

**Dunlop Type
Rubber Airspring
Bellows Actuators**

PNEUSPRING

Cross Reference Chart

D SERIES	FIRESTONE	DUNLOP PNEURIDE	DUNLOP SPRINGRIDE	CONTITECH	NORGREN	PARKER
4 1/2" x 1	W01R584050	4 1/2" x 1	SP2334	FS 44-5 DI	PM/31041	9109400
4 1/2" x 2	W01R584051	4 1/2" x 2	SP2441	FD 44-10 DI	PM/31042	9109401
4 1/2" x 2-E						
4 1/2" x 3-E	W01R584035	4 1/2" x 3	SP2895	FT 44-15 DI	PM/31043	9109402
6" x 1 (Al)	W01R584078	6" x 1 (Al)	SP2913	FS 76-7 DI	PM/31061	9109004A
6" x 1 (Steel)	W01R584052	6" x 1 (Steel)	SP1536	FS 76-7 DS	M/31061	9109004
6" x 2 (Al)	W01R584070	6" x 2 (Al)	SP2917	FD 76-14 DI	PM/31062	9109001A
6" x 2 (Steel)	W01R584053	6" x 2 (Steel)	SP1482	FD 76-14 DS	M/31062	9109001
6" x 3 (Al)		6" x 3 (Al)	SP2923	FT 76-20 DI	PM/31063	9109007A
6" x 3 (Steel)	W01R584095	6" x 3 (Steel)	SP2861	FT 76-20 DS	M/31063	9109007
8" x 1	W01R584054	8" x 1	SP1537	FS 138-8 DS	M/31081	9109014
8" x 2	W01R584055	8" x 2	SP1490	FD 138-18 DS	M/31082	9109011
8" x 3	W01R584056	8" x 3	SP2863	FT 138-26 DS	M/31083	9109017
10" x 1	W01R584057	10" x 1	SP2523	FS 210-10 DS	M/31101	9109024
10" x 2	W01R584058	10" x 2	SP1538	FD 210-22 DS	M/31102	9109021
10" x 3	W01R584059	10" x 3	SP1539	FT 210-32 DS	M/31103	9109031
12" x 1	W01R584060	12" x 1	SP1540	FS 412-10 DS	M/31121	9109044
12" x 2	W01R584061	12" x 2	SP1541	FD 412-22 DS	M/31122	9109041
12" x 2-E	W01R584039	12" x 2 Extend.				
12" x 3	W01R584062	12" x 3	SP1542	FT 412-32 DS	M/31123	9109051
14" 1/2x 1	W01R584063	14" 1/2 x 1	SP1543	FS 614-13 DS	M/31141	9109064
14" 1/2 x 2	W01R584064	14" 1/2 x 2	SP1556	FD 614-26 DS	M/31142	9109061
14" 1/2 x 3	W01R584065	14" 1/2 x 3	SP1558	FT 614-36 DS	M/31143	9109069
16" x 1	W01R584066	16" x 1		FS 816-15 DS	M/31161	9109026
16" x 2	W01R584067	16" x 2	SP1557	FD 816-30 DS	M/31162	9109171
16" x 3	W01R584068	16" x 3	SP2141	FT 816-40 DS	M/31163	9109177
21" 1/2 x 2		21" 1/2 x 2	SP1408		M/31212	9109153
26" x 2		26" x 2	SP2342		M/31262	9109159

- The air bellows have identical port and mounting thread dimension and location.
- This chart is for a quick reference only. Please review catalogs for actual calculations.
- The name of manufacturers mentioned are given for cross-reference purposes only.



Further Information:

Interflex Hose & Bellows Ltd. • www.interflex.co.uk
 Ludlow Eco Park • Ludlow • Shropshire • SY8 1FF • United Kingdom
 Tel: +44 (0)1584 878500 • Email: airsprings@interflex.co.uk

PNEUSPRING

2¾" × 1

General information

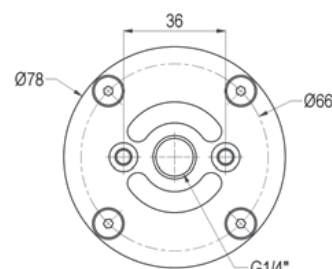
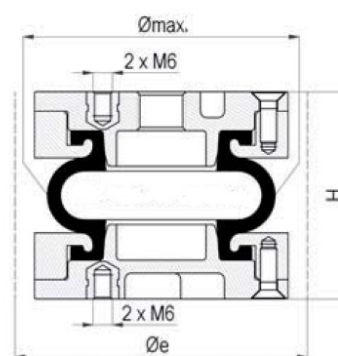
Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 20 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber compounds, contact our technical sales department.

Conditions of use

Maximum pressure	8 bar
Burst pressure	50 bar
Maximum angular capability	
Maximum misalignment	

Precaution in use

Air springs must not be pressurised unless they are restricted by an outside frame or by a suitable load. Respect the minimum and maximum height specifications (the high position of your application must be lower than the air bellows maximum height and the low position of your application must be higher than the direct use of bump stops or external stops. Do not combine an angular motion and a misalignment. Avoid using below atmospheric pressure.



Specifications data

Static diameter	70 mm
Maximum diameter	80 mm
Minimum space envelope	95 mm
Static height	60 mm
Minimum height	50 mm
Recommended maximum height	65 mm
Maximum height	70 mm
Total stroke	20 mm
Effective area	29 cm ²
Stiffness at 4 bar	13.12 daN/mm
Natural frequency at 4 bar	5.30 Hz
Weight of the bellows	0.35 kg

References table

PB0214	2¾" x 1 aluminium
PB0214/B	2¾" x 1 chlorobutyl aluminium
PB0214/E	2¾" x 2 epichlore aluminium

For information only. For complete range, contact our technical sales department.

Temperature

Standard	-30°C (-40°C static)	+70°C (+90°C static)
Chlorobutyl	-25°C (-35°C static)	+90°C (+100°C static)
Epichlore	-20°C (-30°C static)	+115°C (+120°C static)

Distributor:

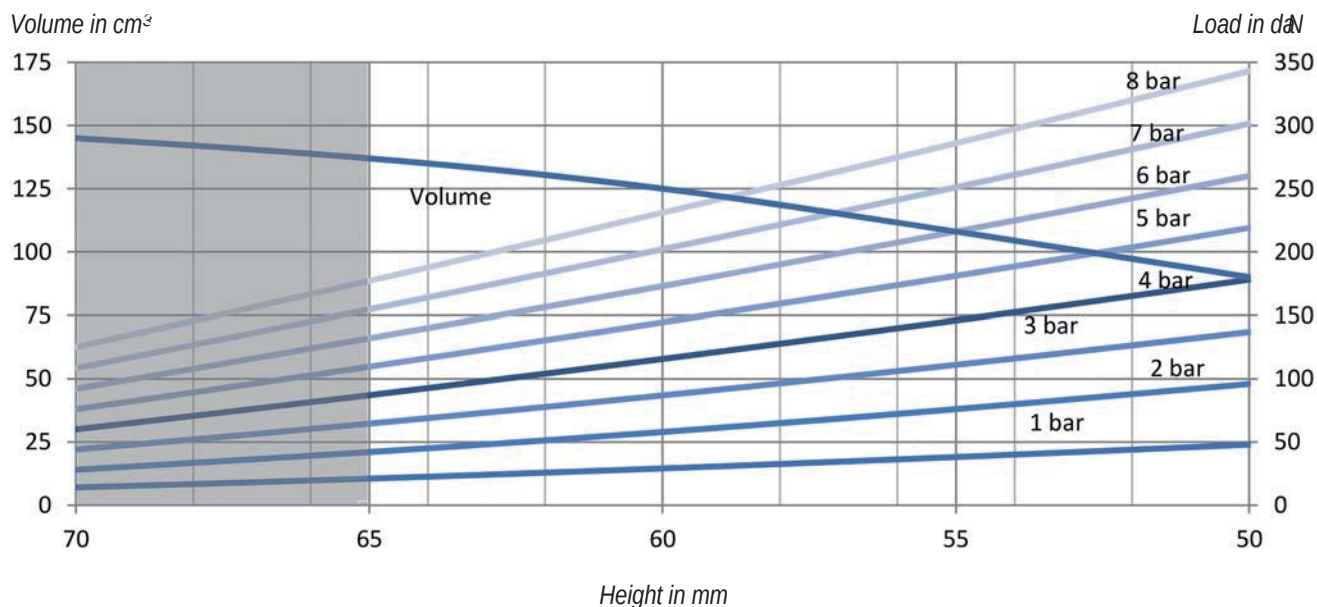
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PNEUSPRING

2¾" × 1

Specifications

Graphic



Characteristics in static condition (daN)

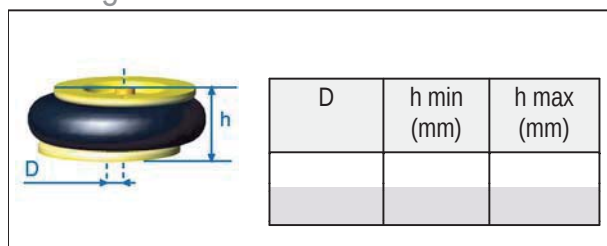
Height	2 bar	4 bar	6 bar	8 bar
50 mm	96	178	260	343
55 mm	76	146	216	286
60 mm	58	116	173	231
65 mm	42	87	132	177
70 mm	28	60	92	125

Dynamic characteristics at H = 62mm*

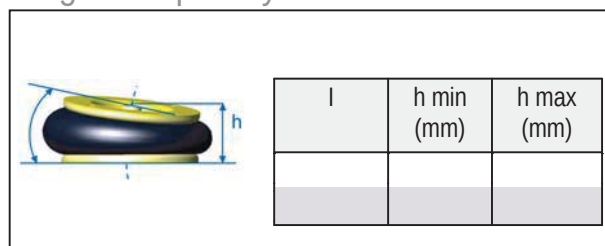
Charateristics	2 bar	4 bar	6 bar
Load (daN)	50	105	155
Volume (dm ³)	0.115	0.122	0.130
Stiffness (daN/cm)	56.9	96.1	133.7
Natural frequency (Hz)	5.22	4.79	4.60
Isolation rate at 10 Hz	62.5%	70.3%	73.1%

* Recommended height for better isolation

Misalignment



Angular capability



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PNEUSPRING

2³/₄" × 2

General information

Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 14 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber compounds, contact our technical sales department.

Conditions of use

Maximum pressure	8 bar
Burst pressure	24 bar
Maximum angular capability	
Maximum misalignment	10 mm

Precaution in use

Air springs must not be pressurised unless they are restricted by an outside frame or by a suitable load. Respect the minimum and maximum height specifications (the high position of your application must be lower than the air bellows maximum height and the low position of your application must be higher than the direct use of bump stops or external stops. Do not combine an angular motion and a misalignment. Avoid using below atmospheric pressure.

Specifications data

Static diameter	70 mm
Maximum diameter	80 mm
Minimum space envelope	95 mm
Static height	90 mm
Minimum height	65 mm
Recommended maximum height	105 mm
Maximum height	115 mm
Total stroke	50 mm
Effective area	25 cm ²
Stiffness at 4 bar	53 daN/mm
Natural frequency at 4 bar	3.80 Hz
Weight of the bellows	0.5 kg

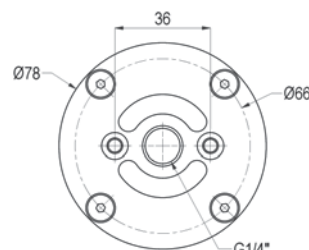
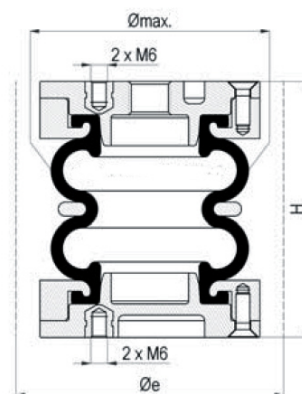
References table

PB0224	2 ³ / ₄ " x 2 aluminium
PB0224/B	2 ³ / ₄ " x 2 chlorobutyl aluminium
PB0224/E	2 ³ / ₄ " x 2 epichlore aluminium

For information only. For complete range, contact our technical sales department.

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Temperature

Standard	-40°C (-50°C static)	+70°C (+90°C static)
Chlorobutyl	-25°C (-35°C static)	+90°C (+100°C static)
Epichlore	-20°C (-30°C static)	+115°C (+120°C static)

