

**AIR SPRING CYLINDERS CONTINENTAL  CONTITECH**

**MODELS**

Series **C** WITH PERMANENTLY MOUNTED CONNECTION PARTS



Series **D** WITH REMOVABLE CONNECTING PARTS



Series **R** WITH BEAD RING CONNECTING PARTS



Series **S** ROLLING LOBE WITH PLASTIC CONNECTION PARTS



**SPECIAL TYPES**

**1**

Temperature-resistant from -30°C to +70°C

Available for standard series S and for some special versions of series C, D and

**2**

(EPICHLORHYDRIN)

Temperature-resistant till +115°C with max +130°

Available in some models of series C, D and R

**3**

With stainless steel connecting parts

High resistance to acids, chemicals and cleaning agents

Available in some models of series C

**4**

Pressure range from 0 to 12 bar

On request available till 16 bar

## AIR SPRING CYLINDERS CONTINENTAL CONTITECH

Series **C** WITH PERMANENTLY MOUNTED CONNECTION PARTS



### SINGLE CONVULSION

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	Max stroke (mm)	PNEUMATIC			VIBRATION ISOLATION		
					force = 8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency at rec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
FS 40-6CI	50	145	160	60	6,9	5,2	2,4	90	4,4	3,1
FS 50-5CI	51	150	165	44	9,0	5,4	2,2	75	6,1	3,6
FS 70-7CI	51	165	180	64	9,9	7,5	5,2	90	7,5	2,7
FS 100-10CI	51	210	225	94	14,7	11,0	1,6**	115	8,8	2,6
FS 120-9CI	50	215	230	85	17,7	12,4	6,6	110	10,9	2,6
FS 120-10CI	51	231	245	99	19,5	15,0	4,6	115	13,3	2,5
FS 120-12CI	51	235	250	119	18,7	15,9	7,2	140	12,3	2,3
FS 200-10CI	51	250	265	89	23,8	17,5	9	110	15,7	2,6
FS 330-11CI	51	325	340	99	43,9	36,7	22,4	130	29,0	2,3
FS 330-14CI	51	343	360	129	47,3	37,8	13	140	31,4	2,2
FS 530-11CI	51	385	400	124	68,4	53,0	20,8	145	42,2	2,3
FS 530-14CI	51	405	420	134	69,6	60,2	35,2	150	50,8	2
FS 960-12CI	63	450	480	117	98,3	78,2	40,4	130	78,2	2,1
FS 1330-11CI	63	530	570	107	141,6	121,9	63,2***	131	110,9	2,0

### DOUBLE CONVULSION

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	Max stroke (mm)	PNEUMATIC			VIBRATION ISOLATION		
					force = 8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency at rec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
FD 40-10CI	70	145	160	100	7,4	5,5	2,5	160	3,2	2,7
FD 70-13CI	72	165	180	128	11,6	7,8	2,6	175	5,2	2,4
FD 110-15CI	72	203	215	156	16,5	10,5	2,9	175	9,2	2,1
FD 120-17CI	75	215	230	155	18,0	13,1	6,3	190	10,6	2,0
FD 120-20CI	77	218	235	193	19,6	14,4	6,6	205	12,6	1,7
FD 200-19CI	75	250	265	200	26,1	18,3	5,7	210	14,5	1,9
FD 200-22CI	77	255	265	218	26,2	17,6	7,0	220	16,5	1,6
FD 200-25CI	77	260	275	248	25,4	18,8	8,2	254	16,5	1,7
FD 330-22CI	75	325	340	230	46,4	33,8	14,3	240	27,6	1,7
FD 330-30CI*	77	340	355	283	49,0	39,6	13,7	-	-	-
FD 530-22CI	77	385	400	233	65,5	52,9	21,8	250	42,0	1,7
FD 530-30CI	77	400	415	273	71,2	56,4	21,6	260	48,2	1,5
FD 530-35CI	77	405	420	313	74,8	57,9	21**	285	51,0	1,4
FD 960-22CI	95	444	490	225	101	81,1	37	240	75,3	1,6
FD 1330-25CI	92	518	570	243	145,4	113	46,5***	246	107,2	1,5

### TRIPLE CONVULSION

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	Max stroke (mm)	PNEUMATIC			VIBRATION ISOLATION		
					force = 8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency at rec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
FT 330-29CI	110	325	345	320	46,4	33,7	17,8	-	-	-
FT 430-32CI	115	330	355	315	53,4	39,2	17,0	-	-	-
FT 530-32CI	110	384	410	325	69,3	54,6	24,7	-	-	-
FT 530-35CI	115	405	430	395	77,0	53,8	27,2	-	-	-
FT 960-34CI	120	462	510	335	99,9	77,2	32,0	-	-	-
FT 1330-35CI	120	521	570	350	148,2	119,6	26,3***	-	-	-

