

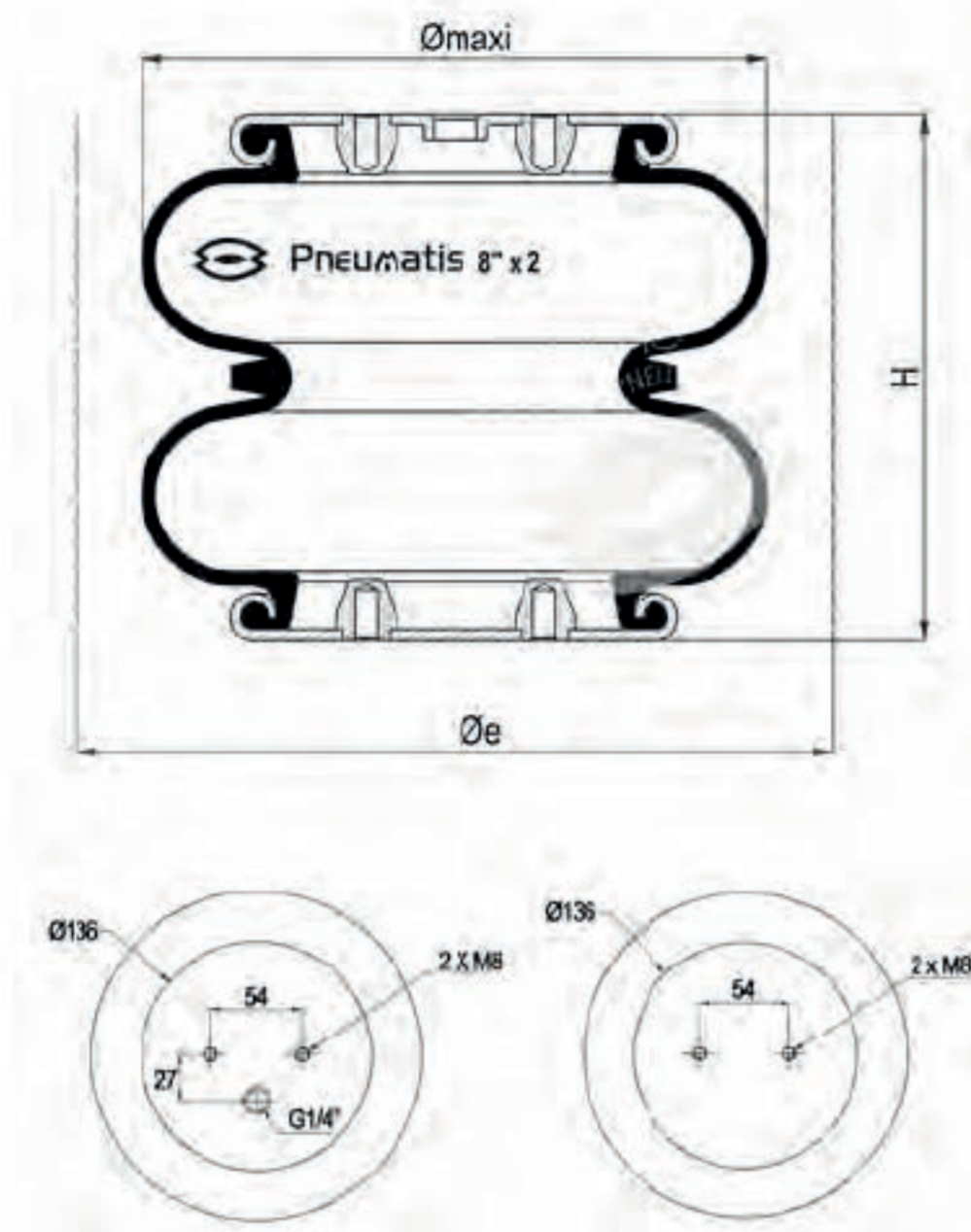
# Crimped bellow 8" x 2

DBS082003



PNEUMATIS

INDUSTRY



## Technical characteristics

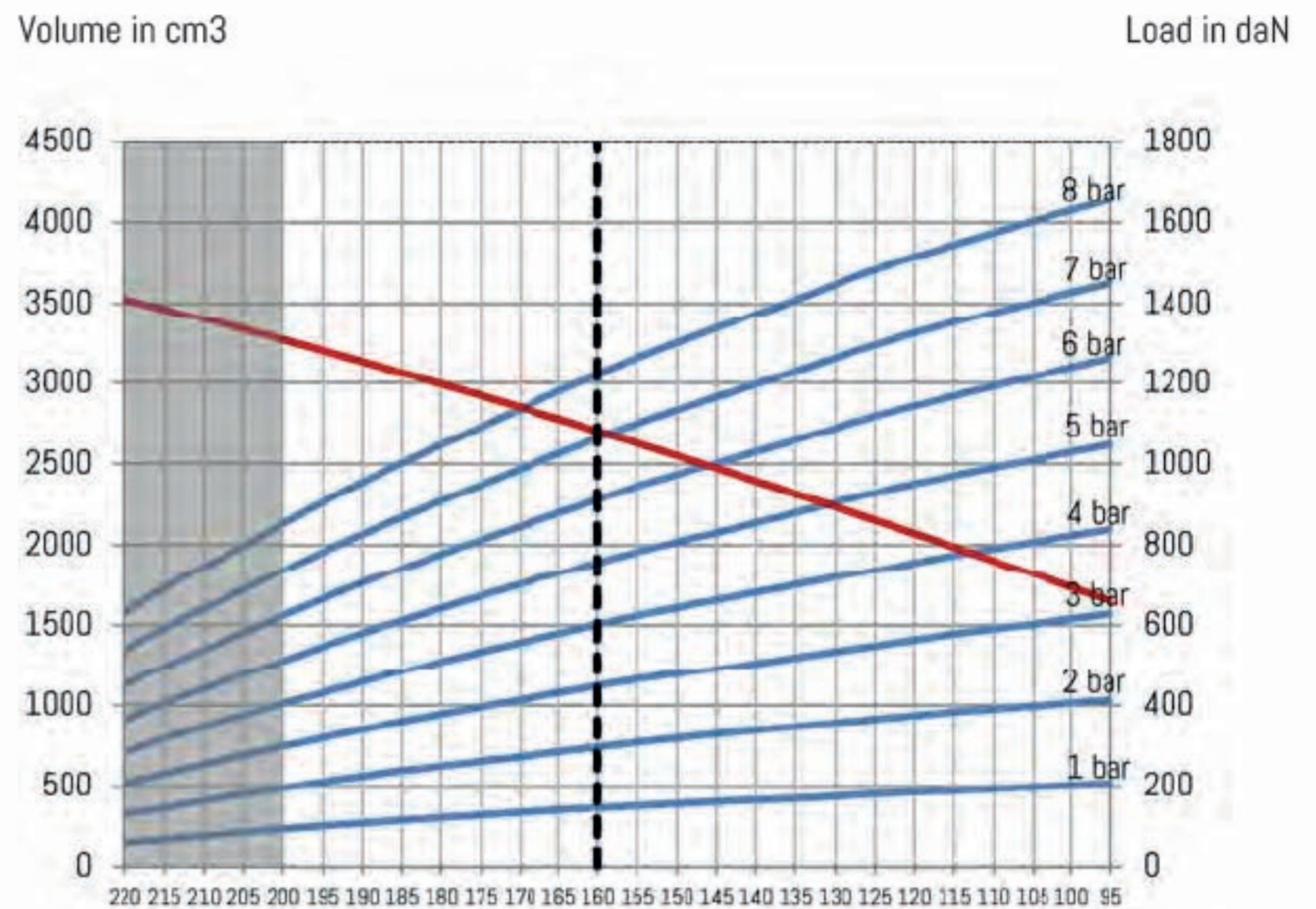
Maximum pressure	8 bar
Burst pressure	24 bar
Maximum angular capacity	15°
Maximum out of alignment	10 mm

Static diameter	185 mm
Maximum diameter	200 mm
Minimum overall diameter (Øe)	230 mm
Minimum height	95 mm
Static height (H)	160 mm
Maximum height	220 mm
Maximum recommended height	200 mm
Total stroke	125 mm
Effective area at static height	150 cm <sup>2</sup>
Stiffness at 4 bar	10,14 daN/mm
Natural frequency at 4 bar	2,07 Hz
Weight	2 kg

## Dynamic characteristics at H = 160mm\*

Pressure	2 bar	4 bar	6 bar
Load (daN)	296	602	912
Volume (dm <sup>3</sup> )	27	27	27
Stiffness (daN/mm)	5,42	10,14	15,11
Natural frequency (Hz)	2,14	2,07	2,03
Isolation rate at 10Hz %	95,2	95,5	95,7

\* Recommended height for better isolation



— Volume  
 - - - H Isolation  
 Temperatures

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

DBS082003	Crimped bellow 2 convolutes 8" x 2 air inlet G ¼ shifted
