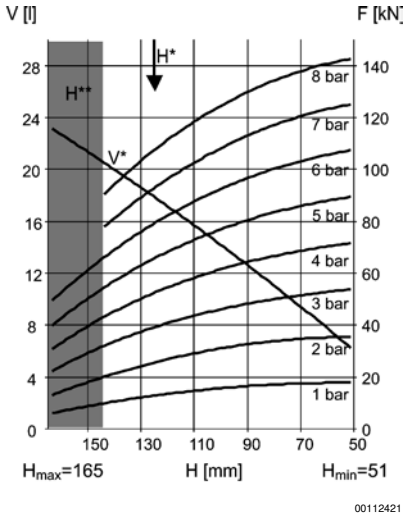
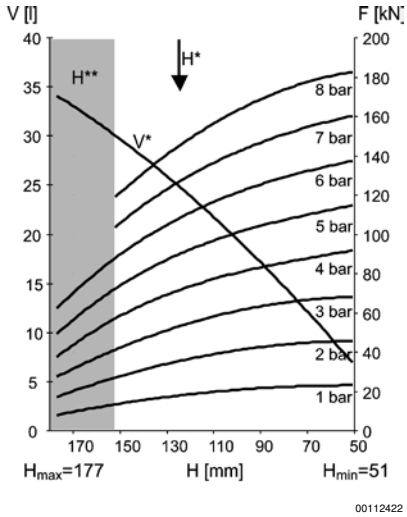
force-displacement diagram, 2999696600



V* = volume
H* = recommended operating height for vibration insulators
H** = use permitted only upon approval by Bosch Rexroth

force-displacement diagram, 2999697310



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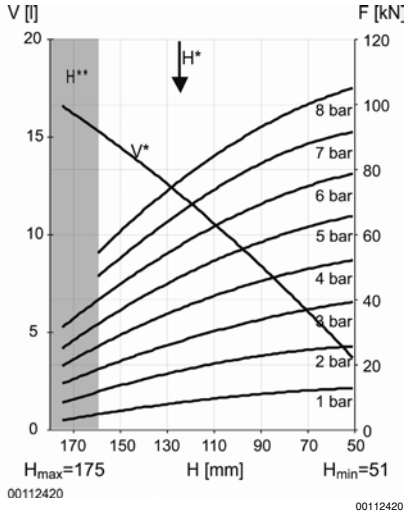
force-displacement diagram, 2999697410



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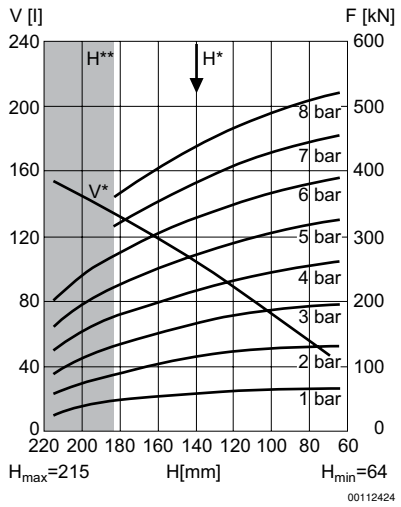
force-displacement diagram, 2999699610



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Bellow actuator, BCR

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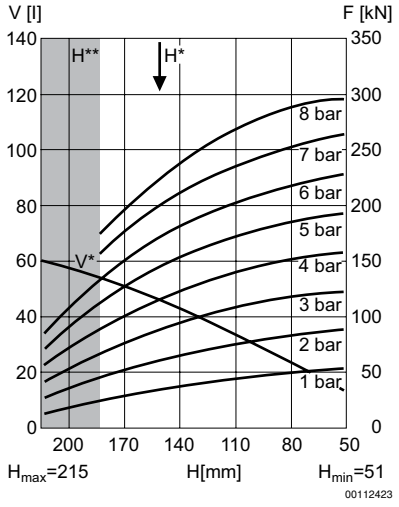
force-displacement diagram, 1971132000



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