Triple convulution bellow are not suitable for vibration isolation

\* not suitable for vibration isolation

\*\* at p = 6 bar (max recommended pressure)

\*\*\* at p = 7 bar (max recommended pressure)

## AIR SPRING CYLINDERS CONTINENTAL CONTITECH

### Series **D** WITH REMOVABLE CONNECTING



#### SINGLE CONVULSION

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	Max stroke (mm)	PNEUMATIC			VIBRATION ISOLATION		
					force =8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency atrec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
FS 22-3DICR	50	80	95	20	3,3	2,3	1,3	60	2,3	4,4
FS 44-5DICR	50	125	140	40	7,4	4,5	2,0	70	4,5	3,8
FS 76-7DICR	55	175	190	55	15,0	8,7	4,8	90	8,7	3,3
FS 76-7DSCR	50	175	190	55	15,0	9,6	4,8	85	8,7	3,3
FS 138-8DS	50	230	245	80	25,0	15,3	8,6	100	15,3	2,8
FS 210-10DS	50	280	300	100	33,8	24,4	11,5	120	19,3	2,5
FS 412-10DS	50	330	350	100	51,8	38,3	18,6	120	31,4	2,4
FS 614-13DS	50	400	425	125	77,4	50,2	20,2**	130	50,2	2,3
FS 816-15DS	50	420	445	140	80,8	61,0	25,6***	150	52,3	2,1

#### DOUBLE CONVULSION

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	Max stroke (mm)	PNEUMATIC			VIBRATION ISOLATION		
					force =8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency atrec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
FD 22-4DICR	65	80	95	45	3,0	1,9	0,8	90	1,9	3,4
FD 44-10DICR	65	125	140	85	7,4	4,5	1,7	130	3,3	2,8
FD 76-14DICR	80	178	195	115	14,9	9,3	4,3	160	7,6	2,3
FD 76-14DSCR	75	178	195	115	14,5	9,3	4,7	155	7,8	2,2
FD 138-18DS	75	230	245	175	24,7	11,3	5,0	200	11,3	2,0
FD 209-21DS	75	255	270	205	31,2	18,5	7,5***	220	15,7	1,8
FD 210-22DS	75	270	300	225	35,0	21,1	7,1***	220	18,7	1,7
FD 412-18DS	75	330	350	225	53,6	36,1	15,4	220	32,8	1,7
FD 614-26DS	75	400	425	265	79,0	52,6	19,7***	250	48,4	1,6
FD 816-30DS	75	435	460	315	84,2	58,4	21,1***	300	48,7	1,4

#### TRIPLE CONVULSION

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	Max stroke (mm)	PNEUMATIC			VIBRATION ISOLATION		
					force =8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency atrec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
FT 22-6DICR	80	80	95	60	2,7	2,0	0,8	-	-	-
FT 44-15DICR	90	125	140	110	6,9	4,5	2,3	-	-	-
FT 76-20DICR	100	178	195	190	14,7	8,8	3,5	-	-	-
FT 76-20DSCR	95	178	195	160	14,7	8,8	3,5	-	-	-
FT 138-26DS	100	230	245	250	24,6	14,9	6,9	-	-	-
FT 210-32DS	100	270	300	330	35,3	19,8	7,9***	-	-	-
FT 412-32DS	100	330	350	330	54,6	34,7	15,9	-	-	-
FT 816-40DS	120	430	455	430	85,7	60,0	24,5***	-	-	-
FT 614-36DS	100	400	425	380	79,1	53,4	19,2***	-	-	-

Triple convulsion bellow are not suitable for vibration isolation

\* not suitable for vibration isolation

\*\* at p = 6 bar (max recommended pressure)

\*\*\* at p = 7 bar (max recommended pressure)

## AIR SPRING CYLINDERS CONTINENTAL CONTITECH

Serie **R** WITH BEAD RING CONNECTING PARTS 

### SINGLE CONVULSION

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	Max stroke (mm)	PNEUMATIC			VIBRATION ISOLATION		
					force =8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency atrec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
FS 960-12RS	51	442	480	124	104,0	78,3	31,3**	125	76,1	2,1
FS 1330-11RS	51	530	570	114	142,4	119,0	66,1	125	107,6	2,2
FS 1710-12RS	51	580	620	126	182,5	147,2	61,4**	125	145,7	2,1
FS 2870-16RS	51	715	760	164	298,0	238,0	81,0**	150	224,9	1,8
FS 5450-16RS	64	950	1000	151	520,1	437,9	200,8**	140	437,9	1,9

