Service

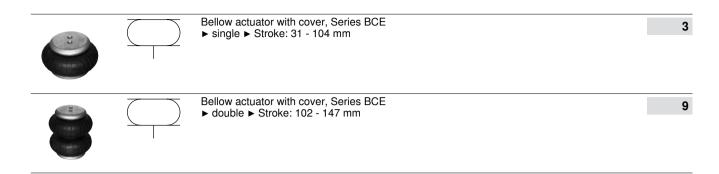
Rexroth Bosch Group

Rodless cylinders  $\rightarrow$  Bellow actuator Bellow actuator with cover, series BCE

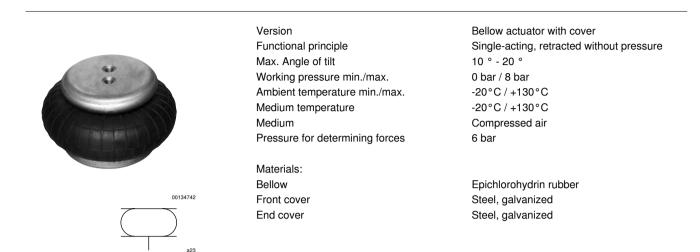
# Brochure



## Rodless cylinders → Bellow actuator Bellow actuator with cover, series BCE



## Bellow actuator with cover, Series BCE ► single ► Stroke: 31 - 104 mm



### **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: 115 °C

Compressed air connec- tion G		Cover diam- eter	Min. installa- tion space	Weight	Force min./ max.	Fig.	Part No.
	[mm]	[mm]	[mm]	[kg]	[kN]		
G 1/4	31	108	165	1.4	3.5 - 6.9	Fig. 1	R412010207
G 1/4	76	114	225	1.6	4.3 - 10.9	Fig. 1	R412010208
G 3/4	104	141	250	2.2	7 - 14	Fig. 1	R412010209
G 3/4	71	161	265	2.5	9.3 - 17.3	Fig. 2	R412010210
G 3/4	86	228	340	4	19.4 - 33.3	Fig. 2	R412010211
G 3/4	101	287	400	6.1	26.1 - 50	Fig. 3	R412010212

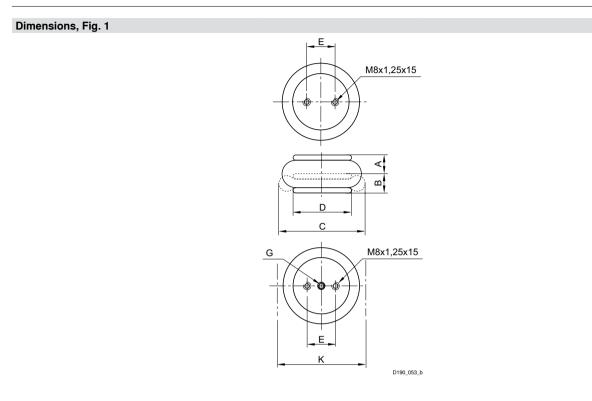
bellow type



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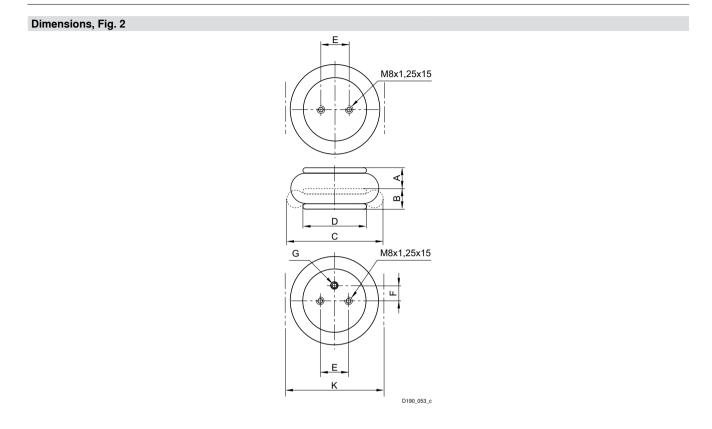
## Bellow actuator with cover, Series BCE