PNEUSPRING

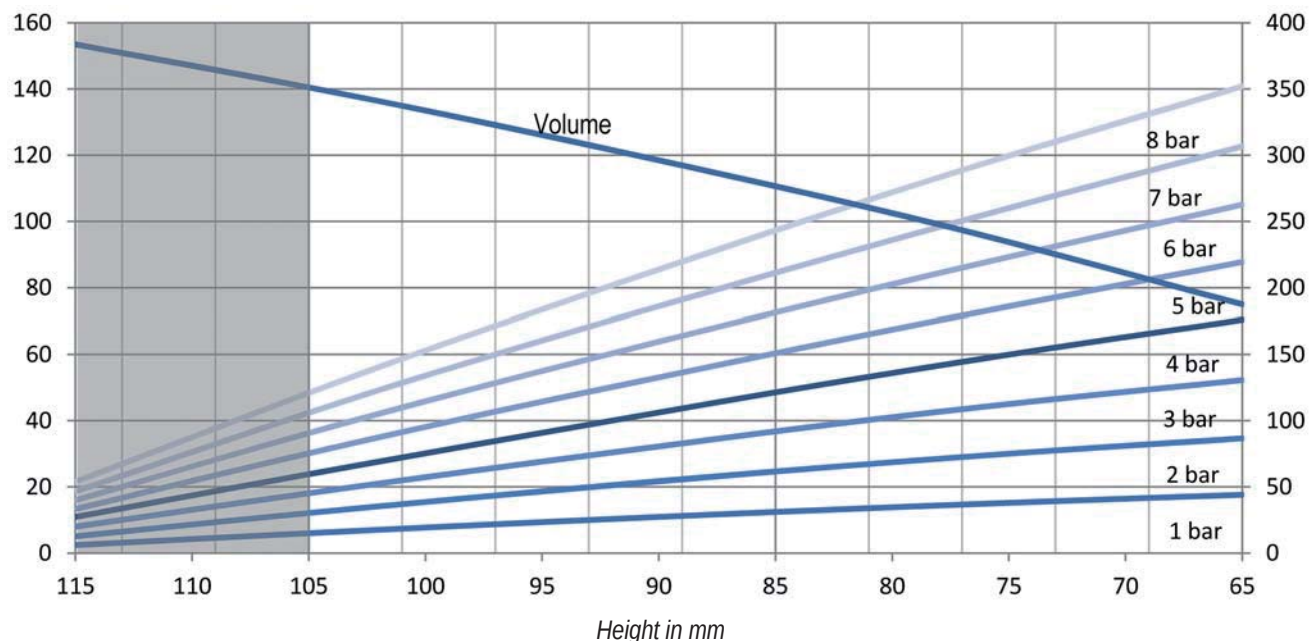
2¾" × 2

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

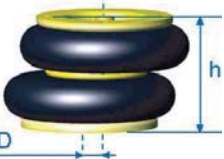
Height	2 bar	4 bar	6 bar	8 bar
65	87	176	263	352
80	69	136	203	272
100	39	75	115	153
115	13	27	40	54

Dynamic characteristics at H = 90mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	45	90	140
Volume (dm ³)	0.135	0.140	0.145
Stiffness (daN/cm)	31.7	52.5	72.5
Natural frequency (Hz)	4.14	3.76	3.60
Isolation rate at 10 Hz	79.3%	83.6%	85.1%

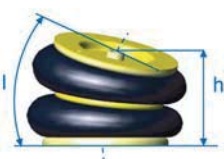
* Recommended height for better isolation

Misalignment



D	h min (mm)	h max (mm)
5 mm	80	100
10 mm	85	95

Angular capability



l	h min (mm)	h max (mm)
5°	75	100
10°	80	95

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PNEUSPRING

2¾" × 3

General information

Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 14 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber compounds, contact our technical sales department.

Conditions of use

Maximum pressure	8 bar
Burst pressure	24 bar
Maximum angular capability	
Maximum misalignment	10 mm

Precaution in use

Air springs must not be pressurised unless they are restricted by an outside frame or by a suitable load. Respect the minimum and maximum height specifications (the high position of your application must be lower than the air bellows maximum height and the low position of your application must be higher than the direct use of bump stops or external stops. Do not combine an angular motion and a misalignment. Avoid using below atmospheric pressure.

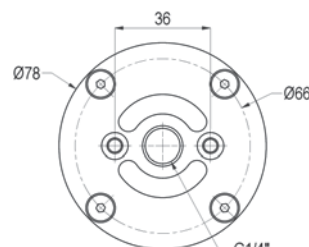
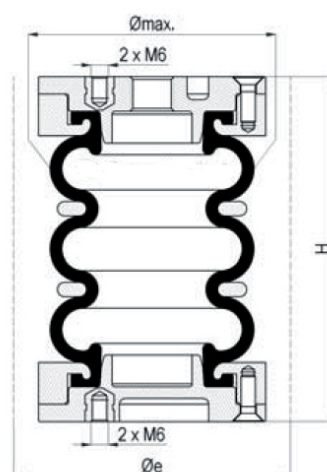
Specifications data

Static diameter	70 mm
Maximum diameter	80 mm
Minimum space envelope	95 mm
Static height	110 mm
Minimum height	80 mm
Recommended maximum height	130 mm
Maximum height	145 mm
Total stroke	65 mm
Effective area	24 cm ²
Stiffness at 4 bar	36 daN/mm
Natural frequency at 4 bar	3.30 Hz
Weight of the bellows	0.6 kg

References table

PB0234	2¾" x 3 aluminium
PB0234/B	2¾" x 3 chlorobutyl aluminium
PB0234/E	2¾" x 3 epichlore aluminium

For information only. For complete range, contact our technical sales department.



Temperature

Standard	-40°C (-50°C static)	+70°C (+90°C static)
Chlorobutyl	-25°C (-35°C static)	+90°C (+100°C static)
Epichlore	-20°C (-30°C static)	+115°C (+120°C static)

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PNEUSPRING

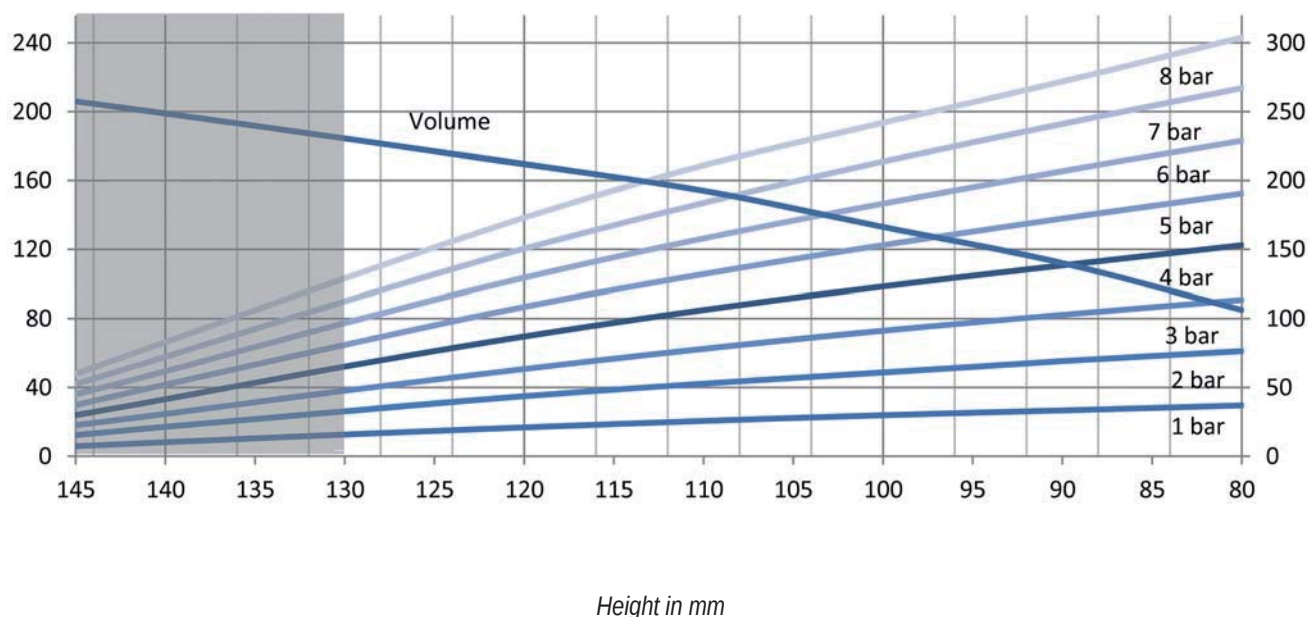
2¾" × 3

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

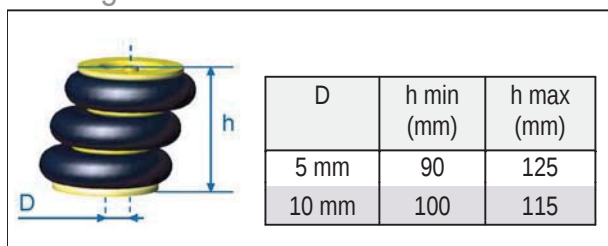
Height	2 bar	4 bar	6 bar	8 bar
80	76	153	229	304
90	69	138	207	272
100	61	123	183	242
110	53	106	158	211
120	44	87	129	173
130	33	65	97	129
140	21	42	62	83
145	15	30	45	60

