

**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

6" x 1 Steel

General information

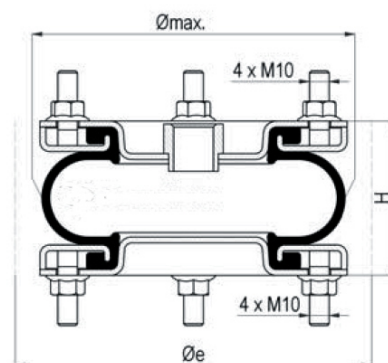
Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 14 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber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

Conditions of use

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

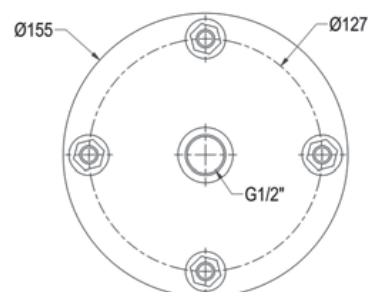
Precaution in use

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	50 mm
Recommended maximum height	95 mm
Maximum height	105 mm
Total stroke	55 mm
Effective area	106 cm ²
Stiffness at 4 bar	76.70 daN/mm
Natural frequency at 4 bar	3.20 Hz
Weight of the bellows	2.5 kg



References table

PB0617	6" x 1 steel
PB0617/B	6" x 1 chlorobutyl steel
PB0617/E	6" x 1 epichlore steel

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

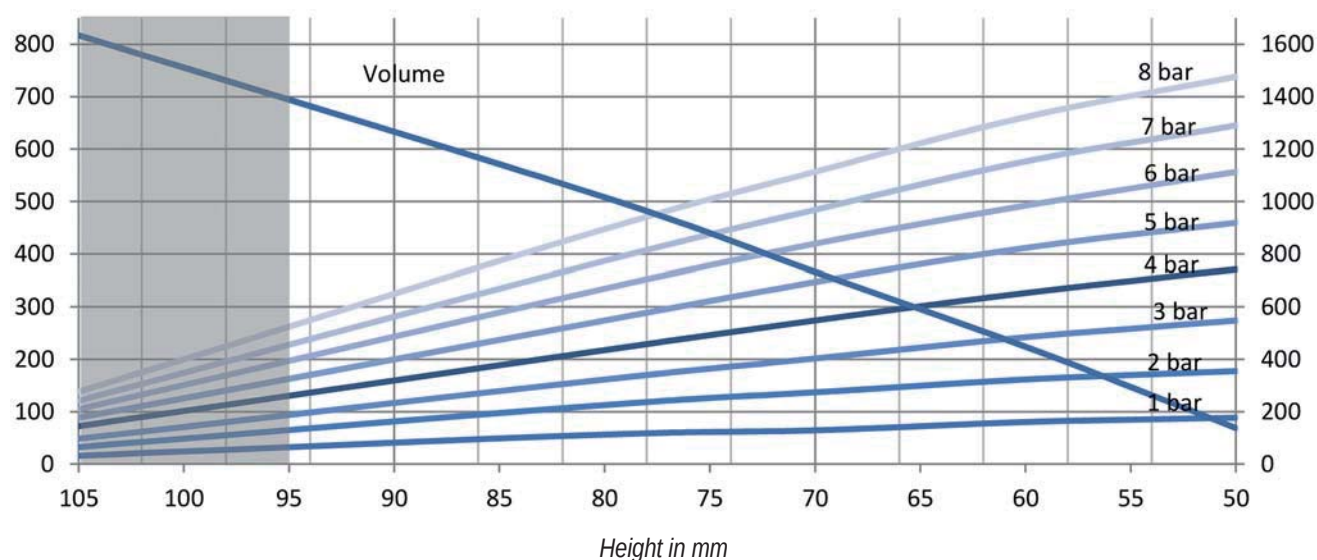
6" × 1 Steel

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

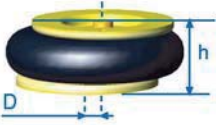
Height	2 bar	4 bar	6 bar	8 bar
50	355	742	1113	1476
60	323	653	984	1322
70	274	548	839	1113
80	226	435	669	895
105	65	145	210	276

Dynamic characteristics at H = 85mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	170	365	570
Volume (dm ³)	0.76	0.78	0.81
Stiffness (daN/cm)	94.3	174.0	249.0
Natural frequency (Hz)	3.71	3.43	3.30
Isolation rate at 10 Hz	84.1%	86.6%	87.8%

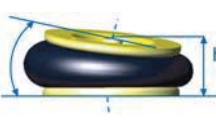
* Recommended height for better isolation

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 Steel

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	70 mm
Recommended maximum height	170 mm
Maximum height	190 mm
Total stroke	120 mm
Effective area	125 cm ²
Stiffness at 4 bar	24.9 daN/mm
Natural frequency at 4 bar	2.80 Hz
Weight of the bellows	2.7 kg

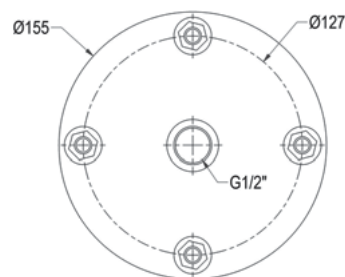
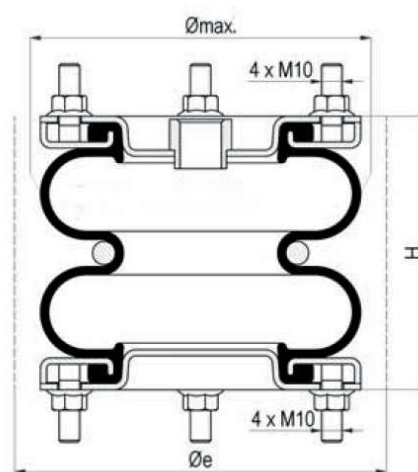
References table

PB0626	6" x 2 steel
PB0626/B	6" x 2 chlorobutyl steel
PB0626/E	6" x 2 epichlore steel

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)

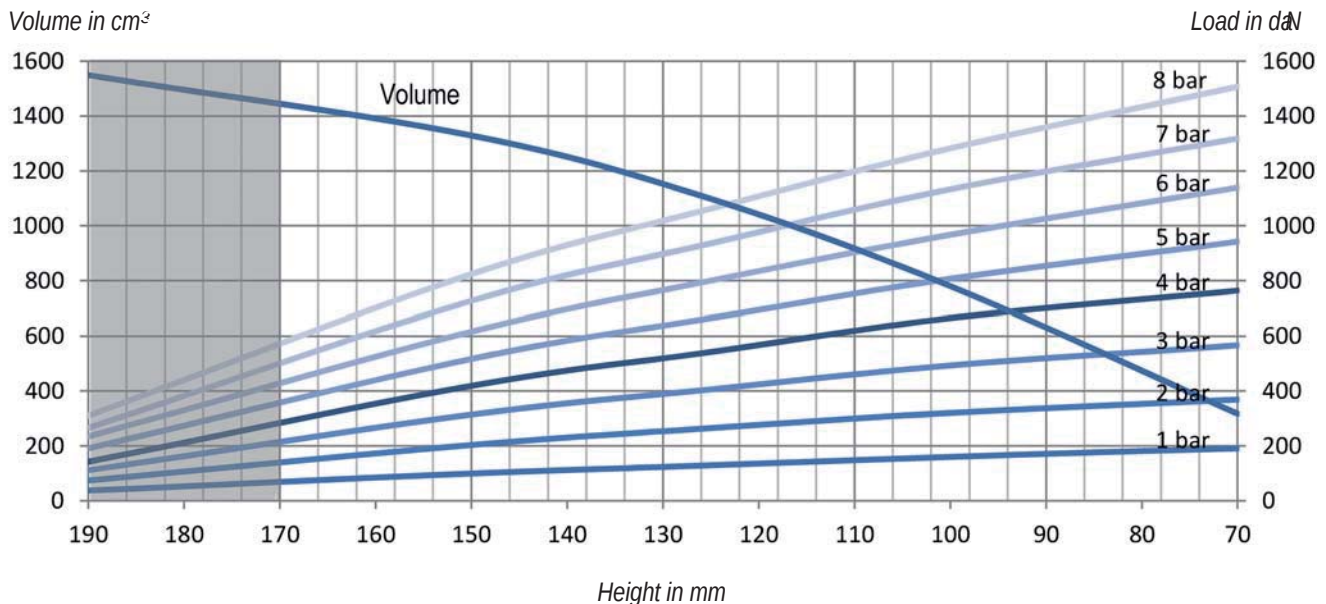
PNEUSPRING

6" × 2 Steel

Specifications

Graphic

Volume in cm³



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
70	369	764	1139	1507
100	320	665	967	1282
125	265	542	800	1062
150	203	419	616	824
190	74	142	234	310

Dynamic characteristics at H = 150mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	180	375	575
Volume (dm ³)	1.53	1.59	1.64
Stiffness (daN/cm)	45.5	81.7	116.9
Natural frequency (Hz)	2.51	2.33	2.25
Isolation rate at 10 Hz	93.3%	94.3%	94.7%

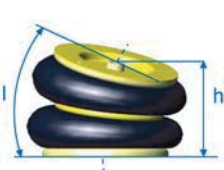
* Recommended height for better isolation

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" x 3 Steel

General information

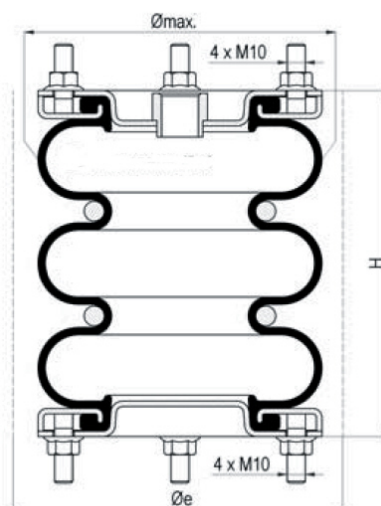
Bellows are entirely dismountable. Bellows are single acting air actuators and can be used as actuator or isolator. Indicative value of force to reach the minimum height: 19 daN. When tracking air springs, special care must be taken to ensure the air springs are guided and fixed. For other kinds of rubber compounds, contact our technical sales department.

Conditions of use

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

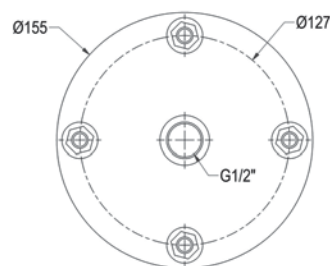
Precaution in use

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	95 mm
Recommended maximum height	250 mm
Maximum height	275 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

PB0636	6" x 3 steel
PB0636/B	6" x 3 chlorobutyl steel
PB0636/E	6" x 3 epichlore steel

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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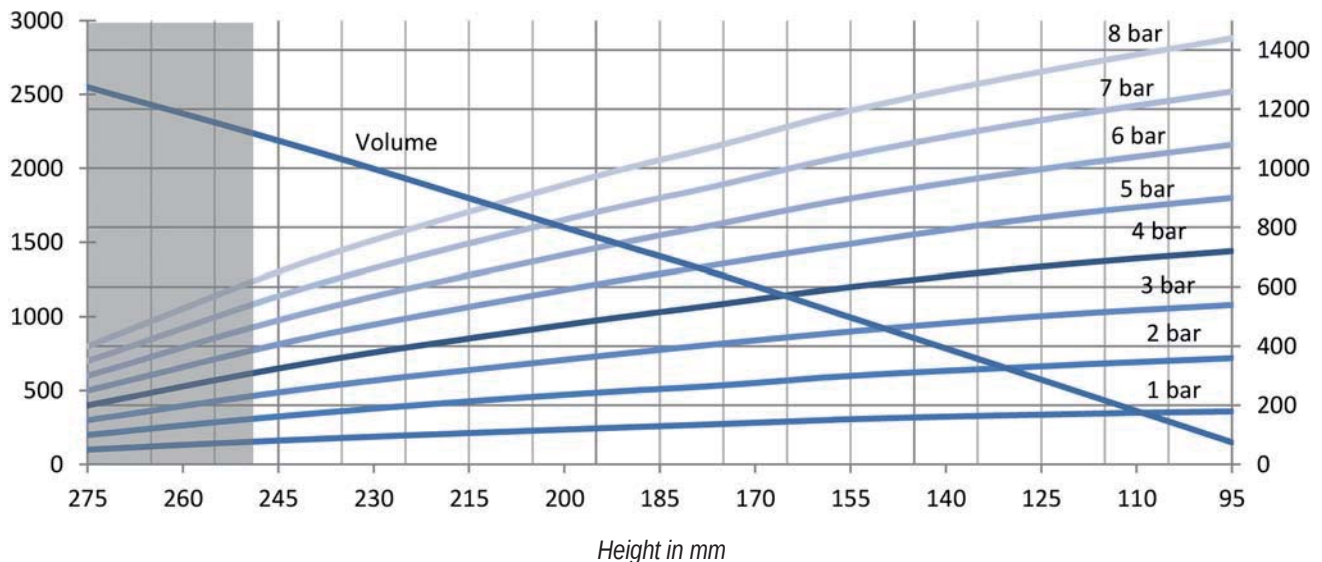
PNEUSPRING