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## Characteristics in static condition (daN)

Height	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	Vol 5 bar
95 mm	414	629	840	1049	1262	1452	1658	1646 cm <sup>3</sup>
105 mm	398	603	807	1010	1215	1402	1603	1819 cm <sup>3</sup>
115 mm	383	579	775	971	1168	1351	1545	1989 cm <sup>3</sup>
125 mm	365	550	737	929	1118	1294	1484	2155 cm <sup>3</sup>
135 mm	347	521	699	880	1059	1229	1409	2316 cm <sup>3</sup>
145 mm	329	492	662	831	1002	1165	1336	2474 cm <sup>3</sup>
155 mm	308	465	624	784	945	1100	1262	2627 cm <sup>3</sup>
160 mm	296	448	602	756	912	1063	1220	2702 cm <sup>3</sup>
165 mm	285	431	580	729	879	1026	1179	2777 cm <sup>3</sup>
175 mm	261	396	535	672	813	948	1091	2922 cm <sup>3</sup>
185 mm	238	360	485	612	742	869	1002	3063 cm <sup>3</sup>
195 mm	211	319	431	548	665	783	906	3201 cm <sup>3</sup>
205 mm	180	277	376	477	582	688	798	3334 cm <sup>3</sup>
215 mm	147	231	318	406	498	593	692	3463 cm <sup>3</sup>
220 mm	132	207	283	363	450	539	631	3526 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 3 daN.