# ► single ► Stroke: 31 - 104 mm



Part No.	Compressed air connection G		B [mm]	C [mm]	D [mm]	E ±0,5 [mm]		Return force, min. [N]		
R412010207	G 1/4	31	54	150	108	44.5	165	250		
R412010208	G 1/4	76	54	210	114	44.5	225	45		.
R412010209	G 3/4	104	54	235	141	70	250	200		

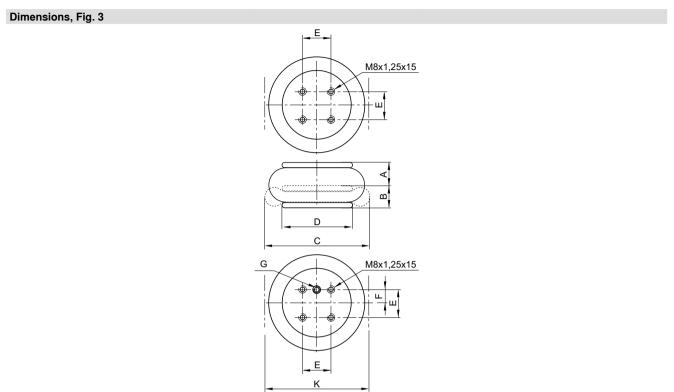
## Bellow actuator with cover, Series BCE ► single ► Stroke: 31 - 104 mm



Part No	<ul> <li>Compressed air connection G</li> </ul>		B [mm]	C [mm]	D [mm]	E ±0,5 [mm]	F ±0,5 [mm]	K [mm]	Return force, min. [N]	
R41201021	0 G 3/4	71	54	250	161	89	38.1	265	200	
R41201021	1 G 3/4	86	54	325	228	157.5	73	340	300	

## Bellow actuator with cover, Series BCE

# ► single ► Stroke: 31 - 104 mm



D190\_053\_d

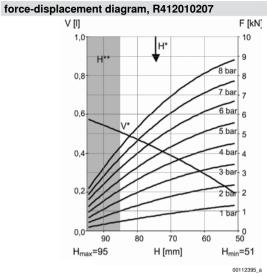
	Part No.	Compressed air connection G	A [mm]	B [mm]	C [mm]	D [mm]	E ±0,5 [mm]	F ±0,5 [mm]		Return force, min. [N]	
[	R412010212	G 3/4	101	54	385	287	158.8	79.4	400	300	

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## force-displacement diagram for simple bellow actuators

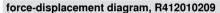
max. permissible parallel movement between the covers: 10 mm

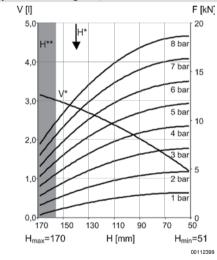
## Bellow actuator with cover, Series BCE ► single ► Stroke: 31 - 104 mm



V\* = volume

 $H^*$  = recommended operating height for vibration insulators  $H^{**}$  = use permitted only upon approval by Bosch Rexroth

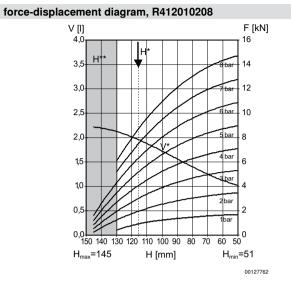




V\* = volume

 $H^{\star}$  = recommended operating height for vibration insulators  $H^{\star\star}$  = use permitted only upon approval by Bosch Rexroth

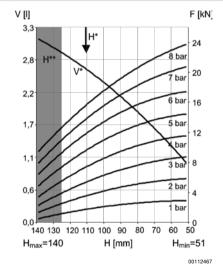
Pneumatics catalog, online PDF, as of 2012-10-23, © Bosch Rexroth AG, subject to change



V\* = volume

 $H^*$  = recommended operating height for vibration insulators  $H^{**}$  = use permitted only upon approval by Bosch Rexroth