Dynamic characteristics at H = 120mm*

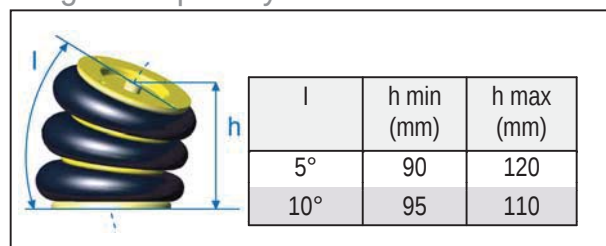
Charateristics	2 bar	4 bar	6 bar
Load (daN)	40	85	130
Volume (dm ³)	0.197	0.199	0.202
Stiffness (daN/cm)	20.6	35.8	50.7
Natural frequency (Hz)	3.50	3.22	3.12
Isolation rate at 10 Hz	86.1%	88.4%	89.2%

* Recommended height for better isolation

Misalignment



Angular capability



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PNEUSPRING

4½" × 1

General information

Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 12 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber compounds, contact our technical sales department.

Conditions of use

Maximum pressure	8 bar
Burst pressure	24 bar
Maximum angular capability	
Maximum misalignment	10 mm

Precaution in use

Air springs must not be pressurised unless they are restricted by an outside frame or by a suitable load. Respect the minimum and maximum height specifications (the high position of your application must be lower than the air bellows maximum height and the low position of your application must be higher than the direct use of bump stops or external stops. Do not combine an angular motion and a misalignment. Avoid using below atmospheric pressure.

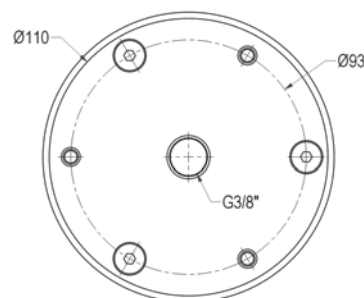
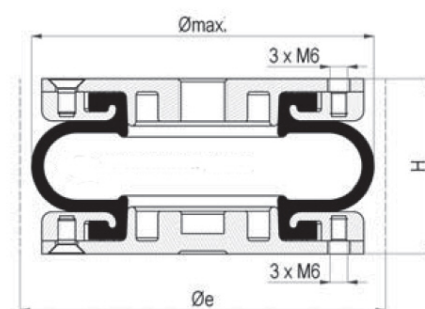
Specifications data

Static diameter	114 mm
Maximum diameter	125 mm
Minimum space envelope	140 mm
Static height	65 mm
Minimum height	45 mm
Recommended maximum height	80 mm
Maximum height	90 mm
Total stroke	45 mm
Effective area	72 cm ²
Stiffness at 4 bar	55 daN/mm
Natural frequency at 4 bar	5.74 Hz
Weight of the bellows	0.8 kg

References table

PB0413	4½" x 1 aluminium
PB0413/B	4½" x 1 chlorobutyl aluminium
PB0413/E	4½" x 1 epichlore aluminium

For information only. For complete range, contact our technical sales department.



Temperature

Standard	-40°C (-50°C static)	+70°C (+90°C static)
Chlorobutyl	-25°C (-35°C static)	+90°C (+100°C static)
Epichlore	-20°C (-30°C static)	+115°C (+120°C static)

Distributor:

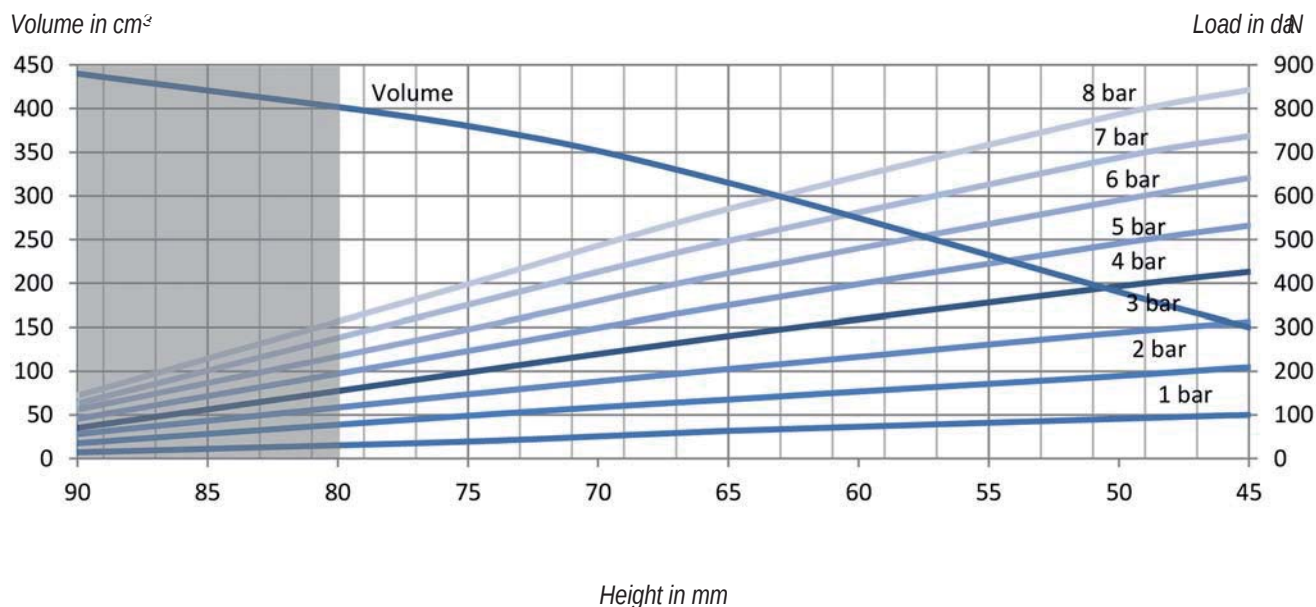
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PNEUSPRING

4½" × 1

Specifications

Graphic



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
45	209	426	641	843
50	189	393	590	787
65	135	280	423	570
75	98	197	295	398
90	35	70	112	144

Dynamic characteristics at H = 72mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	105	220	335
Volume (dm ³)	0.316	0.340	0.365
Stiffness (daN/cm)	74.9	131.8	184.9
Natural frequency (Hz)	4.21	3.87	3.71
Isolation rate at 10 Hz	78.4%	82.4%	84.0%

* Recommended height for better isolation

Misalignment

D	h min (mm)	h max (mm)
5 mm	60	80
10 mm	70	90

Angular capability

l	h min (mm)	h max (mm)
5°	60	75
10°	65	70

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PNEUSPRING

4½" × 2

General information

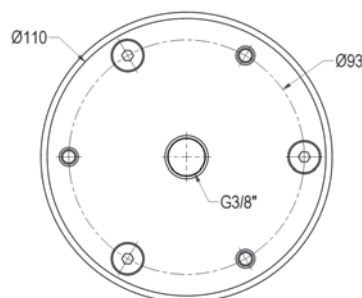
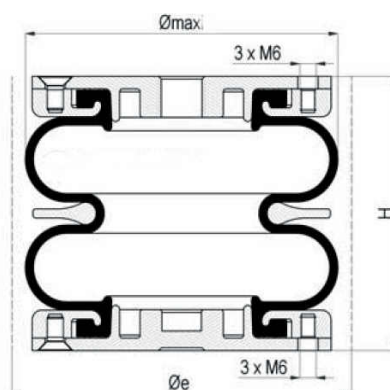
Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 13 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber compounds, contact our technical sales department.

