



### CONTI® Single Convolution Air Springs

As actuators, these units have the lowest compressed height and can execute strokes of up to 129 mm and exert forces of up to 40kN.

As vibration isolators, they serve as laterally stable mountings with a favourable design height; they cover a natural frequency of between 2.3 and 3.8 Hz.



### CONTI® Double Convolution Air Springs

As actuators, they perform strokes of up to 400 mm and exert forces of up to 900 kN.

As isolators, they cover a natural frequency of between 1.7 and 2.6 Hz.



### CONTI® Triple convolution

As actuators, they perform strokes upto 440 mm from a very low compressed height and exert force of up to 400 kN.



### CONTI® Sleeve Type Air Springs

As actuators, these lightweight components execute strokes of up to 100 mm and can exert a constant force of up to 10 kN over the whole length of their stroke.

As vibration isolators, they have a natural frequency of about 2 Hz. They can only be used if laterally guided.

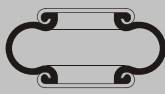

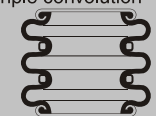
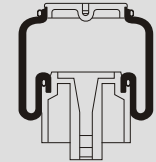
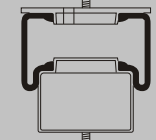


### CONTI® Rolling Lobe Air Springs

As actuators, these units perform strokes of up to 260 mm and can exert a constant force of up to 45 kN over the whole length of their stroke.

As vibration isolators, they have a natural frequency of between 1.2 and 1.6 Hz. They can only be used if laterally guided.

**CONTI® Air Actuator Data Table**

Designation	Type	Force at 8 bar			Maximum stroke mm	Minimum height mm	Required installation diameter mm
		at min. height	at half stroke	at Max stroke			
		kN	kN	kN			
 Single convolution	FS 40 - 6	7.4	5.3	2	60	50	160
	FS 50 - 5	9.1	6.4	2.1	44	51	165
	FS 70 - 7	10	8	5.2	64	51	180
	FS 120 - 10	19.6	15	4.6	99	51	245
	FS 200 - 10	24	18.5	9	89	51	265
	FS 330 - 11	44	37	23	99	51	340
	FS 530 - 11	68	56	23	124	51	400
 Double convolution	FD 40 - 10	7.4	5.5	2.5	100	70	160
	FD 70 - 13	11.5	8	2.7	128	72	180
	FD 120 - 20	20	14.8	5.5	193	77	235
	FD 200 - 19	26.5	18	5.5	200	75	265
	FD 330 - 22	46	35.5	14	230	75	340
	FD 530 - 22	66	55	22	233	77	400
	FD 960 - 22 <sup>1)</sup>	107	85	31	226	84	490
	FD 1330 - 25 <sup>1)</sup>	145	114	54	246	84	570
	FD 1710 - 25 <sup>1)</sup>	186	150	62	251	84	620
	FD 1730 - 40 <sup>1)</sup>	161	135	55	400	100	650
	FD 2380 - 24 <sup>1)</sup>	245	205	108	231	84	710
	FD 2870 - 30 <sup>1)</sup>	278	245	110	271	84	760
	FD 5450 - 28 <sup>1)</sup>	525	440	270	283	107	1000
 Triple convolution	FT 330 - 29	46	36	18	320	110	345
	FT 530 - 32	71	56	25	325	110	410
	FT 530 - 35	77	57	27	395	115	430
	FT 960 - 34 <sup>1)</sup>	110	85	40	336	114	510
	FT 5450 - 44 <sup>1)</sup>	520	440	280	440	140	1000
 Sleeve type	SK 19 - 4	1.42	1.08	0.25	33	30	70
	SK 37 - 6	3	3	1.2	46	38	100
	SZ 35 - 11	2.2	2.2	1.9	110	95	100
	SZ 50 - 11	3.3	3.3	2.8	105	95	115
	SZ 70 - 11	5.7	5.75	5	105	95	140
	SZ 100 - 11	7.8	7.8	5.4	105	95	170
	SZ 140 - 11	11	11	8	105	95	190
 Rolling lobe	RZ 330 - 22	28.8	28.8	21	215	165	285
	RZ 640 - 26	55	55	40	280	180	385

1) With bead rings

**CONTI® Air Isolator Data Table**

Load at recommended operating height [kN]		Natural frequency at recommended operating height [Hz]		Recommended operating height mm	Required installation diameter mm
5 bar	8 bar	5 bar	8 bar		
2.8	4.4	3.3	3.2	90	160
3.8	6.08	3.7	3.6	75	165
4.7	7.7	2.9	2.7	90	180
8.2	13.3	2.6	2.5	115	245
9.6	15.7	2.6	2.6	110	265
17.8	29	2.4	2.3	130	340
26.5	42.2	2.4	2.3	145	400
1.95	3.2	2.7	2.7	160	160
3.1	5	2.5	2.5	175	180
7.8	12.7	1.8	1.7	205	235
9	14.5	1.9	1.9	210	265
16.7	27.6	1.8	1.7	240	340
25.8	42	1.8	1.7	250	400
45.6	71.5	1.6	1.6	240	490
65.3	103.9	1.6	1.5	240	570
86.6	136.6	1.6	1.5	240	620
114.9	186.1	1.6	1.5	240	710
138.7	217.6	1.5	1.4	265	760
260.8	415.3	1.4	1.3	280	1000
0.72	1.15	3.3	3.2	45	70
1.9	3.1	2.7	2.6	60	100
1.4	2.25	2.1	2	150**	100
2	3.3	1.9	1.9	150**	115
3.5	5.7	2	1.9	150**	140
4.7	7.8	1.9	1.8	150**	170
6.7	10.9	2.2	2.1	140**	190
18	29.7	1.5	1.5	290**	285
33.5	54.2	1.2	1.2	350**	385

\*\* Can only be used if laterally guided