6" × 3 Steel

Specifications

Graphic

Volume in cm³



Characteristics in static condition (daN)

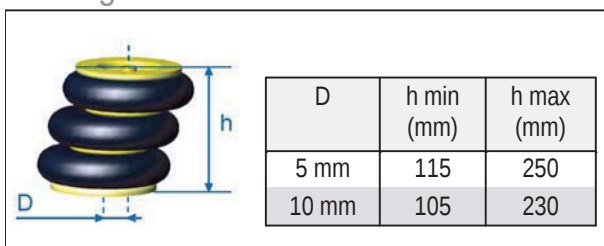
Height	2 bar	4 bar	6 bar	8 bar
95	360	720	1080	1440
125	332	668	997	1327
155	300	600	898	1195
175	268	543	815	1081
200	236	472	708	944
240	172	344	516	688
275	100	200	300	400

Dynamic characteristics at H = 225mm*

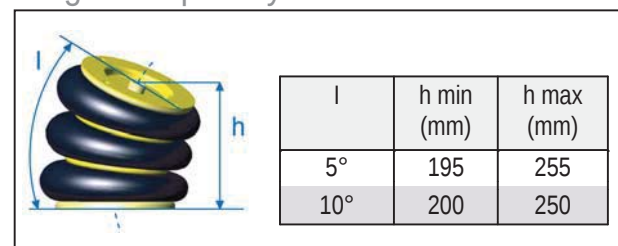
Charateristics	2 bar	4 bar	6 bar
Load (daN)	170	360	545
Volume (dm ³)	2.17	2.30	2.42
Stiffness (daN/cm)	29.1	52.7	75.5
Natural frequency (Hz)	2.07	1.91	1.85
Isolation rate at 10 Hz	95.5%	96.2%	96.5%

* Recommended height for better isolation

Misalignment



Angular capability



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PNEUSPRING

8" x 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 cares 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.

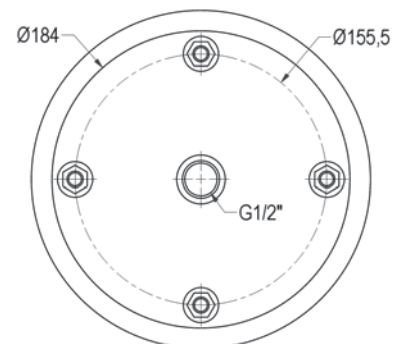
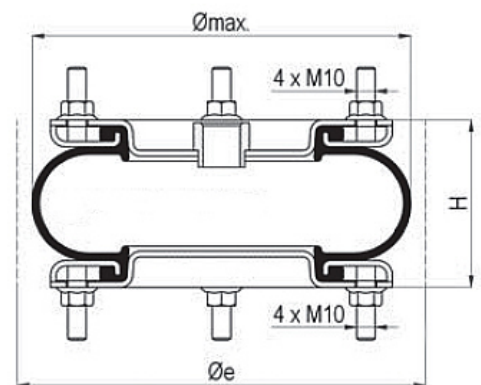
Specifications data

Static diameter	203 mm
Maximum diameter	230 mm
Minimum space envelope	245 mm
Static height	90 mm
Minimum height	50 mm
Recommended maximum height	115 mm
Maximum height	125 mm
Total stroke	75 mm
Effective area	208 cm ²
Stiffness at 4 bar	56.00 daN/mm
Natural frequency at 4 bar	3.00 Hz
Weight of the bellows	3.05 kg

References table

PB0817	8" x 1
PB0817/B	8" x 1 chlorobutyl
PB0817/E	8" x 1 epichlore

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:

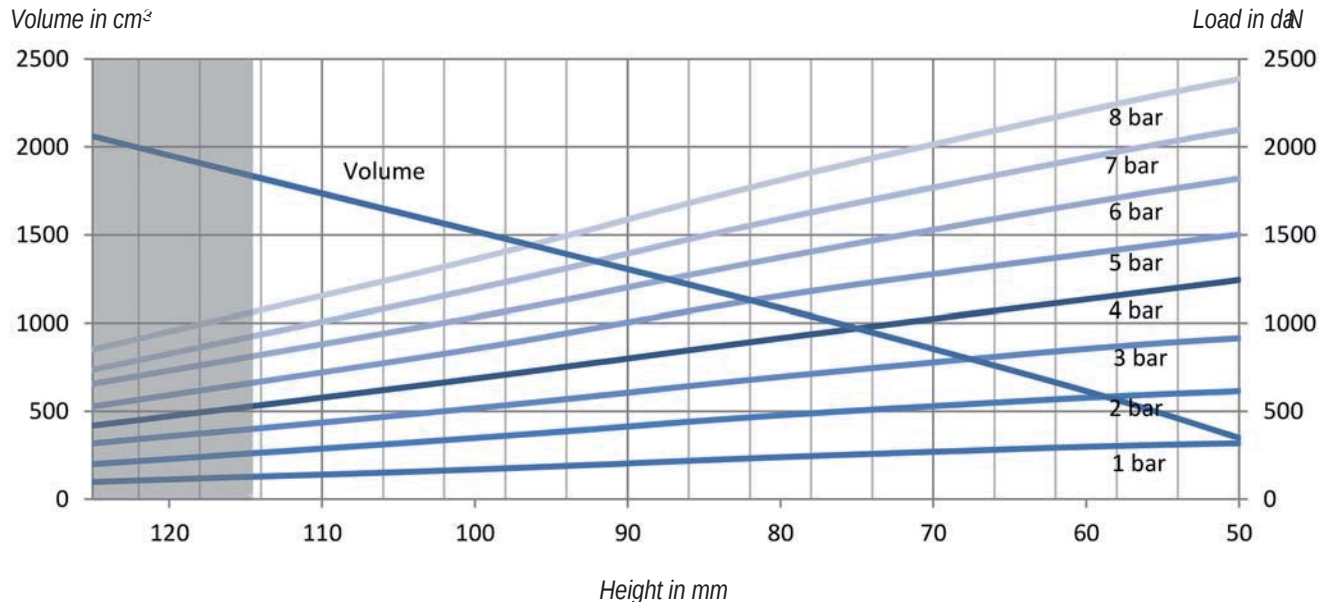
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PNEUSPRING

8" x 1

Specifications

Graphic



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
50	615	1243	1820	2386
60	577	1134	1681	2207
80	477	915	1372	1812
100	348	686	1034	1362
125	199	418	656	851

Dynamic characteristics at H = 100mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	355	725	1105
Volume (dm ³)	1.83	1.90	1.96
Stiffness (daN/cm)	134.0	237.9	342.1
Natural frequency (Hz)	3.05	2.86	2.77
Isolation rate at 10 Hz	89.7%	91.1%	91.7%

* Recommended height for better isolation

Misalignment

D	h min (mm)	h max (mm)
5 mm	70	120
10 mm	65	115

Angular capability

I	h min (mm)	h max (mm)
5°	60	105
10°	70	100

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PNEUSPRING

8" x 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	203 mm
Maximum diameter	230 mm
Minimum space envelope	245 mm
Static height	160 mm
Minimum height	70 mm
Recommended maximum height	220 mm
Maximum height	250 mm
Total stroke	180 mm
Effective area	220 cm ²
Stiffness at 4 bar	20.00 daN/mm
Natural frequency at 4 bar	2.20 Hz
Weight of the bellows	3.75 kg

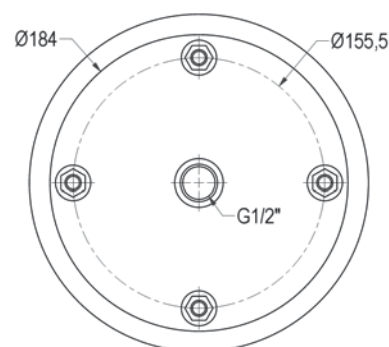
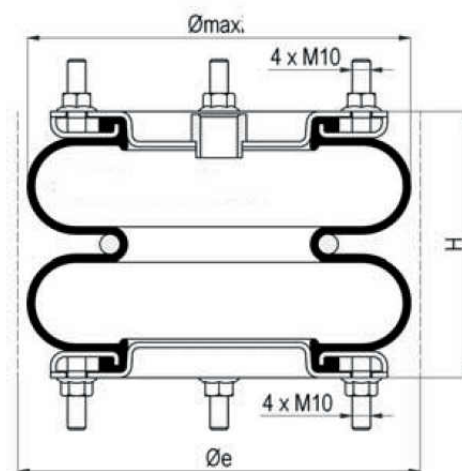
References table

PB0828	8" x 2
PB0828/B	8" x 2 chlorobutyl
PB0828/E	8" x 2 epichlore

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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)

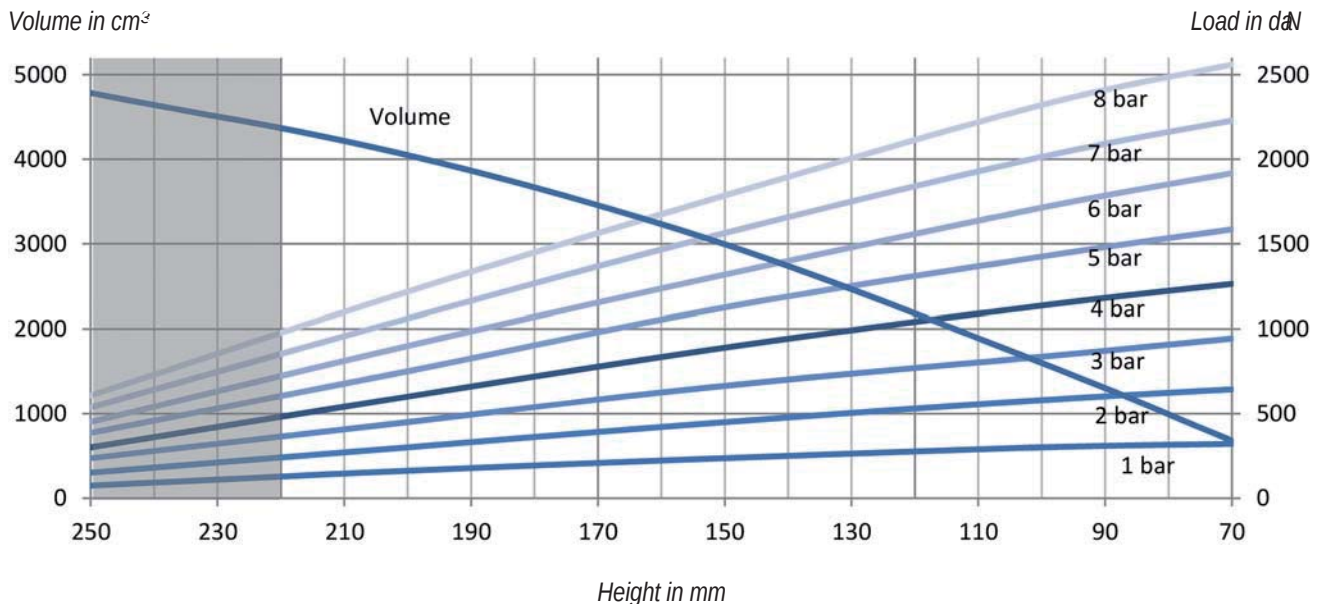
PNEUSPRING

8" × 2

Specifications

Graphic

Volume in cm³



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
70	643	1264	1918	2561
100	579	1136	1714	2321
150	450	889	1318	1786
200	300	600	900	1218
250	150	300	450	608

Dynamic characteristics at H = 200mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	265	545	840
Volume (dm ³)	3.42	3.54	3.66
Stiffness (daN/cm)	48.8	88.2	128.1
Natural frequency (Hz)	2.15	2.00	1.95
Isolation rate at 10 Hz	95.2%	95.8%	96.1%