Conditions of use

Maximum pressure	8 bar
Burst pressure	24 bar
Maximum angular capability	
Maximum misalignment	10 mm

Precaution in use

Air springs must not be pressurised unless they are restricted by an outside frame or by a suitable load. Respect the minimum and maximum height specifications (the high position of your application must be lower than the air bellows maximum height and the low position of your application must be higher than the direct use of bump stops or external stops. Do not combine an angular motion and a misalignment. Avoid using below atmospheric pressure.



Specifications data

Static diameter	114 mm
Maximum diameter	125 mm
Minimum space envelope	140 mm
Static height	100 mm
Minimum height	65 mm
Recommended maximum height	135 mm
Maximum height	145 mm
Total stroke	80 mm
Effective area	58 cm ²
Stiffness at 4 bar	12.50 daN/mm
Natural frequency at 4 bar	3 Hz
Weight of the bellows	1 kg

References table

PB0424	4½" x 2 aluminium
PB0424/B	4½" x 2 chlorobutyl aluminium
PB0424/E	4½" x 2 epichlore aluminium

For information only. For complete range, contact our technical sales department.

Temperature

Standard	-40°C (-50°C static)	+70°C (+90°C static)
Chlorobutyl	-25°C (-35°C static)	+90°C (+100°C static)
Epichlore	-20°C (-30°C static)	+115°C (+120°C static)

Distributor:

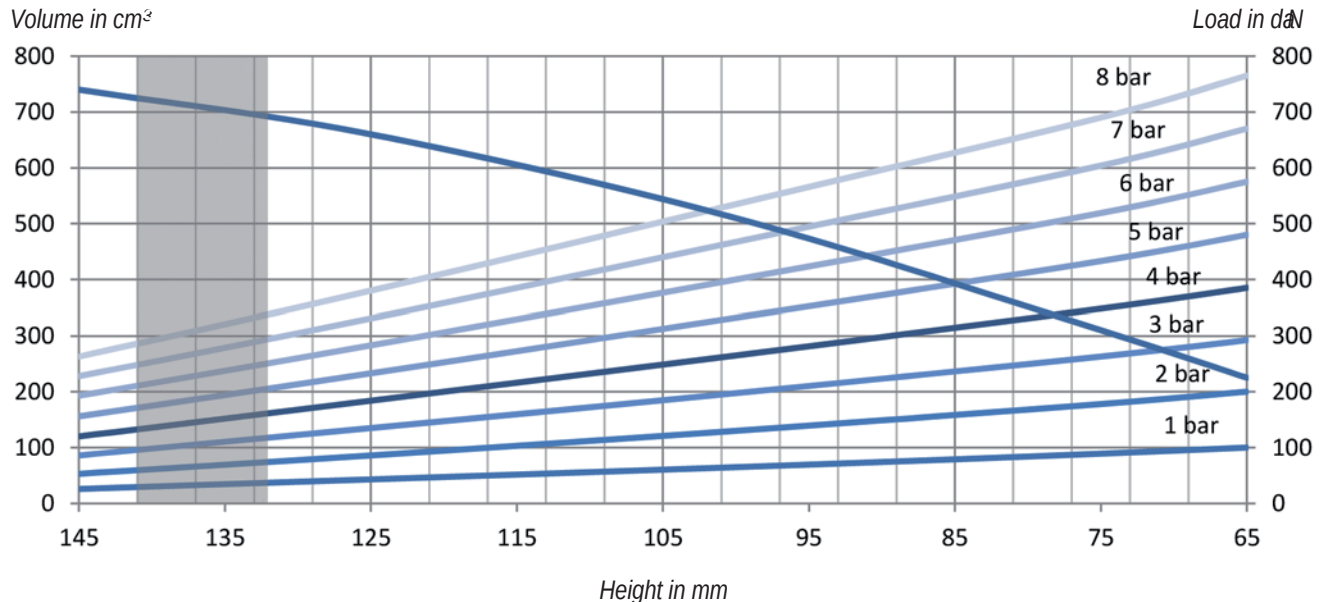
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PNEUSPRING

4½" × 2

Specifications

Graphic



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
65	200	385	575	765
75	178	348	519	690
100	130	265	400	535
125	86	184	283	380
145	53	120	193	263

Dynamic characteristics at H = 130mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	75	170	260
Volume (dm ³)	0.628	0.655	0.683
Stiffness (daN/cm)	26.5	49.5	71.4
Natural frequency (Hz)	2.94	2.71	2.62
Isolation rate at 10 Hz	90.6%	92.1%	92.6%

* Recommended height for better isolation

Misalignment

D	h min (mm)	h max (mm)
5 mm	75	145
10 mm	85	135

Angular capability

l	h min (mm)	h max (mm)
5°	80	125
10°	105	145

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PNEUSPRING

4½" × 3

General information

Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 14 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber compounds, contact our technical sales department.

Conditions of use

Maximum pressure	8 bar
Burst pressure	24 bar
Maximum angular capability	
Maximum misalignment	10 mm

Precaution in use

Air springs must not be pressurised unless they are restricted by an outside frame or by a suitable load. Respect the minimum and maximum height specifications (the high position of your application must be lower than the air bellows maximum height and the low position of your application must be higher than the direct use of bump stops or external stops. Do not combine an angular motion and a misalignment. Avoid using below atmospheric pressure.

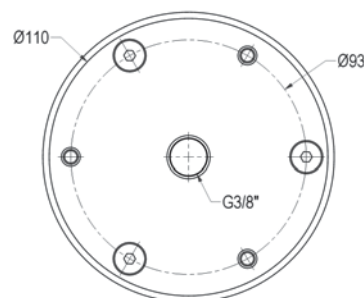
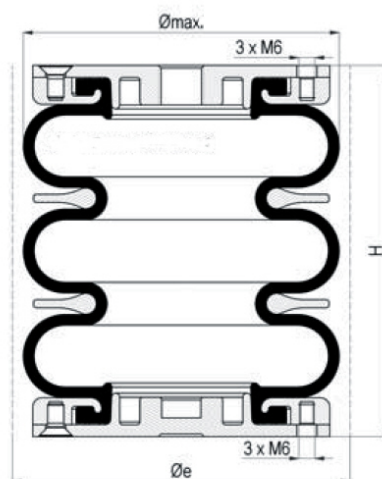
Specifications data

Static diameter	114 mm
Maximum diameter	125 mm
Minimum space envelope	140 mm
Static height	145 mm
Minimum height	100 mm
Recommended maximum height	180 mm
Maximum height	200 mm
Total stroke	100 mm
Effective area	60 cm ²
Stiffness at 4 bar	8 daN/mm
Natural frequency at 4 bar	2.5 Hz
Weight of the bellows	1.2 kg

References table

PB0434	4½" x 3 aluminium
PB0434/B	4½" x 3 chlorobutyl aluminium
PB0434/E	4½" x 3 epichlore aluminium

For information only. For complete range, contact our technical sales department.



