

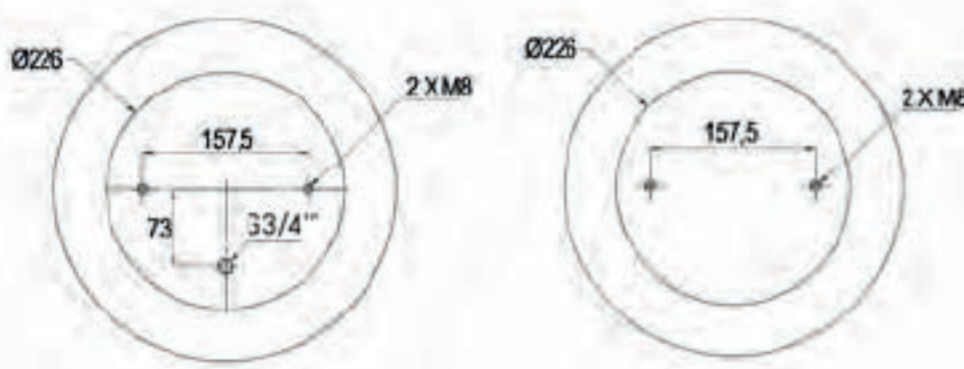
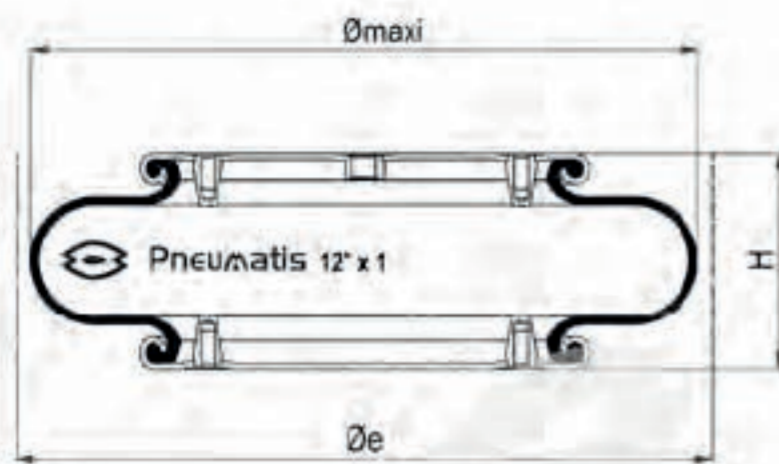
# Crimped bellow 12" x 1

DBS121002



PNEUMATIS

INDUSTRY



## Technical characteristics

Maximum pressure	8 bar
Burst pressure	27 bar
Maximum angular capacity	10°
Maximum out of alignment	10 mm

Static diameter	335 mm
Maximum diameter	335 mm
Minimum overall diameter (Øe)	360 mm
Minimum height	60 mm
Static height (H)	110 mm
Maximum height	165 mm
Maximum recommended height	155 mm
Total stroke	105 mm
Effective area at static height	490 cm <sup>2</sup>
Stiffness at 4 bar	43,18 daN/mm
Natural frequency at 4 bar	2,34 Hz
Weight	3,80 kg