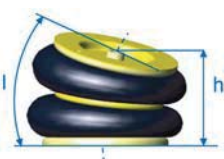
* Recommended height for better isolation

Misalignment



D	h min (mm)	h max (mm)
5 mm	85	240
10 mm	95	230

Angular capability



I	h min (mm)	h max (mm)
5°	90	210
10°	100	205

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PNEUSPRING

8" × 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: 15 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	204 mm
Maximum diameter	230 mm
Minimum space envelope	245 mm
Static height	205 mm
Minimum height	100 mm
Recommended maximum height	300 mm
Maximum height	325 mm
Total stroke	225 mm
Effective area	194 cm ²
Stiffness at 4 bar	11.75 daN/mm
Natural frequency at 4 bar	1.75 Hz
Weight of the bellows	4.3 kg

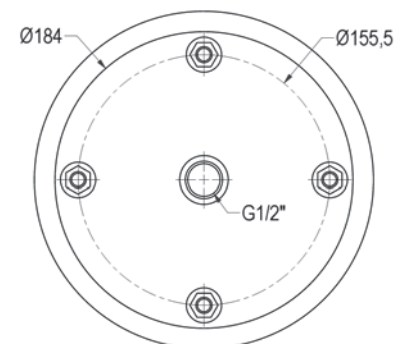
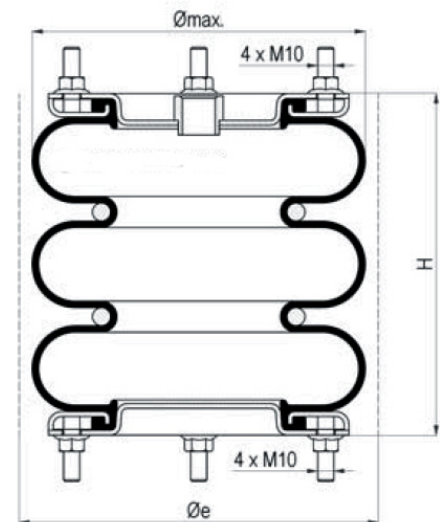
References table

PB0838	8" x 3
PB0838/B	8" x 3 chlorobutyl
PB0838/E	8" x 3 epichlore

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

Distributor:

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Tel: +44 (0)1584 878500 • Email: airsprings@interflex.co.uk



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)

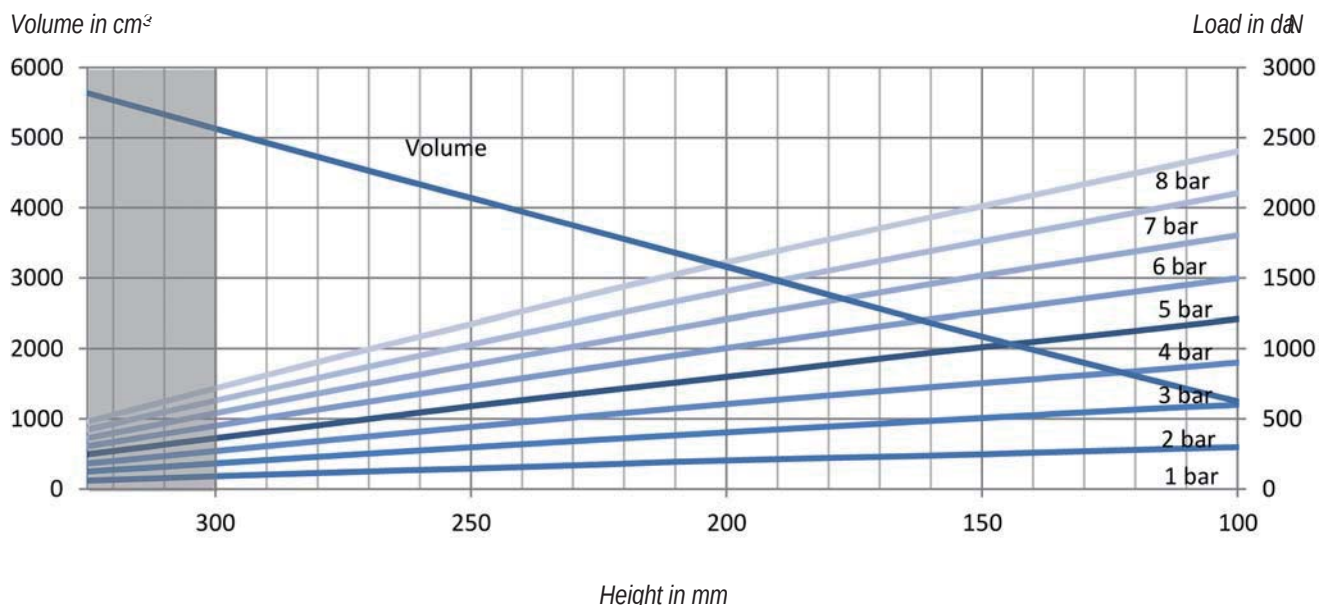
PNEUSPRING

8" × 3

Specifications

Graphic

Volume in cm³



Characteristics in static condition (daN)

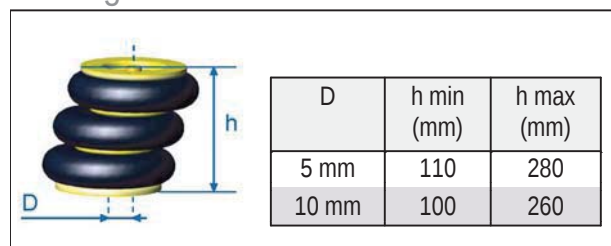
Height	2 bar	4 bar	6 bar	8 bar
100	600	1209	1804	2402
120	566	1126	1689	2246
160	485	970	1458	1932
200	403	799	1206	1611
240	319	633	949	1262
280	229	453	680	904
325	124	247	362	481

Dynamic characteristics at H = 280mm*

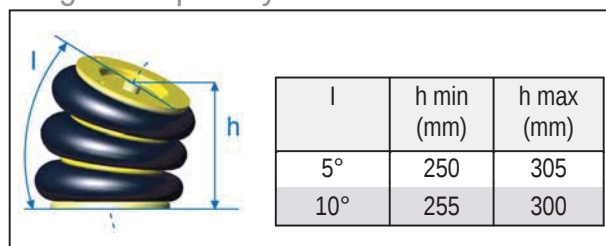
Charateristics	2 bar	4 bar	6 bar
Load (daN)	250	535	820
Volume (dm ³)	4.77	5.05	5.32
Stiffness (daN/cm)	33.4	60.2	85.1
Natural frequency (Hz)	1.82	1.67	1.60
Isolation rate at 10 Hz	96.6%	97.1%	97.4%

* Recommended height for better isolation

Misalignment



Angular capability



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PNEUSPRING

9 $\frac{1}{4}$ " x 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: 15 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	235 mm
Maximum diameter	255 mm
Minimum space envelope	270 mm
Static height	160 mm
Minimum height	75 mm
Recommended maximum height	240 mm
Maximum height	265 mm
Total stroke	190 mm
Effective area	275 cm ²
Stiffness at 4 bar	24 daN/mm
Natural frequency at 4 bar	1.9 Hz
Weight of the bellows	4.5 kg

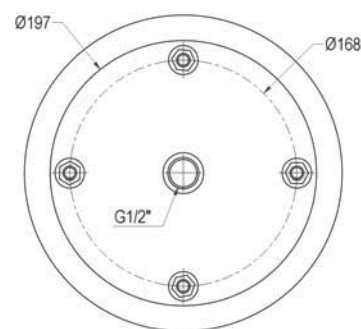
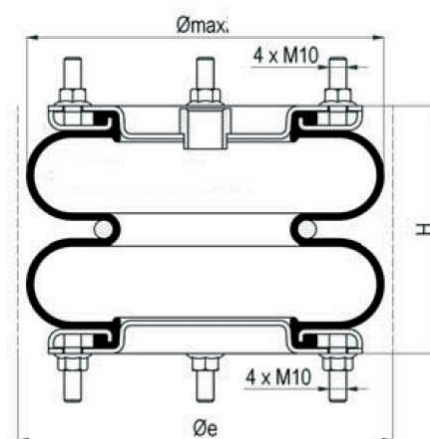
References table

PB0928	9 $\frac{1}{4}$ " x 2
PB0928/B	9 $\frac{1}{4}$ " x 2 chlorobutyl
PB0928/E	9 $\frac{1}{4}$ " x 2 epichlore

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

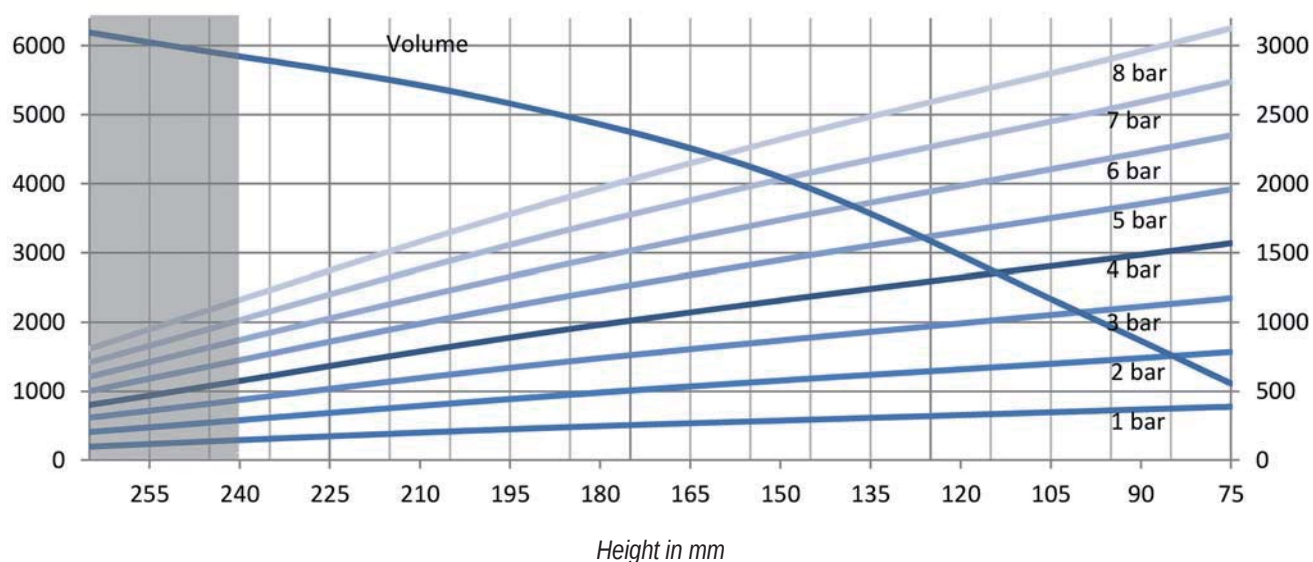
9 1/4" × 2

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
75	784	1 568	2 350	3126
100	712	1 430	2 144	2851
150	577	1 158	1 737	2321
200	427	855	1 280	1713
250	255	503	765	1019
265	203	400	604	807

Dynamic characteristics at H = 220mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	395	830	1260
Volume (dm ³)	5.86	6.03	6.20
Stiffness (daN/cm)	56.8	104.4	150.4
Natural frequency (Hz)	1.89	1.77	1.72
Isolation rate at 10 Hz	96.3%	96.8%	96.9%

* Recommended height for better isolation

Misalignment

D	h min (mm)	h max (mm)
5 mm	80	125
10 mm	70	135

Angular capability

I	h min (mm)	h max (mm)
10°	70	115
15°	80	105

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PNEUSPRING

10" x 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: 10 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	254 mm
Maximum diameter	280 mm
Minimum space envelope	300 mm
Static height	100 mm
Minimum height	50 mm
Recommended maximum height	135 mm
Maximum height	150 mm
Total stroke	100 mm
Effective area	295 cm ²
Stiffness at 4 bar	60.00 daN/mm
Natural frequency at 4 bar	2.60 Hz
Weight of the bellows	3.9 kg

