

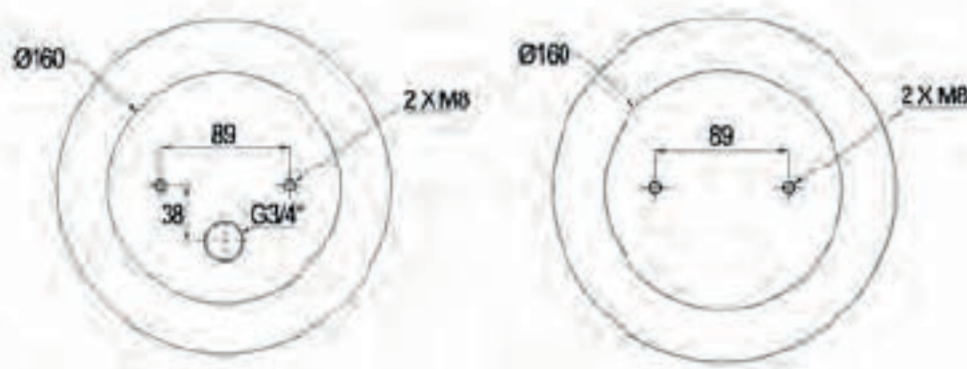
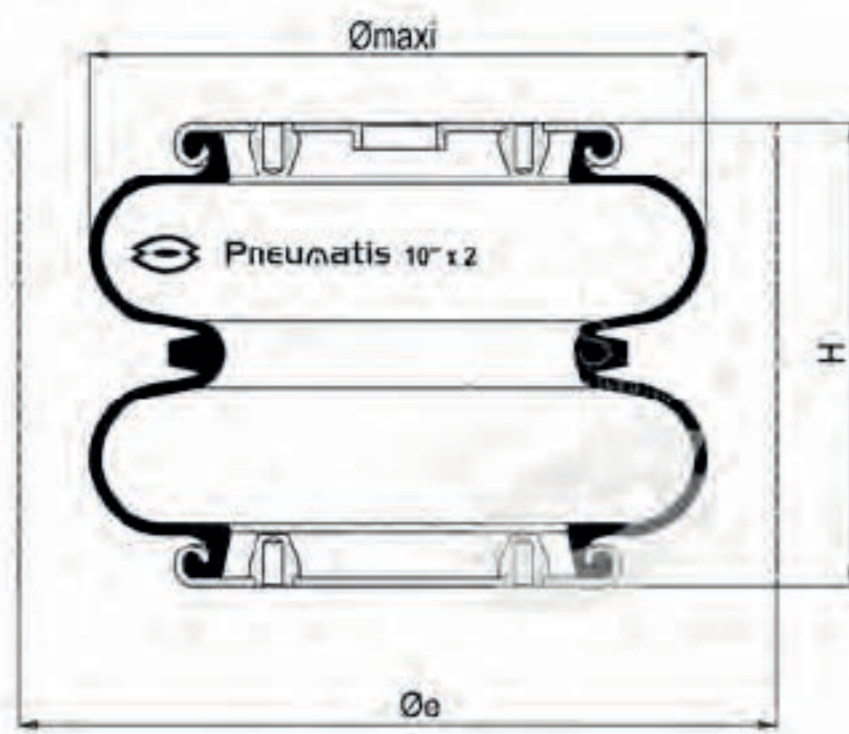
# Crimped bellow 10" x 2

DBS102001



PNEUMATIS

INDUSTRY



## Technical characteristics

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

Static diameter	220 mm
Maximum diameter	240 mm
Minimum overall diameter (Øe)	270 mm
Minimum height	90 mm
Static height (H)	165 mm
Maximum height	240 mm
Maximum recommended height	215 mm
Total stroke	150 mm
Effective area at static height	240 cm <sup>2</sup>
Stiffness at 4 bar	14,39 daN/mm
Natural frequency at 4 bar	1,83 Hz
Weight	2,7 kg