Temperature

Standard	-40°C (-50°C static)	+70°C (+90°C static)
Chlorobutyl	-25°C (-35°C static)	+90°C (+100°C static)
Epichlore	-20°C (-30°C static)	+115°C (+120°C static)

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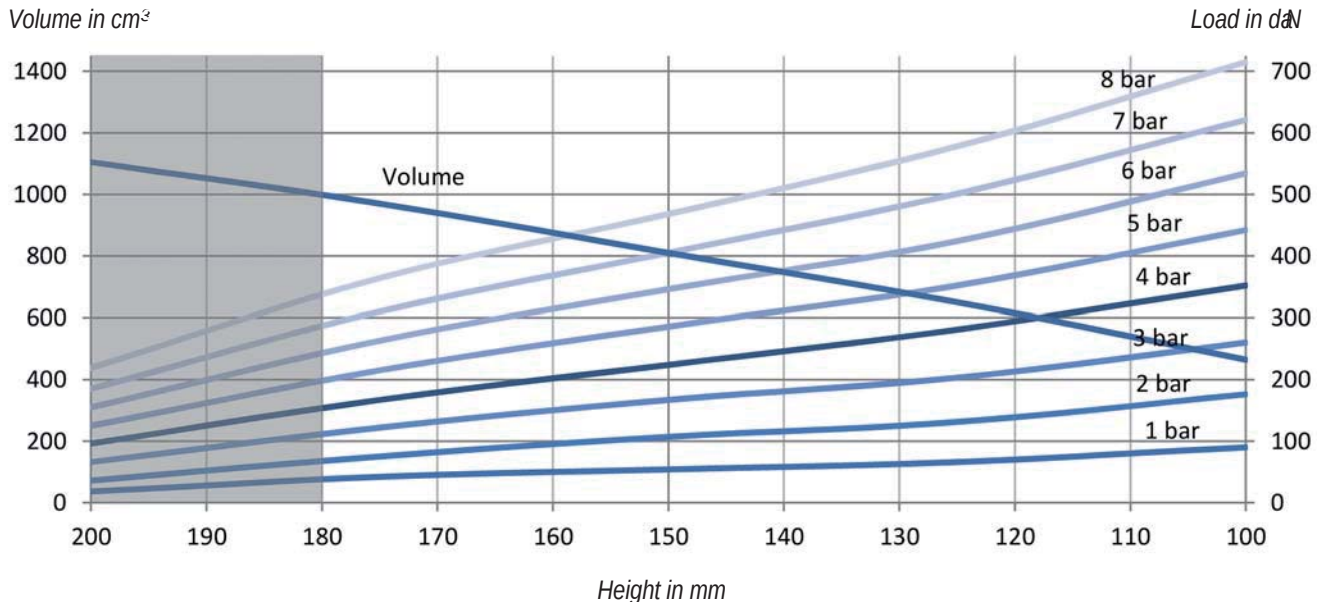
PNEUSPRING

4½" × 3

Specifications

Graphic

Volume in cm³



Characteristics in static condition (daN)

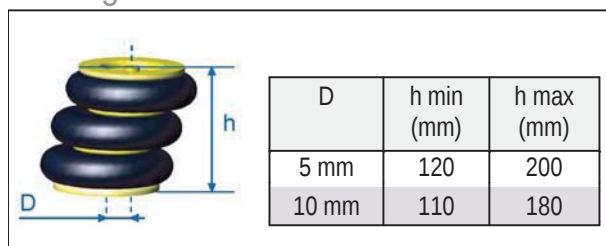
Height	2 bar	4 bar	6 bar	8 bar
100	176	352	534	715
125	131	281	424	578
150	107	224	346	468
175	75	167	263	364
200	36	96	155	219

Dynamic characteristics at H = 195mm*

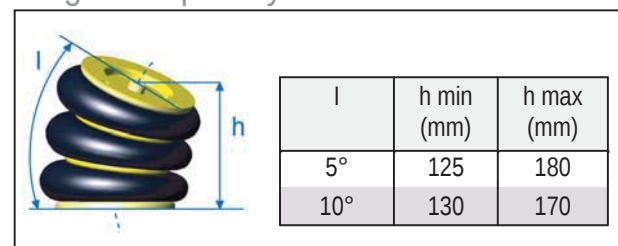
Charateristics	2 bar	4 bar	6 bar
Load (daN)	65	150	240
Volume (dm ³)	0.94	1.01	1.08
Stiffness (daN/cm)	13.1	25.5	36.8
Natural frequency (Hz)	2.20	2.04	1.96
Isolation rate at 10 Hz	94.9%	95.7%	96.0%

* Recommended height for better isolation

Misalignment



Angular capability



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PNEUSPRING

6" x 1 Aluminium

General information

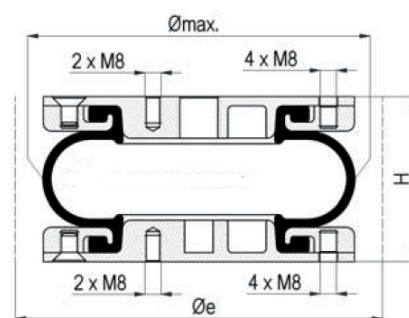
Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 14 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber compounds, contact our technical sales department.

Conditions of use

Maximum pressure	8 bar
Burst pressure	24 bar
Maximum angular capability	
Maximum misalignment	10 mm

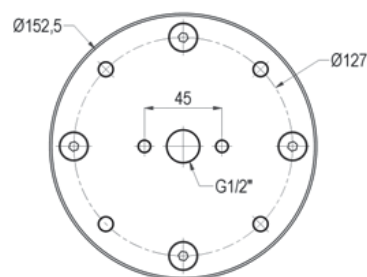
Precaution in use

Air springs must not be pressurised unless they are restricted by an outside frame or by a suitable load. Respect the minimum and maximum height specifications (the high position of your application must be lower than the air bellows maximum height and the low position of your application must be higher than the direct use of bump stops or external stops. Do not combine an angular motion and a misalignment. Avoid using below atmospheric pressure.



Specifications data

Static diameter	152 mm
Maximum diameter	175 mm
Minimum space envelope	190 mm
Static height	80 mm
Minimum height	55 mm
Recommended maximum height	100 mm
Maximum height	110 mm
Total stroke	55 mm
Effective area	106 cm ²
Stiffness at 4 bar	76.00 daN/mm
Natural frequency at 4 bar	3.20 Hz
Weight of the bellows	2.0 kg



References table

PB06110	6" x 1 aluminium
PB06110/B	6" x 1 chlorobutyl aluminium
PB06110/E	6" x 1 epichlore aluminium

For information only. For complete range, contact our technical sales department.