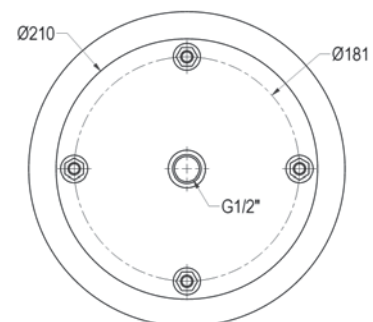
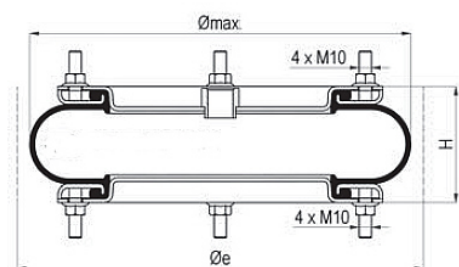
References table

PB1017	10" x 1
PB1017/B	10" x 1 chlorobutyl
PB1017/E	10" x 1 epichlore

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

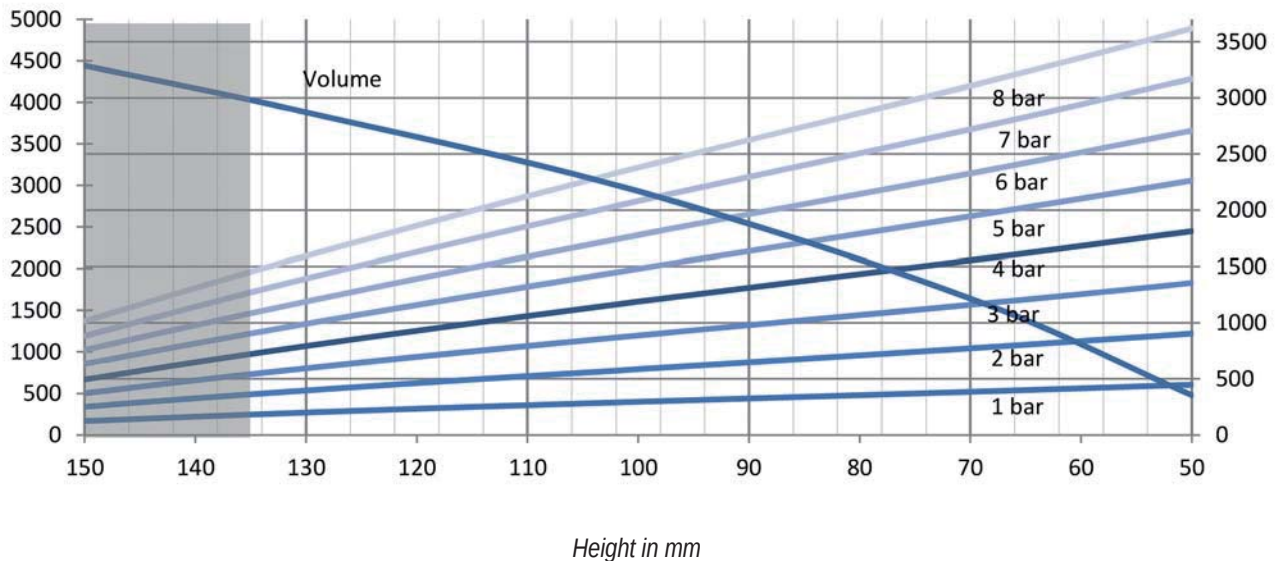
10" x 1

Specifications

Graphic

Volume in cm^3

Load in daN



Characteristics in static condition (daN)

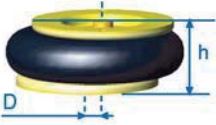
Height	2 bar	4 bar	6 bar	8 bar
50	904	1811	2707	3618
70	772	1554	2326	3106
100	586	1189	1778	2378
130	397	793	1189	1593
150	252	495	758	1015

Dynamic characteristics at H = 120mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	505	1045	1580
Volume (dm^3)	3.37	3.53	3.69
Stiffness (daN/cm)	150	271	385
Natural frequency (Hz)	2.71	2.54	2.46
Isolation rate at 10 Hz	92.1%	93.1%	93.5%

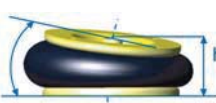
* Recommended height for better isolation

Misalignment



D	h min (mm)	h max (mm)
5 mm	65	145
10 mm	70	135

Angular capability



l	h min (mm)	h max (mm)
5°	70	115
10°	80	105

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PNEUSPRING

10" × 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: 10 daN. When tracking air springs, special cares 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	254 mm
Maximum diameter	280 mm
Minimum space envelope	300 mm
Static height	170 mm
Minimum height	70 mm
Recommended maximum height	245 mm
Maximum height	270 mm
Total stroke	200 mm
Effective area	340 cm ²
Stiffness at 4 bar	28.00 daN/mm
Natural frequency at 4 bar	1.95 Hz
Weight of the bellows	5.0 kg

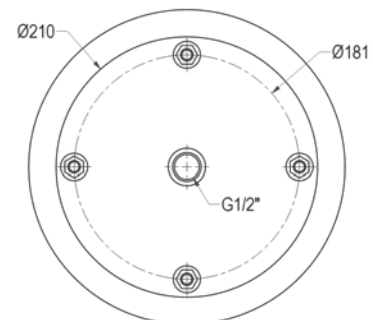
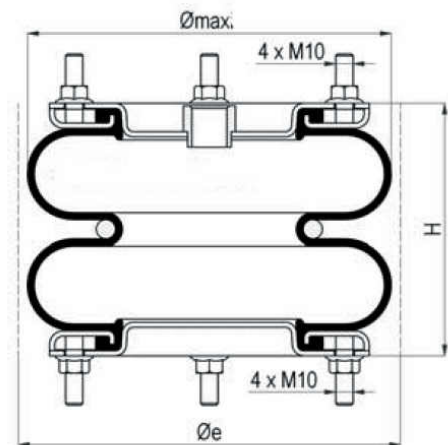
References table

PB1028	10" x 2
PB1028/B	10" x 2 chlorobutyl
PB1028/E	10" x 2 epichlore

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

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Temperature

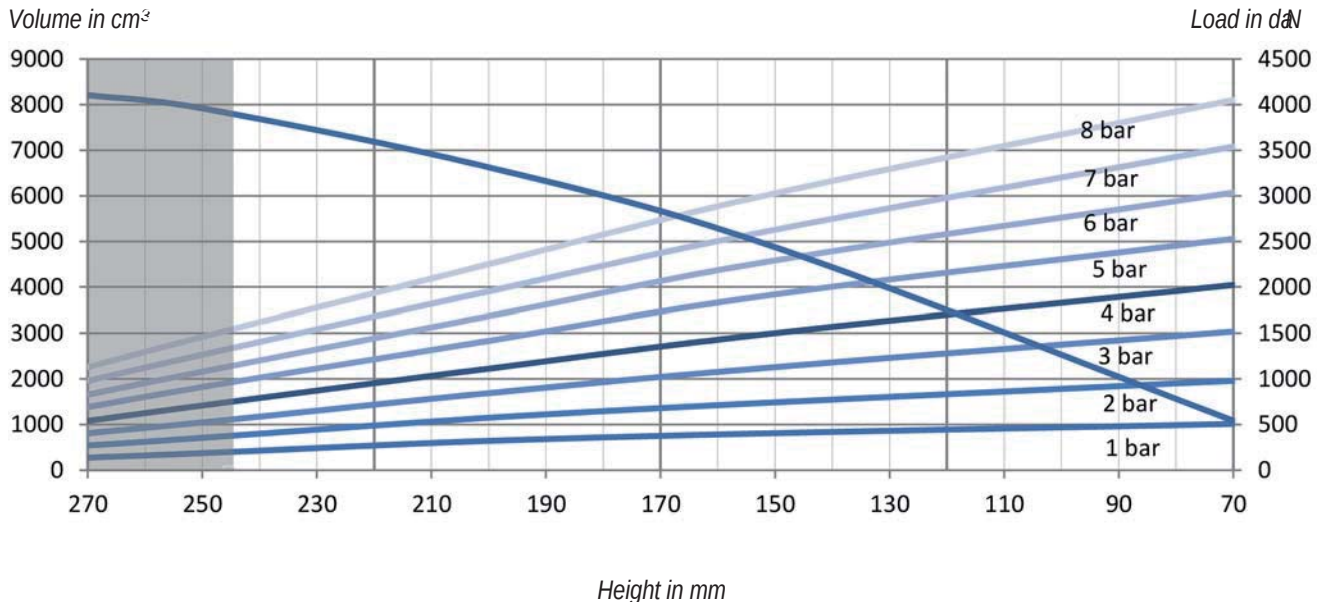
Standard	-40°C (-50°C static)	+70°C (+90°C static)
Chlorobutyl	-25°C (-35°C static)	+90°C (+100°C static)
Epichlore	-20°C (-30°C static)	+115°C (+120°C static)

PNEUSPRING

10" × 2

Specifications

Graphic



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
70	978	2022	3034	4050
150	742	1500	2292	3028
200	573	1112	1685	2251
250	354	708	1079	1459
270	270	539	826	1128

Dynamic characteristics at H = 220mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	470	960	1455
Volume (dm ³)	6.22	6.44	6.67
Stiffness (daN/cm)	70.2	125.4	178.8
Natural frequency (Hz)	1.93	1.80	1.75
Isolation rate at 10 Hz	96.1%	96.6%	96.8%

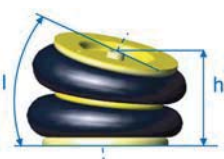
* Recommended height for better isolation

Misalignment



D	h min (mm)	h max (mm)
5 mm	95	270
10 mm	105	200

Angular capability



l	h min (mm)	h max (mm)
10°	95	260
15°	115	250

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PNEUSPRING

10" × 3 (4 ply)

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: 76 daN. When tracking air springs, special cares must be taken to ensure the air springs are guided and fixed. For other kind 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	254 mm
Maximum diameter	280 mm
Minimum space envelope	300 mm
Static height	250 mm
Minimum height	120 mm
Recommended maximum height	350 mm
Maximum height	400 mm
Total stroke	280 mm
Effective area	300 cm ²
Stiffness at 4 bar	20.00 daN/mm
Natural frequency at 4 bar	1.75 Hz
Weight of the bellows	5.8 kg

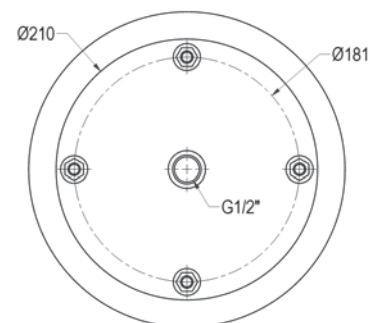
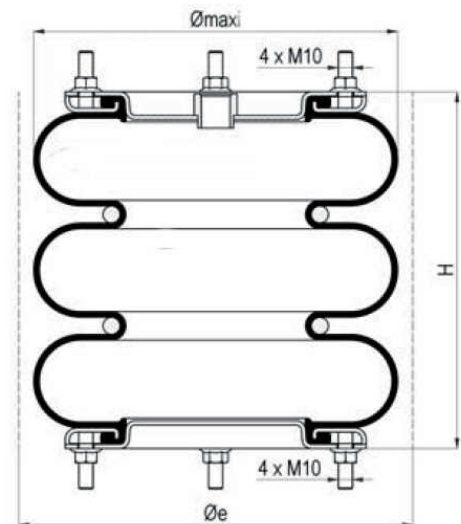
References table

PB1038	10" x 3 4 ply
PB1038/E	10" x 3 4 ply epichlore
PB1038/B	10" x 3 4 ply chlorobutyl