### DOUBLE CONVULSION

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	Max stroke (mm)	PNEUMATIC			VIBRATION ISOLATION		
					force =8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency atrec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
FD 960-22RS	84	444	490	226	106,3	84,1	21,8**	240	71,4	1,6
FD 1120-30RI*	90	510	550	315	120,0	89,3	25,7***	-	-	-
FD 1330-25RS	84	518	570	246	144,2	114,0	50,7***	240	103,9	1,5
FD 1710-25RS	84	577	620	251	185,4	137,6	48**	240	137,6	1,5
FD 1730-40RI*	100	610	650	400	161,1	134,1	54,1	-	-	-
FD 2380-24RS	84	660	710	231	241,3	202,8	80,3**	240	184,0	1,5
FD 2470-40RI*	100	710	750	400	246,0	209,2	117,0	-	-	-
FD 2870-30RS	84	709	760	271	276,6	232,0	87,8**	265	218,3	1,4
FD 5450-28RS	107	950	1000	283	515,5	410,7	206**	280	410,7	1,3

### TRIPLE CONVULSION

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	Max stroke (mm)	PNEUMATIC			VIBRATION ISOLATION		
					force =8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency atrec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
FT 960-34RS	114	462	510	336	109,0	77,2	29,5**	330	73,9	1,3
FT 1330-35RS*	114	521	570	356	148,7	115,6	38**	-	-	-
FT 1710-38RS*	114	580	630	356	187,5	149,1	61,8**	-	-	-
FT 2870-45RS	115	720	770	455	289,0	231,0	46,2**	380	221,1	-
FT 5450-44RS*	140	950	1000	440	526,7	448,0	218,1**	-	-	-

\* not suitable for vibration isolation

\*\* at p = 6 bar (max recommended pressure)

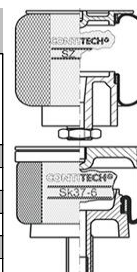
\*\*\* at p = 7 bar (max recommended pressure)

## AIR SPRING CYLINDERS CONTINENTAL CONTITECH

Serie **S** ROLLING LOBE WITH PLASTIC CONNECTION PART 

LIGHTWEIGHT AND INEXPENSIVE AIR ACTUATOR

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	PNEUMATIC				VIBRATION ISOLATION		
				Max stroke (mm)	force =8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency atrec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
SK 19-4	30	60	70	33	1,4	0,8	0,4	45	1,2	3,2
SK 37-6 P02	38	88	100	46	3,1	2,6	1,5	60	2,9	2,6
SK 37-8 P02	38	88	100	72	3,1	3,0	1,2	75	3,0	2,3
SK 37-10 P02*	65	100	120	95	3,5	3,0	0,5**	-	-	-
SZ 35-11	95	80	100	110	2,2	2,2	1,9	150	2,2	2
SZ 50-11	95	97	115	105	3,3	3,3	2,8	150	3,3	1,9
SZ 70-11	95	123	140	105	5,7	5,7	5	150	5,7	1,9
SZ 100-11	95	151	170	105	7,8	7,8	5,4	150	7,8	1,8
SZ 140-11	95	173	190	105	11	10,9	7,9	140	11,0	2,1



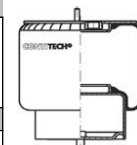
\* not suitable for vibration isolation

\*\* at p = 6 bar (max recommended pressure)

### OTHER TYPE WITH ROLLING LOBE - ON REQUEST

- WELL-PROVEN COMMERCIAL VEHICLE CONSTRUCTION WITH LARGE LIFTING DISTANCE

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	PNEUMATIC				VIBRATION ISOLATION		
				Max stroke (mm)	force =8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency atrec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
RZ 330-22	165	260	285	215	29,7	29,7	21,0	290	29,7	1,5
RZ 640-26	180	360	385	280	55	55	40,0	350	54,2	1,2



- FOR VIBRATION ISOLATION ON HEAVY MACHINES AND FOUNDATIONS

TYPE	Min design height (mm)	Max diameter (mm)	Installation spece required (mm)	PNEUMATIC				VIBRATION ISOLATION		
				Max stroke (mm)	force =8 bar			rec. working height (mm)	max load at rec. working height at 8 bar (kN)	natural frequency atrec. working height at 8 bar (Hz)
					min heigh (kN)	half stroke (kN)	max stroke (kN)			
LG 1320-8	270	510	550	80	103	104	104	300	104	1,5
LG 2050-8	270	610	680	80	163	165	166	300	165	1,3
LG 3050-10	270	720	750	100	235	244	248	300	244	1,3
LG 4080-8	270	845	900	80	320	330	340	300	329	1,4