Temperature

Standard	-40°C (-50°C static)	+70°C (+90°C static)
Chlorobutyl	-25°C (-35°C static)	+90°C (+100°C static)
Epichlore	-20°C (-30°C static)	+115°C (+120°C static)

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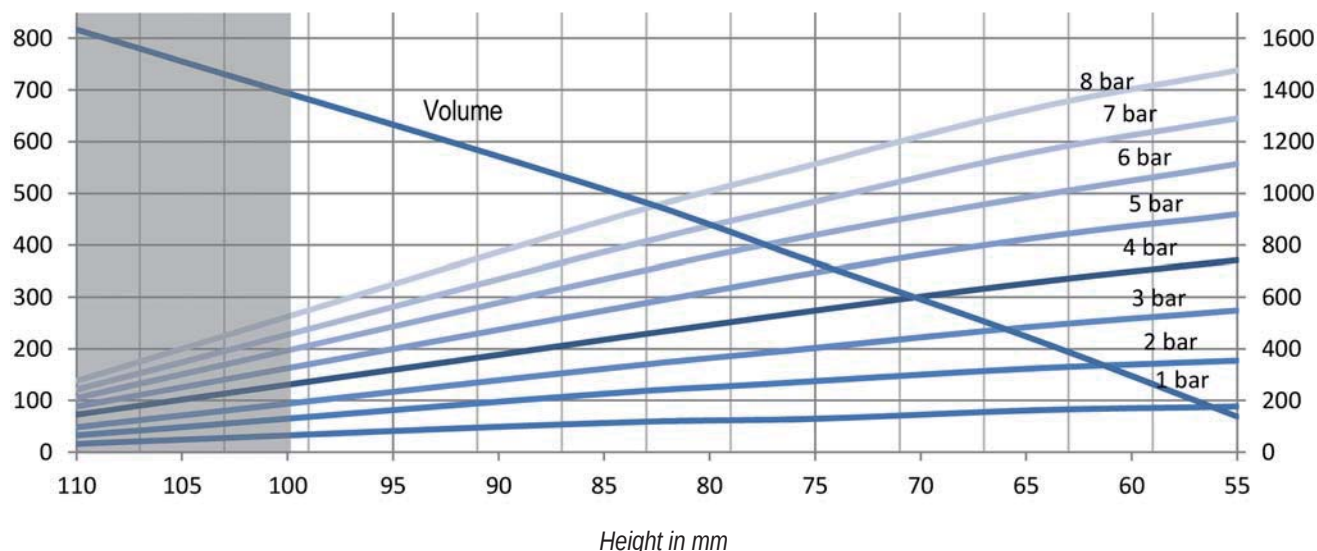
6" × 1 Aluminium

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
55	355	742	1113	1476
65	323	653	984	1322
75	274	548	839	1113
85	226	435	669	895
110	65	145	210	276

Dynamic characteristics at H = 90mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	185	395	610
Volume (dm ³)	0.73	0.75	0.78
Stiffness (daN/cm)	106.3	191.9	272.2
Natural frequency (Hz)	3.76	3.47	3.33
Isolation rate at 10 Hz	83.6%	86.3%	87.5%

* Recommended height for better isolation

Misalignment

D	h min (mm)	h max (mm)
5 mm	65	95
10 mm	75	85

Angular capability

I	h min (mm)	h max (mm)
5°	65	90
10°	70	85

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PNEUSPRING

6" x 2 Aluminium

General information

Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 17 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber compounds, contact our technical sales department.

Conditions of use

Maximum pressure	8 bar
Burst pressure	24 bar
Maximum angular capability	
Maximum misalignment	10 mm

Precaution in use

Air springs must not be pressurised unless they are restricted by an outside frame or by a suitable load. Respect the minimum and maximum height specifications (the high position of your application must be lower than the air bellows maximum height and the low position of your application must be higher than the direct use of bump stops or external stops. Do not combine an angular motion and a misalignment. Avoid using below atmospheric pressure.

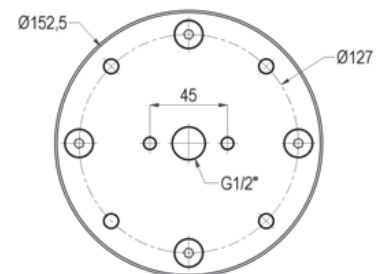
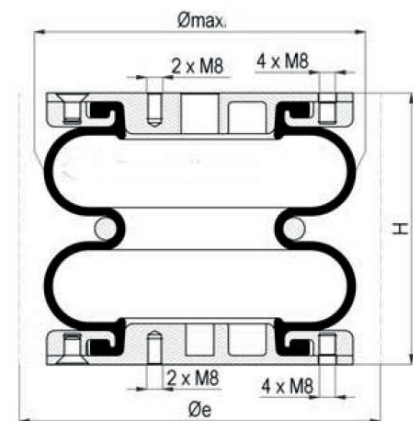
Specifications data

Static diameter	152 mm
Maximum diameter	175 mm
Minimum space envelope	190 mm
Static height	130 mm
Minimum height	75 mm
Recommended maximum height	175 mm
Maximum height	195 mm
Total stroke	120 mm
Effective area	125 cm ²
Stiffness at 4 bar	24.00 daN/mm
Natural frequency at 4 bar	2.80 Hz
Weight of the bellows	2.7 kg

References table

PB0629	6" x 2 aluminium
PB0629/B	6" x 2 chlorobutyl aluminium
PB0629/E	6" x 2 epichlore aluminium

For information only. For complete range, contact our technical sales department.



Temperature

Standard	-40°C (-50°C static)	+70°C (+90°C static)
Chlorobutyl	-25°C (-35°C static)	+90°C (+100°C static)
Epichlore	-20°C (-30°C static)	+115°C (+120°C static)

Distributor:

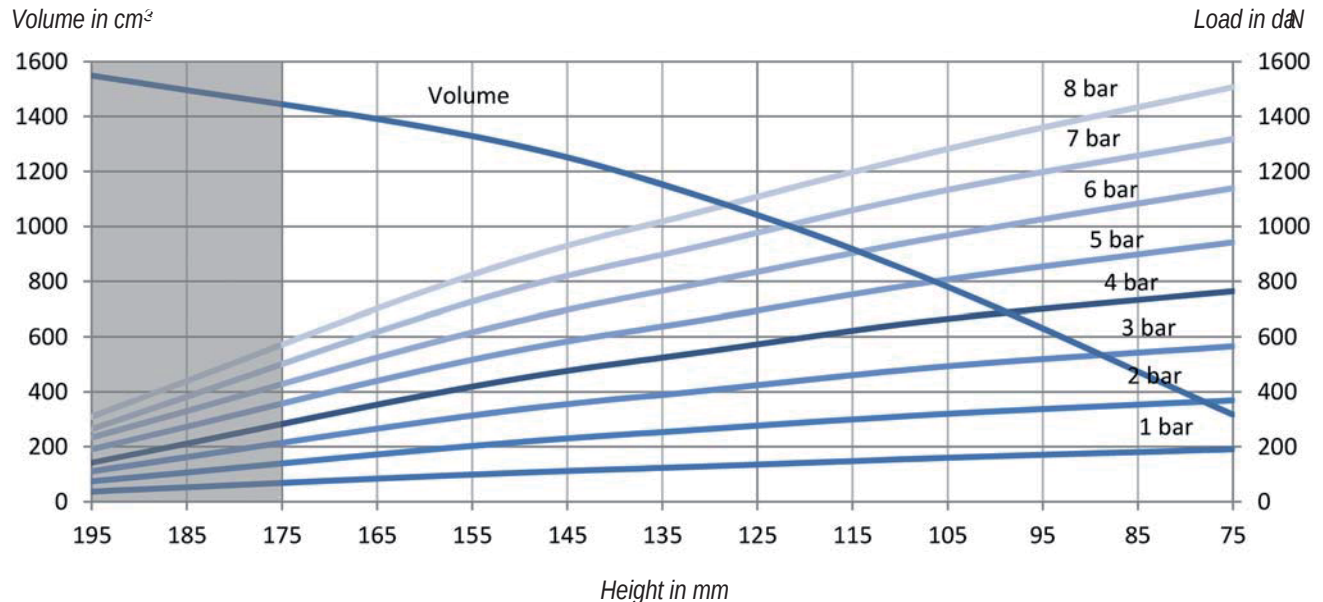
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PNEUSPRING