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

PNEUSPRING

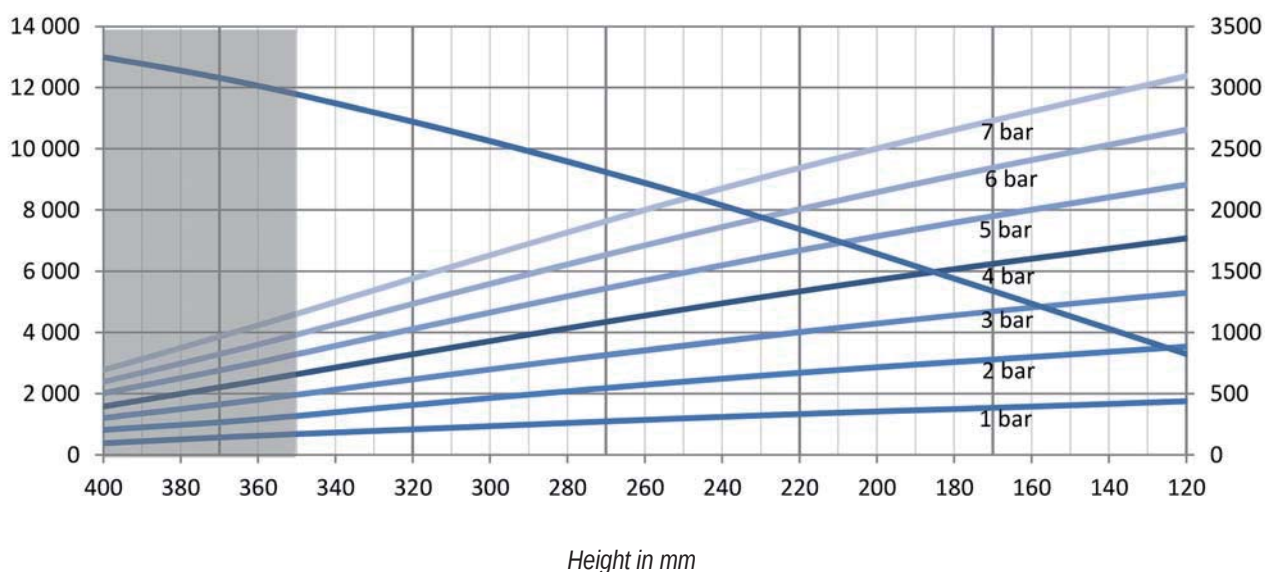
10" × 3 (4 ply)

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

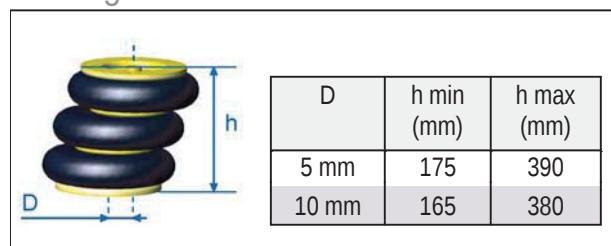
Height	2 bar	4 bar	6 bar	8 bar
120	885	1768	2656	3094
180	757	1516	2280	2656
240	623	1239	1862	2177
300	465	929	1397	1630
360	291	605	901	1058
400	204	394	597	693

Dynamic characteristics at H = 330mm*

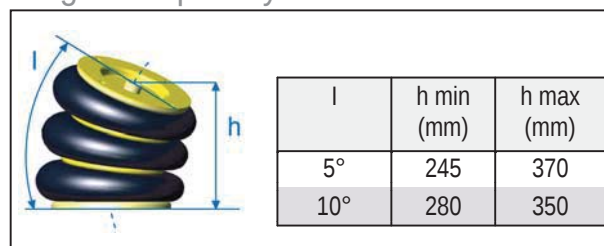
Charateristics	2 bar	4 bar	6 bar
Load (daN)	385	810	1235
Volume (dm ³)	9.1	9.2	9.2
Stiffness (daN/cm)	41	74	107
Natural frequency (Hz)	1.63	1.51	1.46
Isolation rate at 10 Hz	97.3%	97.7%	97.8%

* Recommended height for better isolation

Misalignment



Angular capability



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PNEUSPRING

12" x 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: 9 daN. When tracking air springs, special cares 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	305 mm
Maximum diameter	330 mm
Minimum space envelope	350 mm
Static height	100 mm
Minimum height	50 mm
Recommended maximum height	135 mm
Maximum height	150 mm
Total stroke	100 mm
Effective area	477 cm ²
Stiffness at 4 bar	87.00 daN/mm
Natural frequency at 4 bar	2,70 Hz
Weight of the bellows	5.2 kg

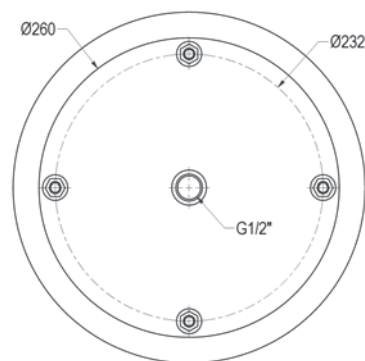
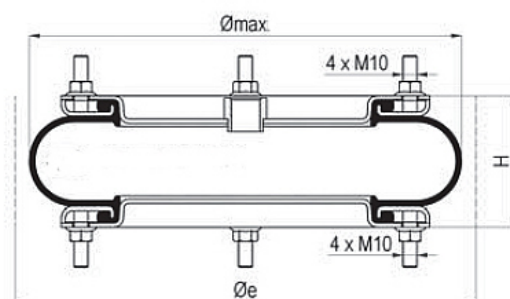
References table

PB1217	12" x 1
PB1217/B	12" x 1 chlorobutyl
PB1217/E	12" x 1 epichlore

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

Distributor:

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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

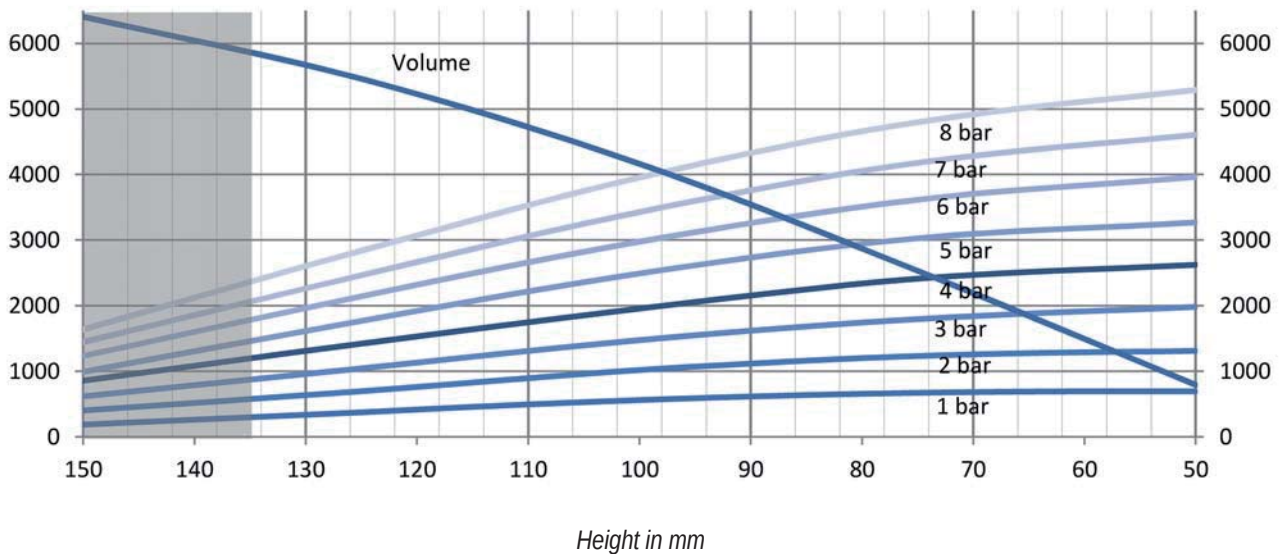
12" x 1

Specifications

Graphic

Volume in cm^3

Load in daN



Characteristics in static condition (daN)

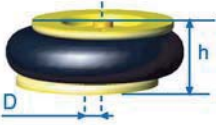
Height	2 bar	4 bar	6 bar	8 bar
50	1312	2625	3964	5291
75	1232	2411	3616	4499
100	1018	1955	2976	3954
125	696	1420	2143	2838
150	402	857	1232	1637

Dynamic characteristics at H = 120mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	795	1625	2455
Volume (dm^3)	4.95	5.12	5.28
Stiffness (daN/cm)	230	413	588
Natural frequency (Hz)	2.69	2.51	2.44
Isolation rate at 10 Hz	92.2%	93.3%	93.7%

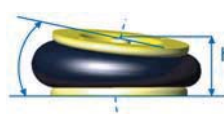
* Recommended height for better isolation

Misalignment



D	h min (mm)	h max (mm)
5 mm	70	135
10 mm	80	130

Angular capability



l	h min (mm)	h max (mm)
10°	75	115
15°	90	105

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PNEUSPRING

12" x 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: 9 daN. When tracking air springs, special cares 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	305 mm
Maximum diameter	330 mm
Minimum space envelope	350 mm
Static height	170 mm
Minimum height	75 mm
Recommended maximum height	245 mm
Maximum height	270 mm
Total stroke	195 mm
Effective area	460 cm ²
Stiffness at 4 bar	39.00 daN/mm
Natural frequency at 4 bar	1.86 Hz
Weight of the bellows	6.7 kg

References table

PB1228	12" x 2
PB1228/B	12" x 2 chlorobutyl
PB1228/E	12" x 2 epichlore

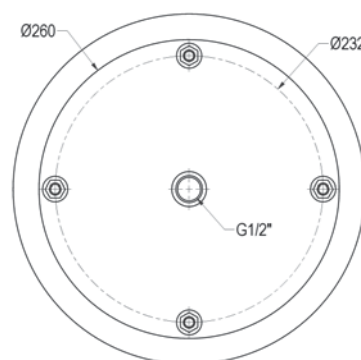
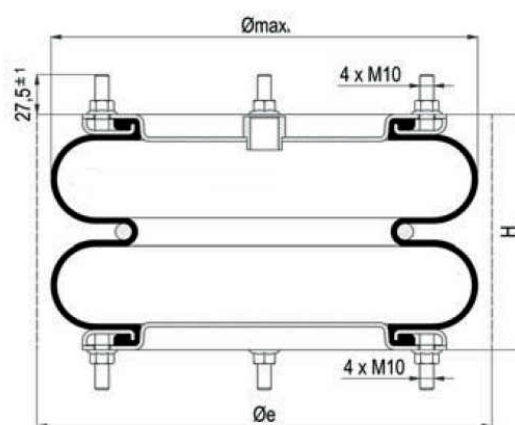
For information only. For complete range, contact our technical sales department.

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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

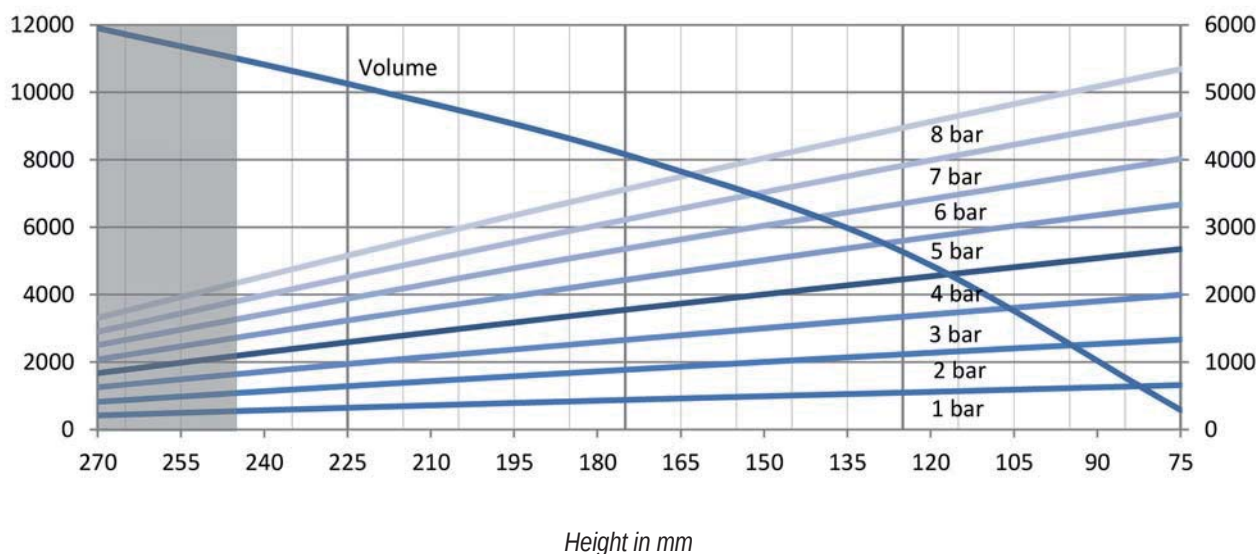
12" × 2

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
75	1334	2677	4013	5344
125	1113	2225	3351	4474
175	886	1776	2679	3560
225	642	1294	1938	2578
270	408	836	1250	1654

Dynamic characteristics at H = 220mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	700	1465	2225
Volume (dm ³)	9.19	9.52	9.85
Stiffness (daN/cm)	109	200	285
Natural frequency (Hz)	1.97	1.84	1.78
Isolation rate at 10 Hz	96.0%	96.5%	96.7%

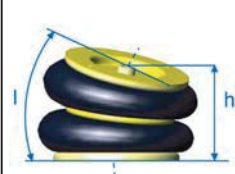
* Recommended height for better isolation

