

Air bellows are the ideal choice for applications requiring short stroke, high thrust single acting actuators.

Manufactured from fabric reinforced synthetic rubber in one, two or three convolutions according to stroke and model. They incorporate no reciprocating metal parts and so provide virtually frictionless thrust compared with conventional pneumatic cylinders.

- 10 sizes, diameters 70-660 mm
- Strokes from 45 to 375 mm
- Single, double or triple convolutions
- High thrust and frictionless movement
- Maintenance free



Operating information

Working pressure:	Max 8 bar
Working temperature:	-30°C to +70°C
High temperature version	
Working temperature:	-30°C to +115°C
Operation:	Dry air




It is recommended that external mechanical stops are used to limit the stroke. The units should not achieve maximum stroke or be allowed to 'bottom out'.
Air Bellows may not be stacked, use singly only.


Air bellows are suitable for vibration applications i.e. device feeders at high frequency.

For more information see www.parker.com/euro_pneumatic

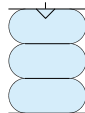
Single convolution

Symbol	Ø mm (inches)	Port size	Max force (N) at 1 bar (0 stroke)	Max stroke mm	Order code
	110 (4½ x 1)	G3/8	1150	45	9109400
	150 (6 x 1)	G1/2	1900	55	9109004A
	200 (8 x 1)	G1/2	3200	75	9109014
	250 (10 x 1)	G1/2	5000	100	9109024
	300 (12 x 1)	G1/2	6500	100	9109044
	370 (14½ x 1)	G1/2	9600	115	9109064

Double convolution

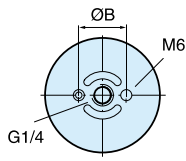
Symbol	Ø mm (inches)	Port size	Max force (N) at 1 bar (0 stroke)	Max stroke mm	Order code
	70 (2¾ x 2)	G1/4	400	50	9109009
	110 (4½ x 2)	G3/8	900	80	9109401
	150 (6 x 2)	G1/2	1800	112	9109001A
	200 (8 x 2)	G1/2	3000	180	9109011
	250 (10 x 2)	G1/2	4800	200	9109021
	300 (12 x 2)	G1/2	6800	195	9109041
	370 (14½ x 2)	G1/2	10000	225	9109061
	410 (16 x 2)	G1/2	11400	250	9109171
	550 (21½ x 2)	G3/4	24000	300	9109150
	660 (26 x 2)	G3/4	30800	310	9109156

Triple convolution

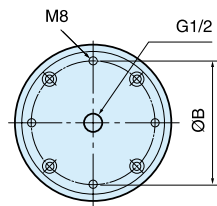
Symbol	Ø mm (inches)	Port size	Max force (N) at 1 bar (0 stroke)	Max stroke mm	Order code
	70 (2¾ x 3)	G1/4	370	65	9109010
	110 (4½ x 3)	G3/8	900	100	9109402
	150 (6 x 3)	G1/2	1800	173	9109007A
	200 (8 x 3)	G1/2	3000	225	9109017
	250 (10 x 3)	G1/2	4800	300	9109031
	300 (12 x 3)	G1/2	6800	330	9109051
	370 (14½ x 3)	G1/2	10200	350	9109069
	410 (16 x 3)	G1/2	10500	375	9109177

Dimensions (mm)

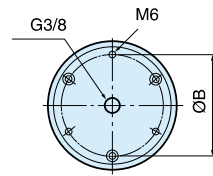
Ø70 mm (2¾")
 Aluminium end plate version



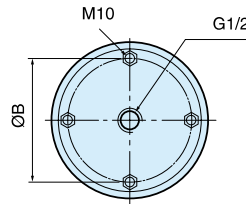
Ø150 mm (6")
 Aluminium end plate version



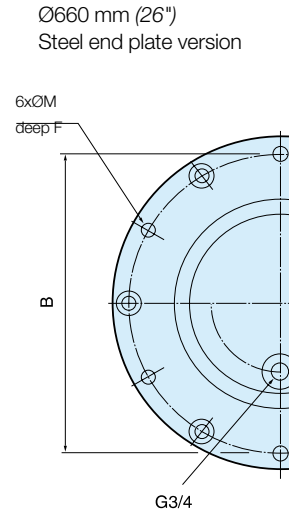
Ø110 mm (4½")
 Aluminium end plate version



Ø200-410 mm (8-16")
 Aluminium end plate version



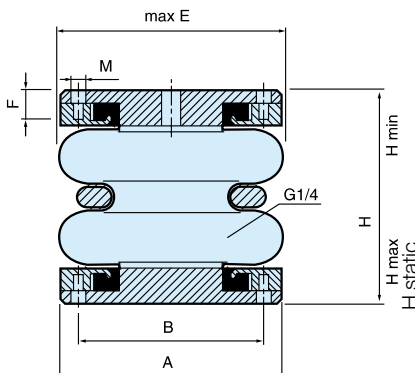
Ø550 mm (21½")
 Steel end plate version



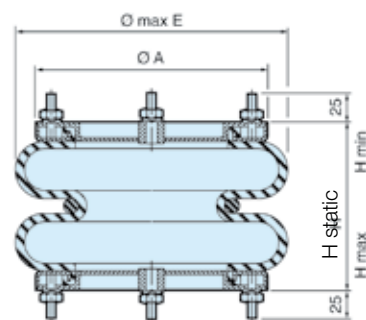
Ø660 mm (26")
 Steel end plate version

Ø	Number of convolutions	H min	H static	H max	Stroke max	ØE max	ØA	ØB	ØM	F
70	2	65	90	115	50	80	78	36	M6	9
70	3	80	110	145	65	80	78	36	M6	9
110	1	45	65	90	45	125	110	93	M6	13
110	2	65	100	145	80	125	110	93	M6	13
110	3	100	145	200	100	125	110	93	M6	13
150	1	50	80	105	55	175	155	127	M8	16
150	2	78	130	190	172	175	155	127	M8	16
150	3	102	190	275	173	175	155	127	M8	16
200	1	50	90	125	75	230	184	155,5	M10	
200	2	70	160	250	180	230	184	155,5	M10	
200	3	100	205	325	225	230	184	155,5	M10	
250	1	50	100	150	100	280	210	181	M10	
250	2	70	170	270	250	280	210	181	M10	
250	3	100	250	400	300	280	210	181	M10	
300	1	50	100	150	100	330	260	232	M10	
300	2	75	170	270	195	330	260	232	M10	
300	3	100	250	430	330	330	260	232	M10	
370	1	50	110	165	115	395	310	282,5	M10	
370	2	70	180	295	225	395	310	282,5	M10	
370	3	100	280	450	350	395	310	282,5	M10	
410	2	75	200	325	250	440	310	282,5	M10	
410	3	125	300	500	375	440	310	282,5	M10	
550	2	90	200	390	300	580	498,5	470	M10	19
660	2	90	200	400	310	700	498,5	470	M10	19

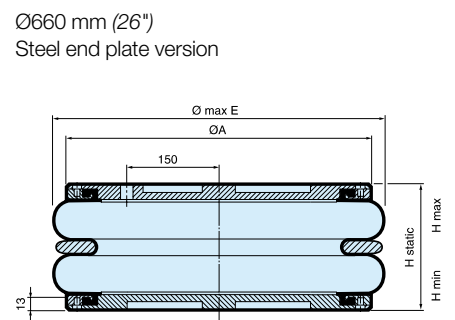
Ø70-150 mm (2¾-6")



Ø200-410 mm (8-16")
 Steel end plate version



Ø550 mm (21½")
 Aluminium end plate version



Ø660 mm (26")
 Steel end plate version