### force-displacement diagram, R412010210



V\* = volume

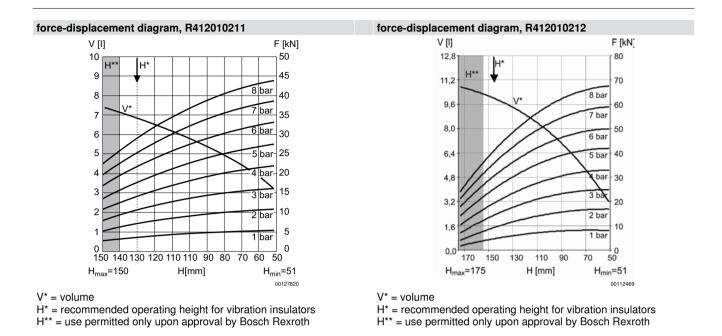
 $H^{\star}$  = recommended operating height for vibration insulators  $H^{\star\star}$  = use permitted only upon approval by Bosch Rexroth

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

# Bellow actuator with cover, Series BCE

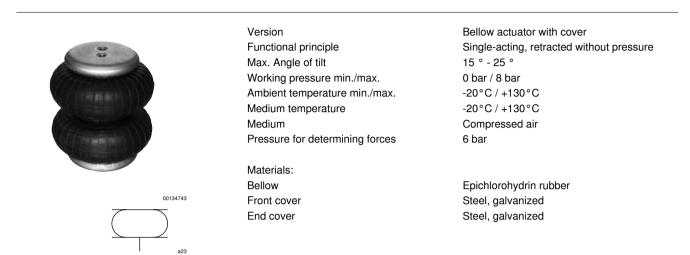
▶ single ▶ Stroke: 31 - 104 mm

8



# Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2012-10-23, © Bosch Rexroth AG, subject to change

## Bellow actuator with cover, Series BCE ► double ► Stroke: 102 - 147 mm



### **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: 115 °C

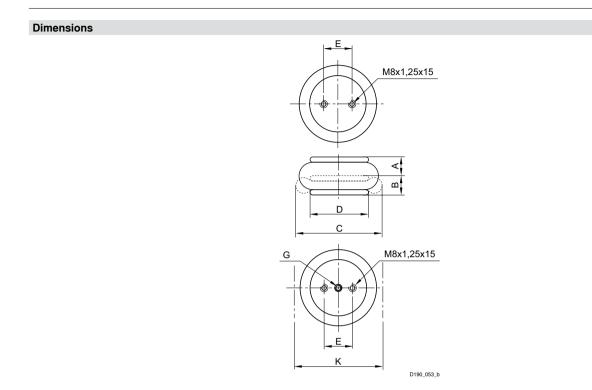
	Compressed air connec- tion G		Cover diam- eter	Min. installa- tion space		Force min./max.	Part No.
		[mm]	[mm]	[mm]	[kg]	[kN]	
	G 1/4	102	108	180	1.7	3.5 - 8.7	R412010213
	G 3/4	147	141	235	2.6	7.7 - 14.8	R412010214

### bellow type



# Bellow actuator with cover, Series BCE

► double ► Stroke: 102 - 147 mm



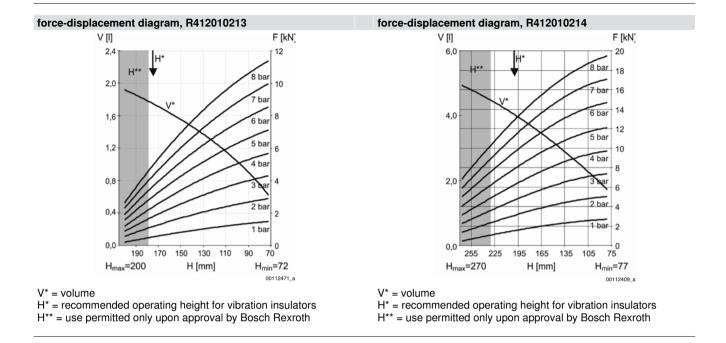
Part No.	Compressed air connection G	A [mm]	B [mm]	C [mm]	D [mm]	E ±0,5 [mm]	K [mm]	Return force, min. [N]		
R412010213	G 1/4	102	78	165	108	44.5	180	200		
R412010214	G 3/4	147	83	218	141	70	235	200		

### force-displacement diagram for double bellow actuators



max. permissible parallel movement between the covers: 20 mm

## Bellow actuator with cover, Series BCE ► double ► Stroke: 102 - 147 mm





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