Misalignment



D	h min (mm)	h max (mm)
5 mm	95	280
10 mm	105	270

Angular capability



l	h min (mm)	h max (mm)
5°	100	255
10°	110	245

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PNEUSPRING

12" × 3 (4 ply)

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: 90 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	305 mm
Maximum diameter	330 mm
Minimum space envelope	350 mm
Static height	250 mm
Minimum height	120 mm
Recommended maximum height	350 mm
Maximum height	430 mm
Total stroke	310 mm
Effective area	490 cm ²
Stiffness at 4 bar	30 daN/mm
Natural frequency at 4 bar	1.66 Hz
Weight of the bellows	9 kg

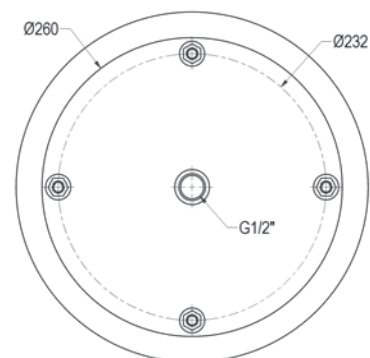
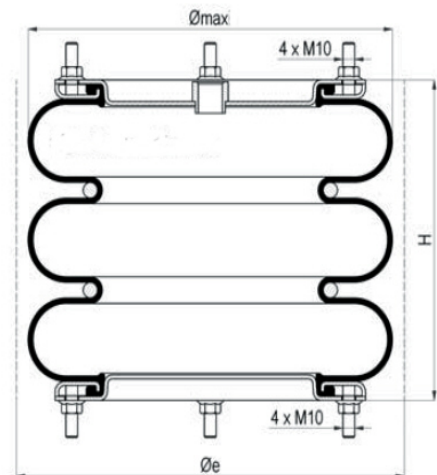
References table

PB1238	12" x 3 4 ply
PB1238/B	12" x 3 4 ply chlorobutyl
PB1238/E	12" x 3 4 ply epichlore

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

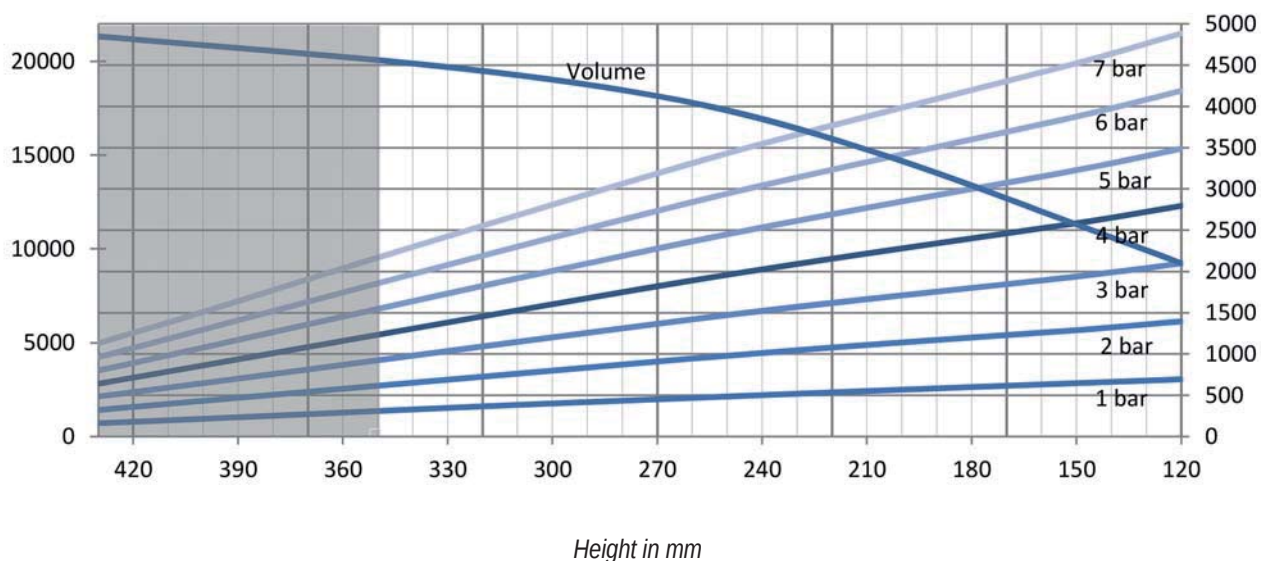
12" × 3 (4 ply)

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

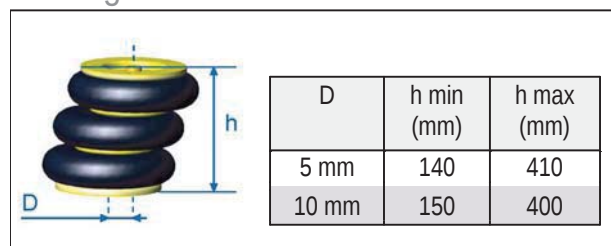
Height	2 bar	4 bar	6 bar	8 bar
120	1 395	2 794	4 189	
150	1 289	2 585	3 877	
200	1 140	2 279	3 417	
250	978	1 959	2 943	
300	798	1 603	2 408	
350	616	1 233	1 857	
400	432	861	1 295	
430	321	639	961	

Dynamic characteristics at H = 320mm*

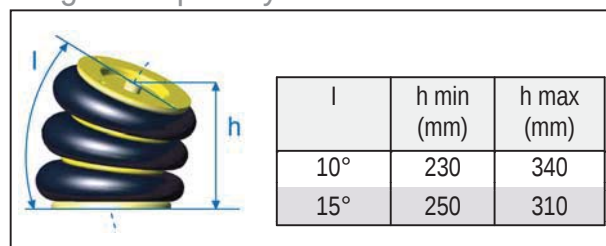
Charateristics	2 bar	4 bar	6 bar
Load (daN)	850	1595	2340
Volume (dm ³)	13.7	13.9	14.1
Stiffness (daN/cm)	98	156	215
Natural frequency (Hz)	1.69	1,56	1.51
Isolation rate at 10 Hz	97.1%	97.5%	97.7%

* Recommended height for better isolation

Misalignment



Angular capability



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PNEUSPRING

14½" x 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: 8 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.

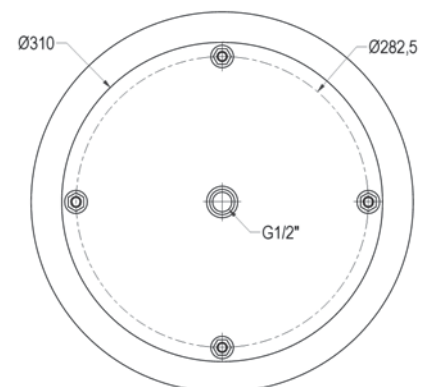
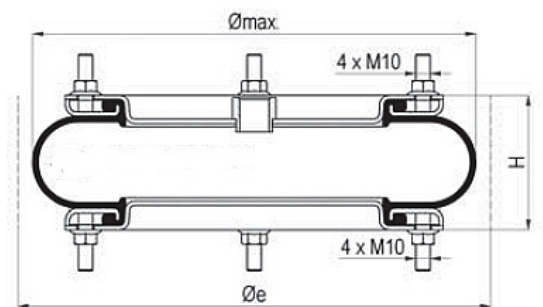
Specifications data

Static diameter	368 mm
Maximum diameter	395 mm
Minimum space envelope	425 mm
Static height	110 mm
Minimum height	50 mm
Recommended maximum height	150 mm
Maximum height	165 mm
Total stroke	115 mm
Effective area	710 cm ²
Stiffness at 4 bar	112 daN/mm
Natural frequency at 4 bar	2.60 Hz
Weight of the bellows	6.90 kg

References table

PB1417	14½" x 1
PB1417/B	14½" x 1 chlorobutyl
PB1417/E	14½" x 1 epichlore

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

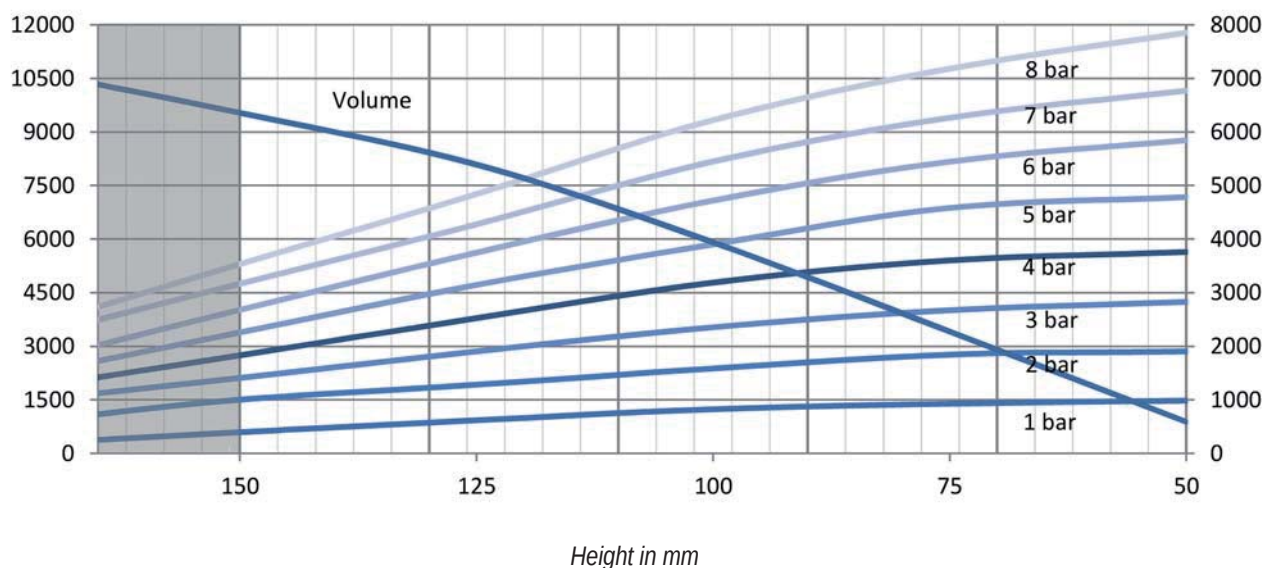
14½" x 1

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

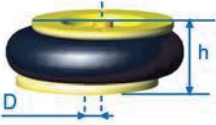
Height	2 bar	4 bar	6 bar	8 bar
50	1 901	3 759	5 847	7 856
75	1 843	3 602	5 447	7 181
100	1 584	3 189	4 721	6 223
125	1 282	2 523	3 748	4 841
150	1 002	1 830	2 679	3 534
165	730	1 420	2 018	2 736

Dynamic characteristics at H = 130mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	1325	2635	3940
Volume (dm ³)	8.66	8.97	9.28
Stiffness (daN/cm)	328	559	784
Natural frequency (Hz)	2.48	2.30	2.22
Isolation rate at 10 Hz	93.4%	94.4%	94.8%

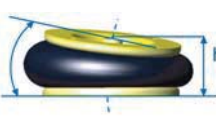
* Recommended height for better isolation

Misalignment



D	h min (mm)	h max (mm)
5 mm	105	170
10 mm	85	160

Angular capability



l	h min (mm)	h max (mm)
5°	65	145
10°	85	135

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PNEUSPRING

14½" x 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: 8 daN. When tracking air springs, special cares 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	368 mm
Maximum diameter	395 mm
Minimum space envelope	425 mm
Static height	180 mm
Minimum height	70 mm
Recommended maximum height	270 mm
Maximum height	295 mm
Total stroke	225 mm
Effective area	780 cm ²
Stiffness at 4 bar	53 daN/mm
Natural frequency at 4 bar	1.8 Hz
Weight of the bellows	9.1 kg

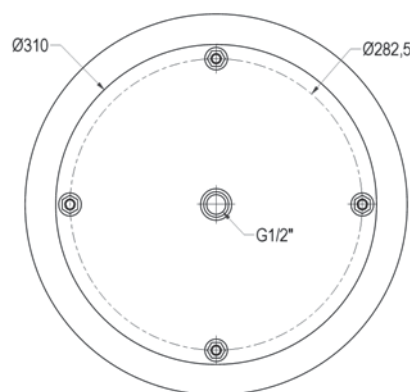
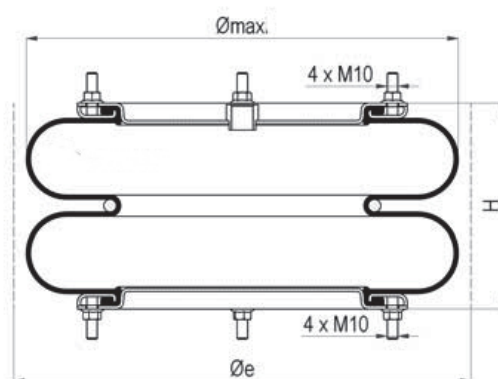
References table

