

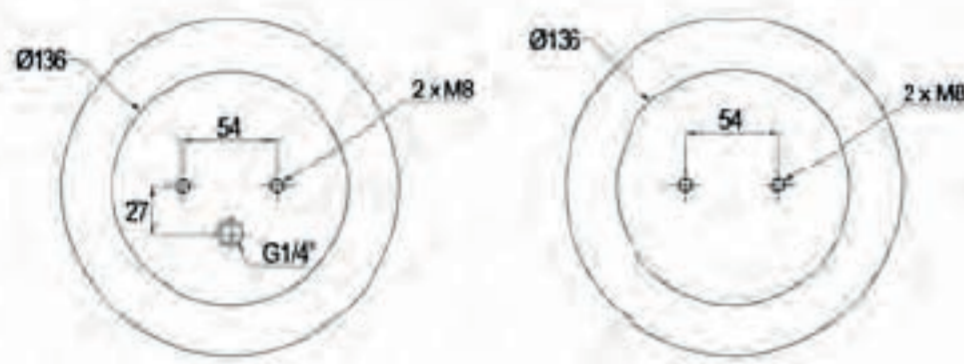
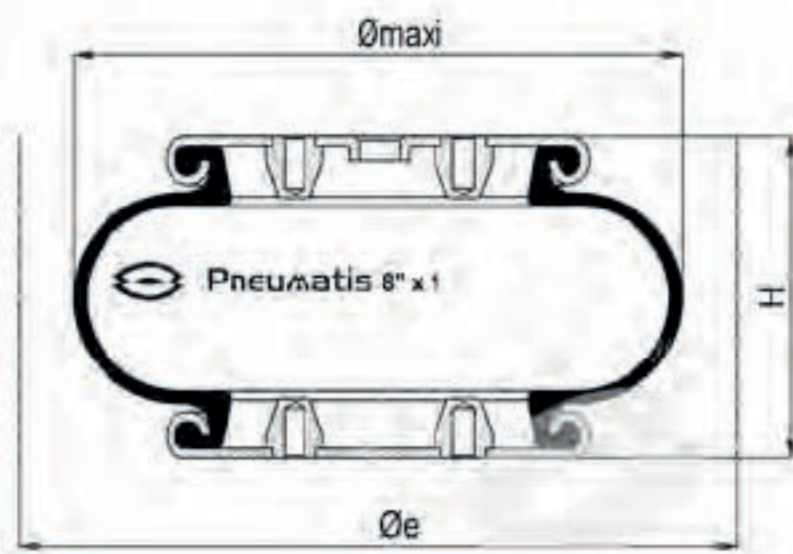
# Crimped bellow 8" x 1

DBS081003



PNEUMATIS

INDUSTRY



## Technical characteristics

Maximum pressure	8 bar
Burst pressure	24 bar
Maximum angular capacity	15°
Maximum out of alignment	10 mm

Static diameter	185 mm
Maximum diameter	200 mm
Minimum overall diameter (Øe)	230 mm
Minimum height	50 mm
Static height (H)	90 mm
Maximum height	130 mm
Maximum recommended height	115 mm
Total stroke	80 mm
Effective area at static height	154 cm <sup>2</sup>
Stiffness at 4 bar	18,83 daN/mm
Natural frequency at 4 bar	2,81 Hz
Weight	1,7 kg