6" × 2 Aluminium

Specifications

Graphic



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
75	369	764	1139	1507
105	320	665	967	1282
130	265	542	800	1062
155	203	419	616	824
195	74	142	234	310

Dynamic characteristics at H = 160mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	175	365	560
Volume (dm ³)	1.55	1.61	1.66
Stiffness (daN/cm)	44.1	79.4	114.0
Natural frequency (Hz)	2.51	2.33	2.25
Isolation rate at 10 Hz	93.3%	94.3%	94.7%

* Recommended height for better isolation

Misalignment

D	h min (mm)	h max (mm)
5 mm	100	175
10 mm	110	165

Angular capability

l	h min (mm)	h max (mm)
10°	95	160
15°	100	155

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PNEUSPRING

6" × 3 Aluminium

General information

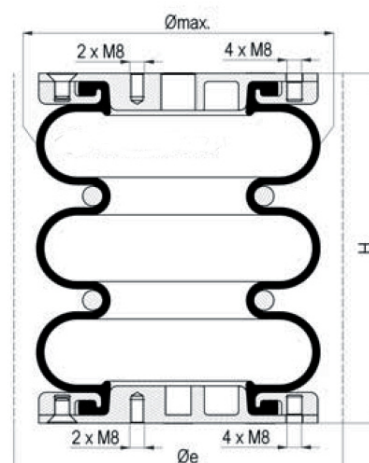
Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 14 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber compounds, contact our technical sales department.

Conditions of use

Maximum pressure	8 bar
Burst pressure	24 bar
Maximum angular capability	
Maximum misalignment	10 mm

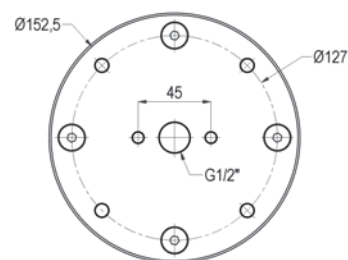
Precaution in use

Air springs must not be pressurised unless they are restricted by an outside frame or by a suitable load. Respect the minimum and maximum height specifications (the high position of your application must be lower than the air bellows maximum height and the low position of your application must be higher than the direct use of bump stops or external stops. Do not combine an angular motion and a misalignment. Avoid using below atmospheric pressure.



Specifications data

Static diameter	152 mm
Maximum diameter	175 mm
Minimum space envelope	190 mm
Static height	190 mm
Minimum height	100 mm
Recommended maximum height	255 mm
Maximum height	280 mm
Total stroke	180 mm
Effective area	117 cm ²
Stiffness at 4 bar	11.70 daN/mm
Natural frequency at 4 bar	2.04 Hz
Weight of the bellows	3.0 kg



References table

PB0639	6" x 3 aluminium
PB0639/B	6" x 3 chlorobutyl aluminium
PB0639/E	6" x 3 epichlore aluminium

For information only. For complete range, contact our technical sales department.

Temperature

Standard	-40°C (-50°C static)	+70°C (+90°C static)
Chlorobutyl	-25°C (-35°C static)	+90°C (+100°C static)
Epichlore	-20°C (-30°C static)	+115°C (+120°C static)

Distributor:

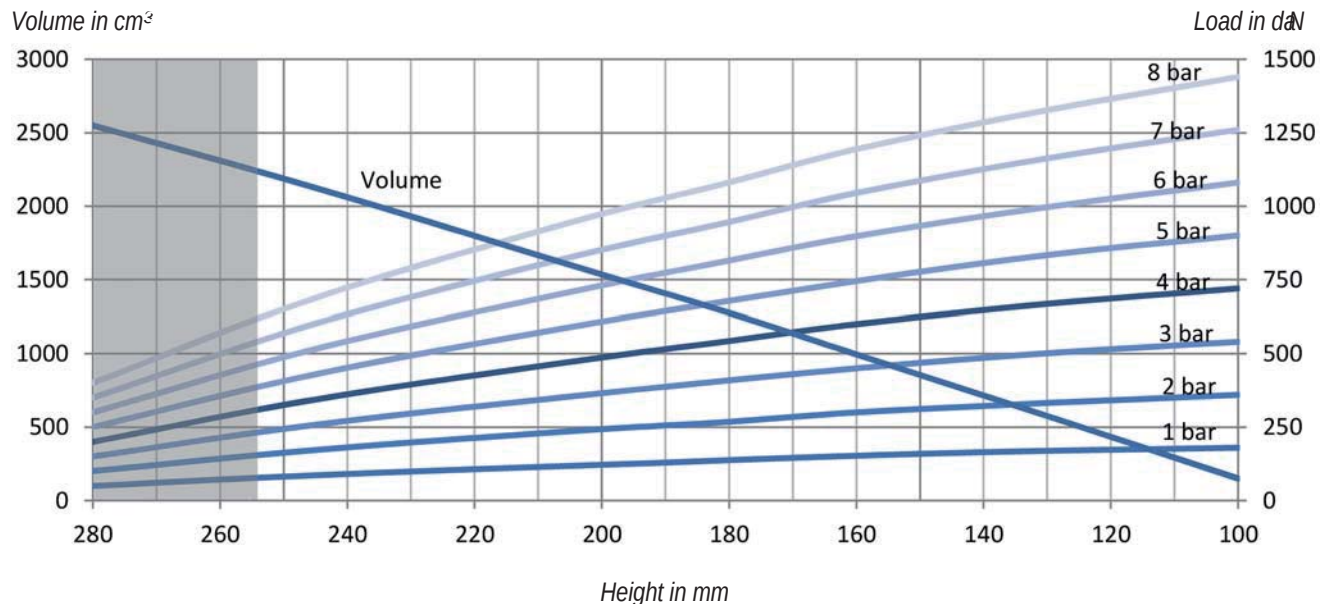
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PNEUSPRING

6" × 3 Aluminium

Specifications

Graphic



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
100	360	720	1080	1440
130	332	668	997	1327
160	300	600	898	1194
180	268	543	815	1081
205	236	472	708	944
245	172	344	516	688
280	100	200	300	400

Dynamic characteristics at H = 230mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	175	365	560
Volume (dm ³)	2.16	2.30	2.40
Stiffness (daN/cm)	29.9	54.0	77.3
Natural frequency (Hz)	2.07	1.91	1.85
Isolation rate at 10 Hz	95.5%	96.2%	96.4%

* Recommended height for better isolation

Misalignment

D	h min (mm)	h max (mm)
5 mm	115	250
10 mm	105	230

Angular capability

I	h min (mm)	h max (mm)
5°	195	255
10°	200	250

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