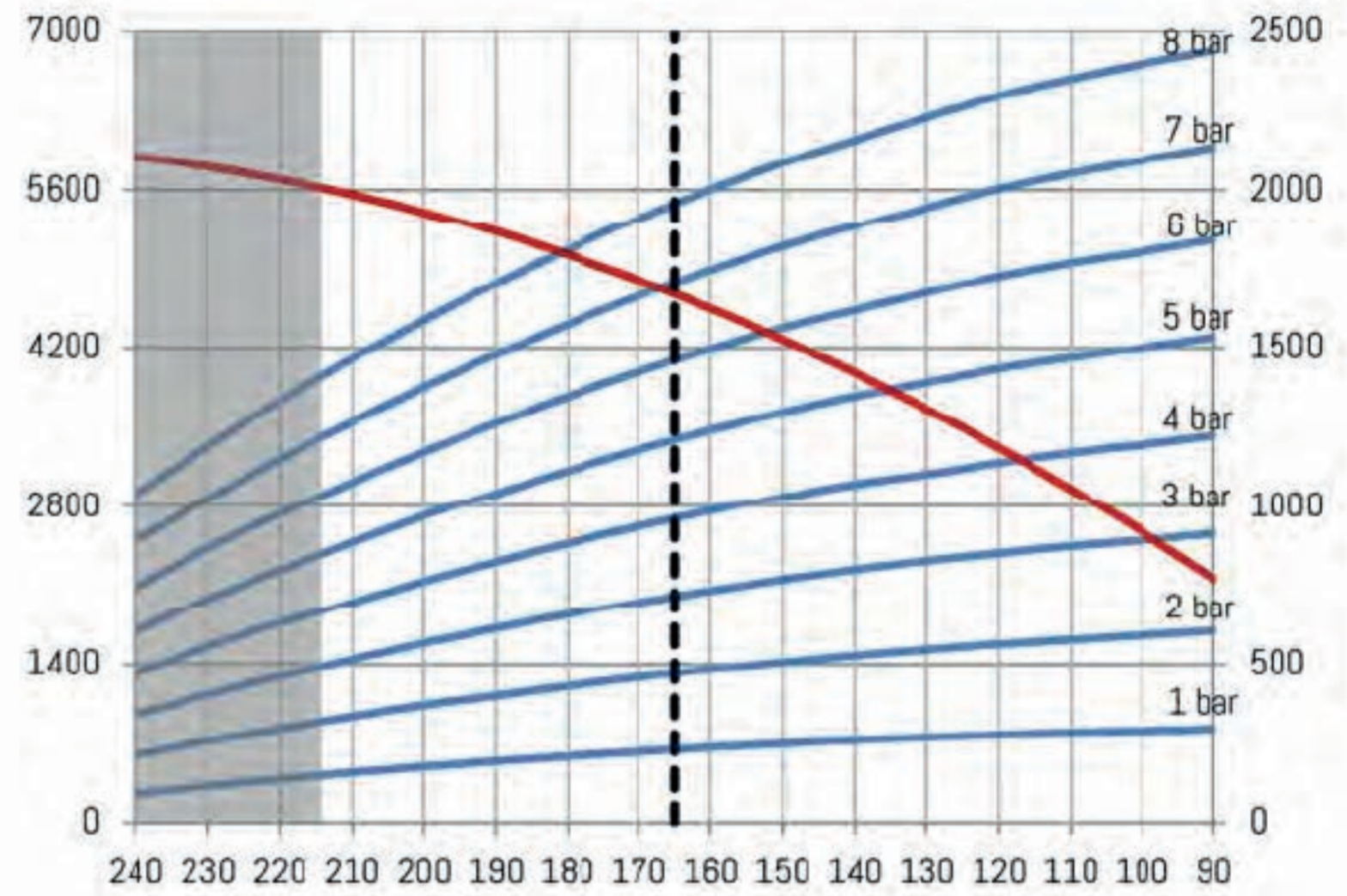
## Dynamic characteristics at H = 165mm\*

Pressure	2 bar	4 bar	6 bar
Load (daN)	471	960	1460
Volume (dm <sup>3</sup> )	46,7	46,7	46,7
Stiffness (daN/mm)	7,04	14,39	20,69
Natural frequency (Hz)	1,89	1,83	1,80
Isolation rate at 10Hz %	96,3	96,5	96,7

\* 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

DBS102001 Crimped bellow 2 convolutes 10" x 2 air inlet G<sup>3/4</sup> shifted

## Characteristics in static condition (daN)

Height	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	Vol 5 bar
90 mm	606	914	1224	1533	1840	2135	2439	2166 cm <sup>3</sup>
100 mm	592	893	1196	1500	1802	2095	2396	2574 cm <sup>3</sup>
120 mm	564	853	1139	1434	1724	2005	2297	3322 cm <sup>3</sup>
140 mm	528	802	1072	1347	1618	1884	2157	3979 cm <sup>3</sup>
160 mm	484	736	985	1241	1496	1744	2002	4545 cm <sup>3</sup>
165 mm	471	717	960	1210	1460	1703	1955	4669 cm <sup>3</sup>
170 mm	459	699	936	1180	1424	1662	1909	4793 cm <sup>3</sup>
180 mm	431	658	883	1114	1347	1573	1809	5020 cm <sup>3</sup>
190 mm	401	614	826	1043	1263	1478	1702	5223 cm <sup>3</sup>
200 mm	371	567	765	969	1173	1376	1586	5404 cm <sup>3</sup>
210 mm	336	516	699	886	1078	1267	1465	5562 cm <sup>3</sup>
215 mm	317	459	665	843	1027	1209	1400	5630 cm <sup>3</sup>
220 mm	298	462	630	800	976	1151	1334	5697 cm <sup>3</sup>
230 mm	259	405	557	709	869	1025	1191	5810 cm <sup>3</sup>
240 mm	214	340	470	605	744	890	1040	5900 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 6 daN.