PB1428	14½" x 2
PB1428/B	14½" x 2 chlorobutyl
PB1428/E	14½" x 2 epichlore

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

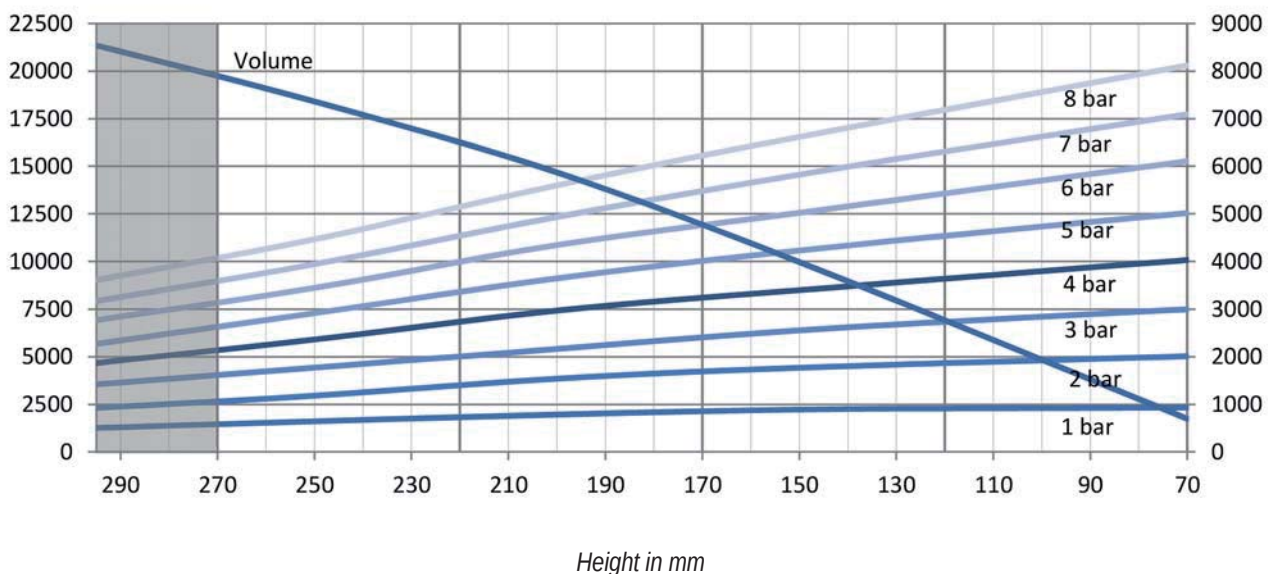
14½" x 2

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
70	2 010	4 031	6 107	8119
100	1 923	3 798	5 701	7558
150	1 768	3 395	5 023	6618
200	1 539	2 971	4 346	5601
250	1 181	2 361	3 446	4468
295	925	1 869	2 770	3609

Dynamic characteristics at H = 250mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	1185	2380	3560
Volume (dm ³)	17.2	17.8	18.4
Stiffness (daN/cm)	151	264	373
Natural frequency (Hz)	1.78	1.66	1.61
Isolation rate at 10 Hz	96.7%	97.2%	97.3%

* Recommended height for better isolation

Misalignment

D	h min (mm)	h max (mm)
5 mm	110	340
10 mm	120	330

Angular capability

l	h min (mm)	h max (mm)
10°	115	290
15°	135	275

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PNEUSPRING

14½" x 3 (4 ply)

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: 85 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.

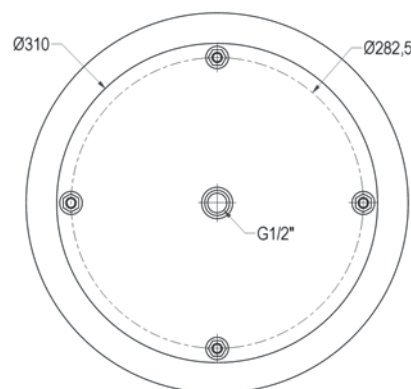
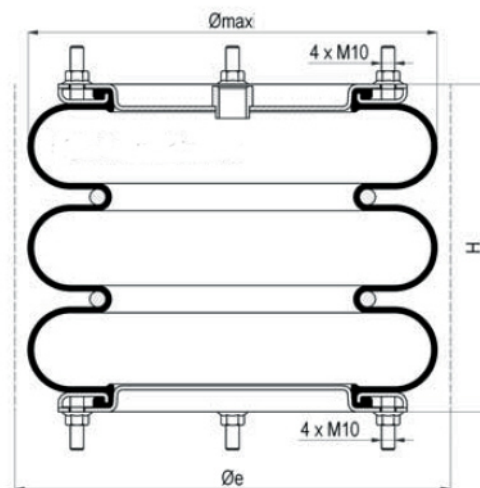
Specifications data

Static diameter	368 mm
Maximum diameter	395 mm
Minimum space envelope	425 mm
Static height	280 mm
Minimum height	120 mm
Recommended maximum height	420 mm
Maximum height	450 mm
Total stroke	330 mm
Effective area	800 cm ²
Stiffness at 4 bar	32 daN/mm
Natural frequency at 4 bar	1.4 Hz
Weight of the bellows	11 kg

References table

PB1438	14½" x 3 4 ply
PB1438/B	14½" x 3 4 ply chlorobutyl
PB1438/E	14½" x 3 4 ply epichlore

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

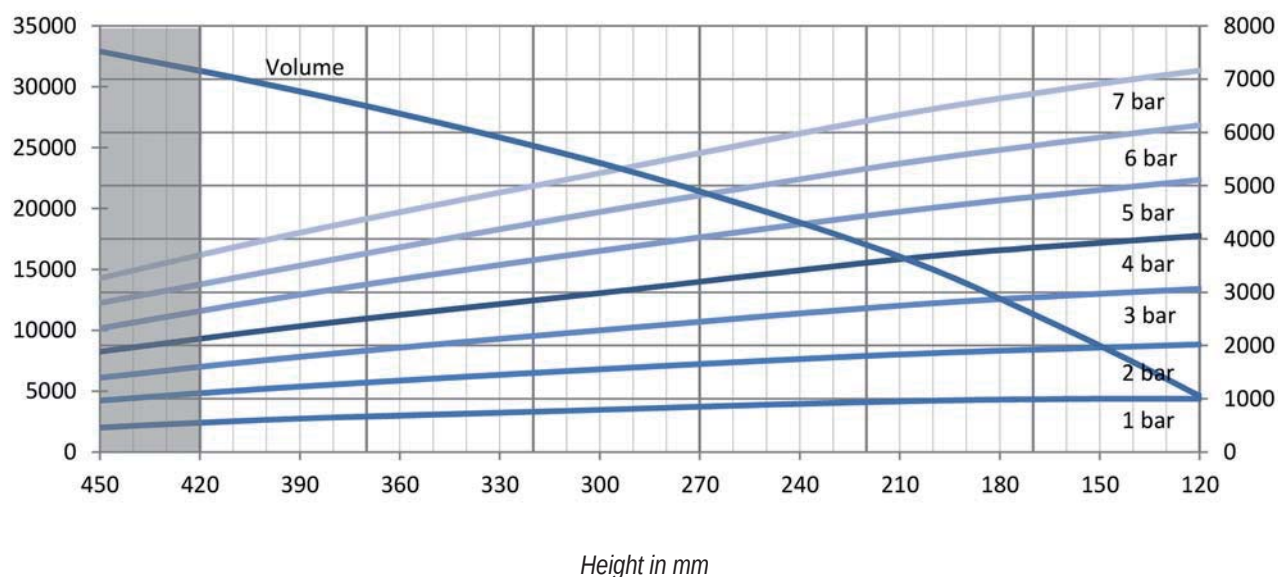
14½" x 3 (4 ply)

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

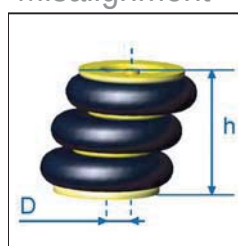
Height	2 bar	4 bar	6 bar	8 bar
120	2 018	4 058	6 134	
150	1 961	3 926	5 904	
200	1 856	3 681	5 504	
250	1 711	3 337	5 021	
300	1 554	2 982	4 504	
350	1 377	2 642	3 957	
400	1 189	2 284	3 379	
450	967	1 884	2 796	

Dynamic characteristics at H = 350mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	1095	2220	3350
Volume (dm ³)	23.8	24.0	24.2
Stiffness (daN/cm)	99	177	254
Natural frequency (Hz)	1.50	1.41	1.37
Isolation rate at 10 Hz	97.7%	98.0%	98.1%

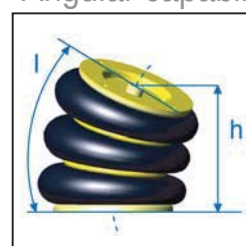
* Recommended height for better isolation

Misalignment



D	h min (mm)	h max (mm)
5 mm	160	440
10 mm	170	430

Angular capability



I	h min (mm)	h max (mm)
10°	300	390
15°	310	370

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PNEUSPRING

16" x 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: 8 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	25 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	406 mm
Maximum diameter	440 mm
Minimum space envelope	450 mm
Static height	130 mm
Minimum height	50 mm
Recommended maximum height	190 mm
Maximum height	210 mm
Total stroke	160 mm
Effective area	830 cm ²
Stiffness at 4 bar	38.63 daN/mm
Natural frequency at 4 bar	1.70 Hz
Weight of the bellows	7 kg

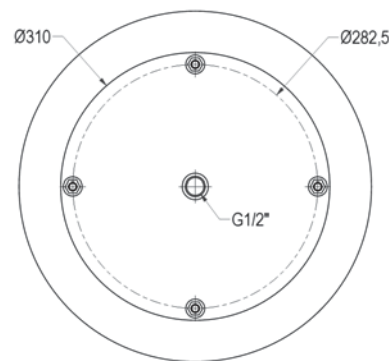
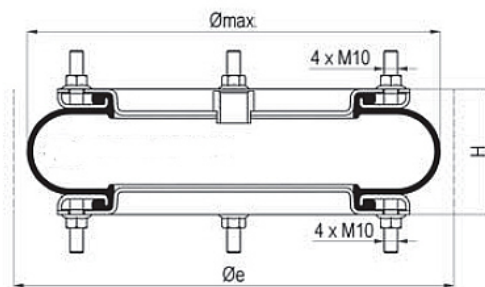
References table

PB1617	16" x 1
PB1617/B	16" x 1 chlorobutyl
PB1617/E	16" x 1 epichlore

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

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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)

PNEUSPRING

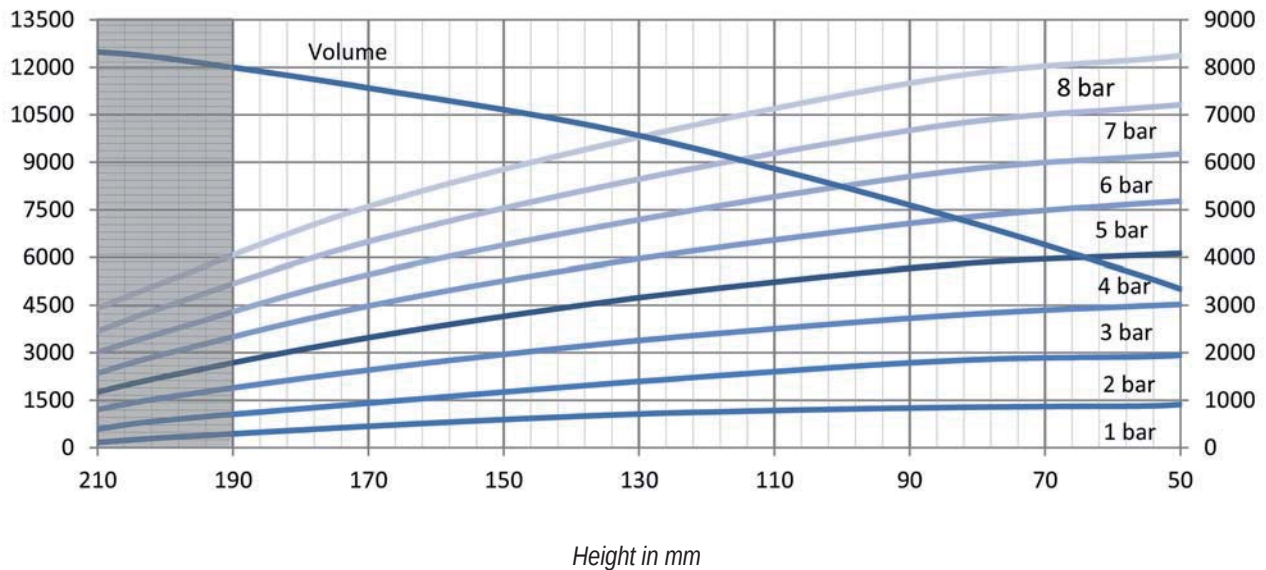
16" x 1

Specifications

Graphic

Volume in cm^3

Load in daN



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
50	1945	4084	6174	8243
55	1920	4053	6126	8176
85	1826	3836	5793	7782
130	1396	3160	4794	6529
170	938	2318	3644	5067
200	579	1500	2441	3493
210	396	1172	2016	2940

Dynamic characteristics at H = xxmm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)			
Volume (dm^3)			
Stiffness (daN/cm)			
Natural frequency (Hz)			
Isolation rate at 10 Hz			

* Recommended height for better isolation

Misalignment

	D	h min (mm)	h max (mm)
	10 mm	85	195

Angular capability

	I	h min (mm)	h max (mm)
	10 °	85	180

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PNEUSPRING

16" x 2 (4 ply)

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: 64 daN. When tracking air springs, special cares 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.