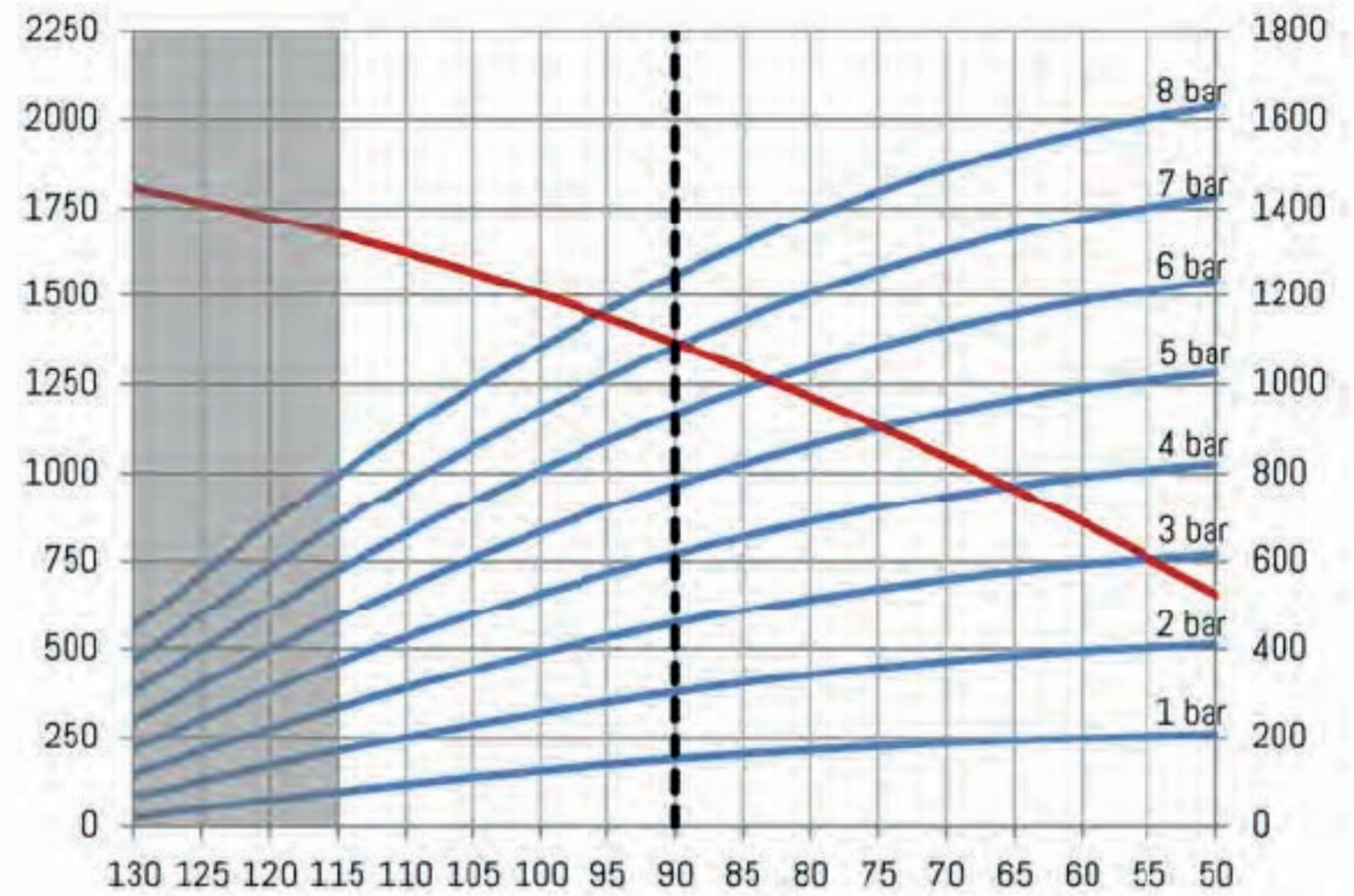
## Dynamic characteristics at H = 90mm\*

Pressure	2 bar	4 bar	6 bar
Load (daN)	303	616	934
Volume (dm <sup>3</sup> )	1,4	1,4	1,4
Stiffness (daN/mm)	9,74	18,83	28,95
Natural frequency (Hz)	2,87	2,81	2,78
Isolation rate at 10Hz %	91	91,4	91,6

\* Recommended height for better isolation

Volume in cm<sup>3</sup>

Load in daN



— Volume

- - - H Isolation

Height in mm

## Temperatures

Standard	-40°C (-50°C static)	+70°C (+90°C static)
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## References

DBS081003 Crimped bellow 1 convolute 8" x 1 air inlet G ¼ shifted

## Characteristics in static condition (daN)

Height	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	Vol 5 bar
50 mm	411	615	821	1026	1232	1427	1631	657 cm <sup>3</sup>
60 mm	395	593	792	990	1188	1376	1572	860 cm <sup>3</sup>
70 mm	372	560	748	936	1124	1302	1489	1046 cm <sup>3</sup>
80 mm	342	515	689	864	1039	1205	1380	1215 cm <sup>3</sup>
90 mm	303	459	616	774	934	1084	1245	1367 cm <sup>3</sup>
100 mm	256	391	528	667	808	941	1084	1503 cm <sup>3</sup>
110 mm	201	312	426	542	661	775	898	1621 cm <sup>3</sup>
115 mm	170	266	367	470	577	680	792	1672 cm <sup>3</sup>
120 mm	138	221	308	399	493	586	687	1723 cm <sup>3</sup>
130 mm	66	118	176	239	305	373	449	1808 cm <sup>3</sup>

## Mounting instructions

Fastening torque M8 x 1,25 : 25 Nm

Indicative value of force to reach the minimum height at atmospheric pressure is 5 daN.