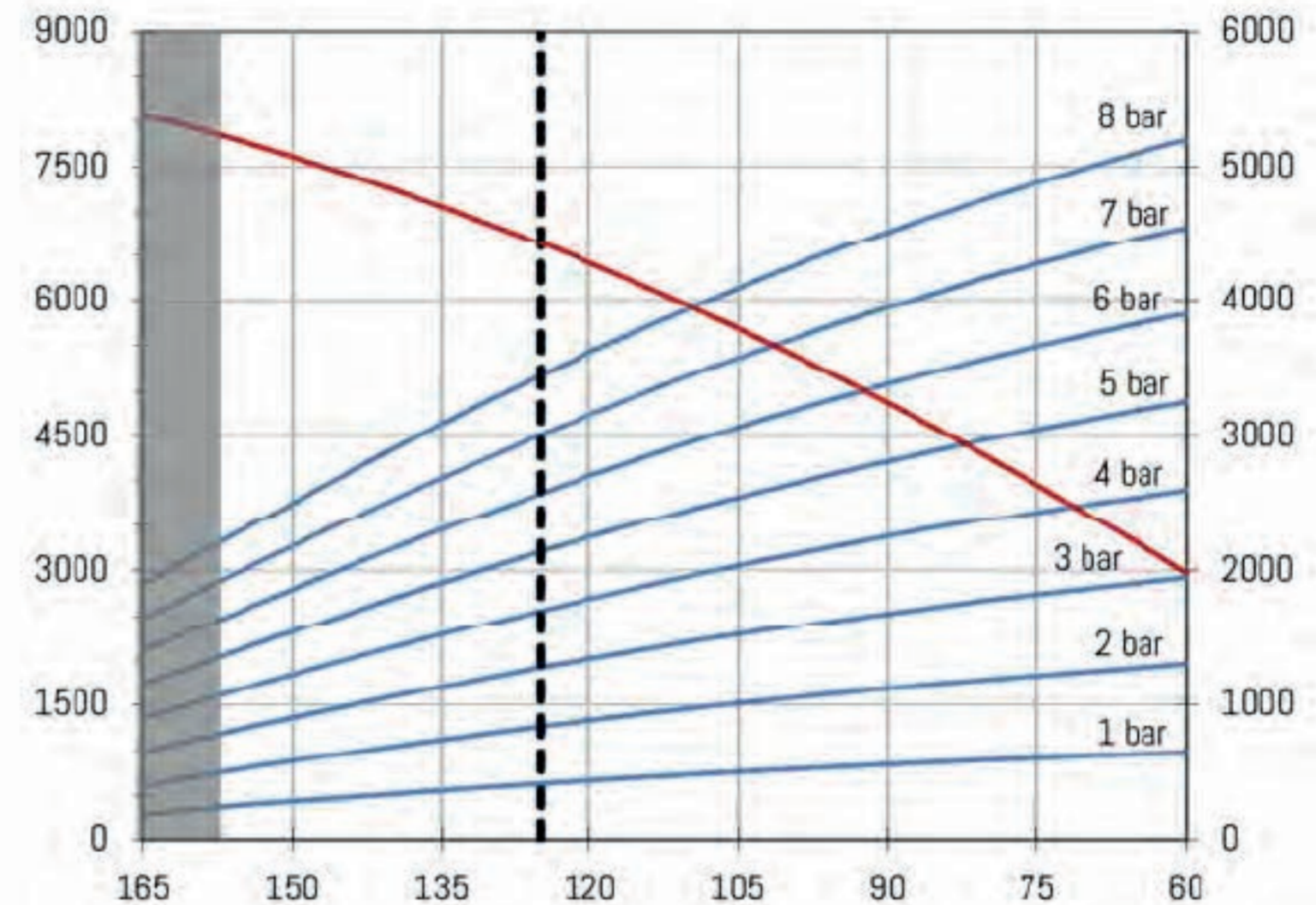
## Dynamic characteristics at H = 125 mm\*

Pressure	2 bar	4 bar	6 bar
Load (daN)	840	1705	2575
Volume (dm <sup>3</sup> )	6,36	6,50	6,64
Stiffness (daN/mm)	20,7	37,0	53,0
Natural frequency (Hz)	2,48	2,32	2,26
Isolation rate at 10Hz %	93,5	94,3	94,6

\* Recommended height for better isolation

Volume in cm<sup>3</sup>

Load in daN



— Volume  
- - - H Isolation

## Temperatures

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

DBS121002 Crimped bellow 1 convolute 12" x 1 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 6 bar
60 mm	1300	1950	2600	3250	3900	4550	5200	2970 cm <sup>3</sup>
65 mm	1270	1910	2545	3185	3825	4465	5100	3310 cm <sup>3</sup>
80 mm	1185	1785	2380	2975	3570	4170	4765	4275 cm <sup>3</sup>
95 mm	1085	1635	2180	2730	3280	3830	4380	5150 cm <sup>3</sup>
110 mm	970	1465	1960	2455	2950	3445	3935	5940 cm <sup>3</sup>
125 mm	840	1275	1705	2140	2575	3010	3445	6640 cm <sup>3</sup>
140 mm	690	1060	1425	1795	2160	2530	2900	7250 cm <sup>3</sup>
155 mm	530	825	1120	1415	1710	2005	2300	7780 cm <sup>3</sup>
165 mm	400	650	900	1150	1400	1650	1900	8080 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.