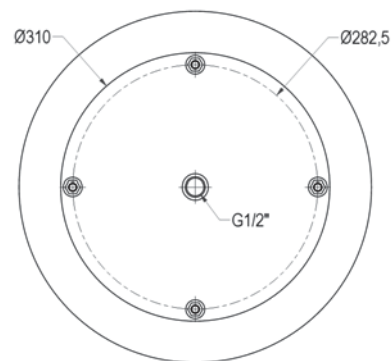
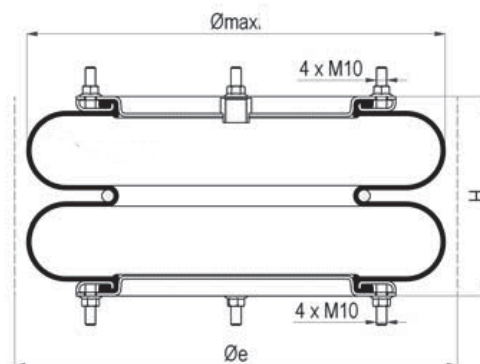
Specifications data

Static diameter	406 mm
Maximum diameter	440 mm
Minimum space envelope	460 mm
Static height	200 mm
Minimum height	85 mm
Recommended maximum height	300 mm
Maximum height	325 mm
Total stroke	240 mm
Effective area	870 cm ²
Stiffness at 4 bar	63 daN/mm
Natural frequency at 4 bar	1.71 Hz
Weight of the bellows	10.4 kg

References table

PB16224	16" x 2 4 ply
PB16224/B	16" x 2 4 ply chlorobutyl
PB16224/E	16" x 2 4 ply epichlore

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:

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

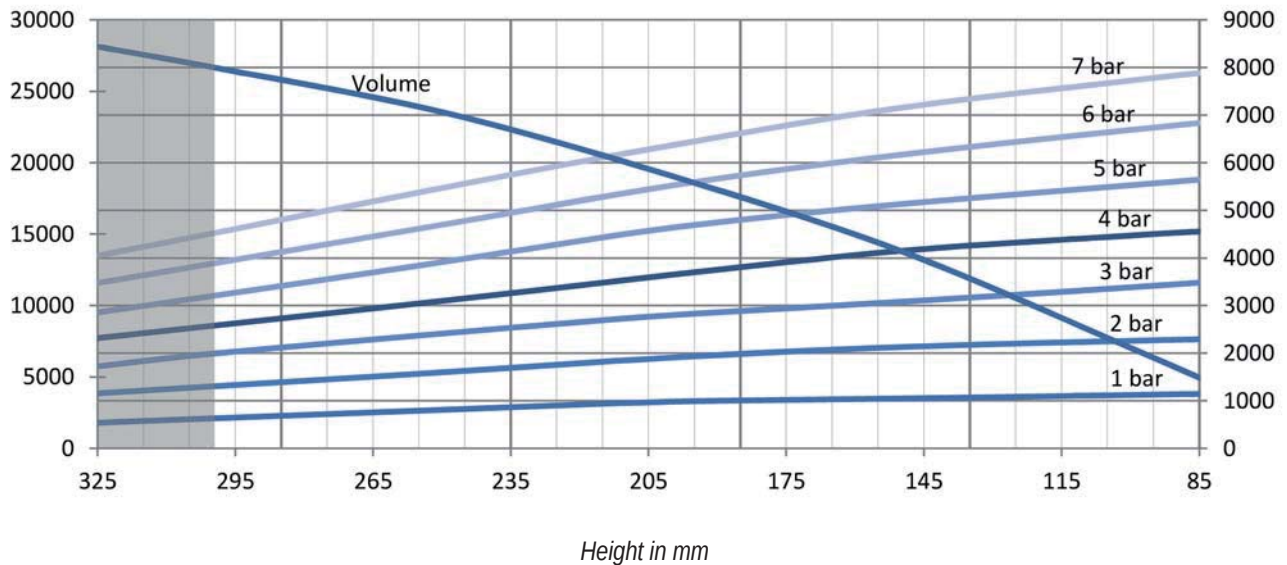
16" x 2 (4 ply)

Specifications

Graphic

Volume in cm^3

Load in daN



Characteristics in static condition (daN)

Height	2 bar	4 bar	6 bar	8 bar
85	2 290	4 557	6 837	
100	2 259	4 470	6 687	
150	2 128	4 147	6 168	
200	1 906	3 643	5 518	
250	1 597	3 096	4 696	
300	1 302	2 575	3 881	
325	1 156	2 315	3 473	

Dynamic characteristics at H = 280mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	1255	2545	3825
Volume (dm^3)	22.2	22.6	22.9
Stiffness (daN/cm)	133	237	339
Natural frequency (Hz)	1.62	1.52	1.48
Isolation rate at 10 Hz	97.3%	97.6%	97.7%

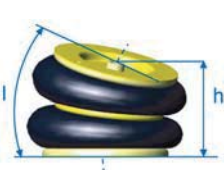
* Recommended height for better isolation

Misalignment



D	h min (mm)	h max (mm)
5 mm	170	325
10 mm	180	315

Angular capability



l	h min (mm)	h max (mm)
5°	125	325
10°	135	315

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16" x 3 (4 ply)

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: 64 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.

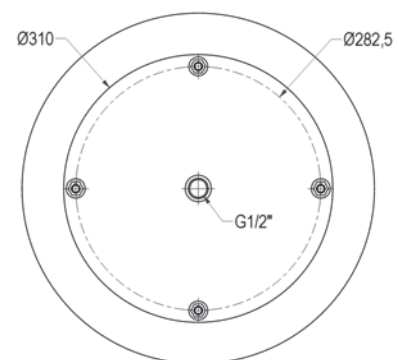
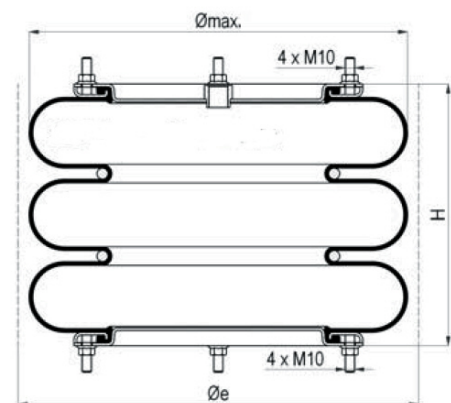
Specifications data

Static diameter	406 mm
Maximum diameter	440 mm
Minimum space envelope	460 mm
Static height	300 mm
Minimum height	125 mm
Recommended maximum height	475 mm
Maximum height	500 mm
Total stroke	375 mm
Effective area	850 cm ²
Stiffness at 4 bar	31.00 daN/mm
Natural frequency at 4 bar	1.20 Hz
Weight of the bellows	12.5 kg

References table

PB1638	16" x 3
PB1638/B	16" x 3 chlorobutyl
PB1638/E	16" x 3 epichlore

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

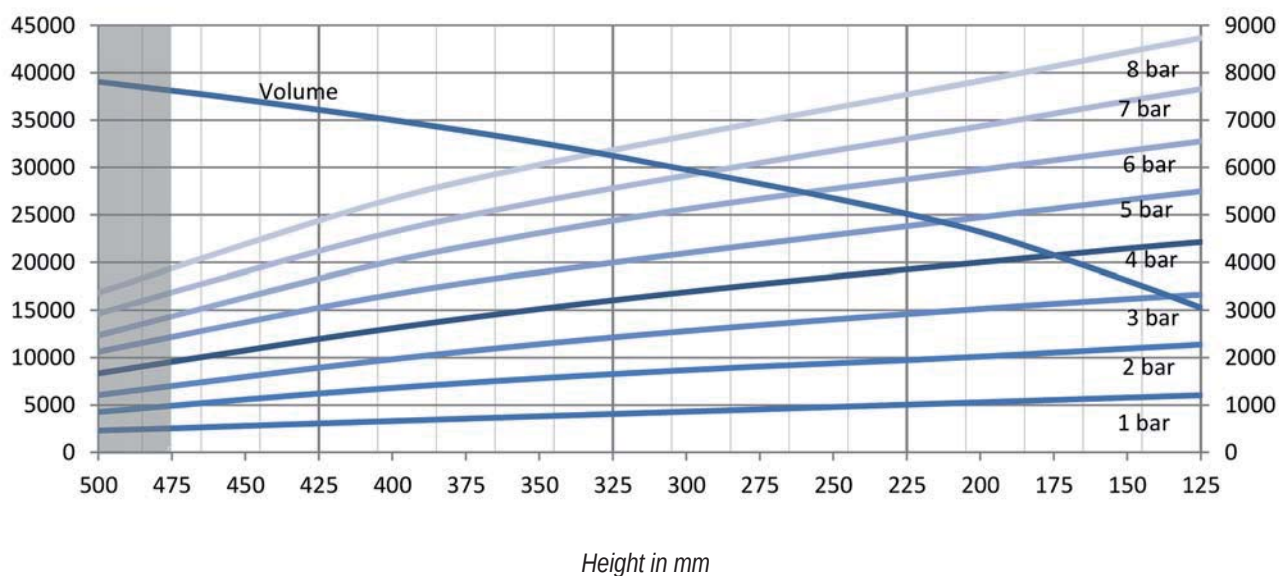
16" x 3 (4 ply)

Specifications

Graphic

Volume in cm³

Load in daN



Characteristics in static condition (daN)

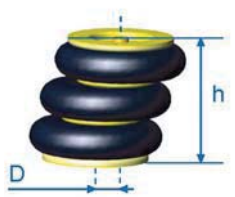
Height	2 bar	4 bar	6 bar	8 bar
125	2 274	4 427	6 552	8 730
150	2 190	4 291	6 350	8 435
200	2 020	3 996	5 951	7 827
250	1 880	3 702	5 549	7 252
300	1 737	3 383	5 121	6 664
350	1 560	3 024	4 615	6 058
400	1 360	2 618	4 029	5 337
450	1 116	2 153	3 267	4 380
500	851	1 667	2 469	3 365

Dynamic characteristics at H = 400mm*

Charateristics	2 bar	4 bar	6 bar
Load (daN)	1305	2615	3950
Volume (dm ³)	32,8	33,3	33,8
Stiffness (daN/cm)	96	168	244
Natural frequency (Hz)	1.35	1.26	1.24
Isolation rate at 10 Hz	98.1%	98.4%	98.4%

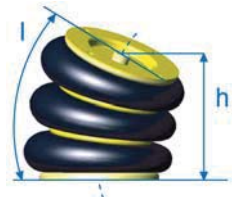
* Recommended height for better isolation

Misalignment



D	h min (mm)	h max (mm)
5 mm	275	500
10 mm	290	485

Angular capability



l	h min (mm)	h max (mm)
10°	350	480
15°	370	450

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