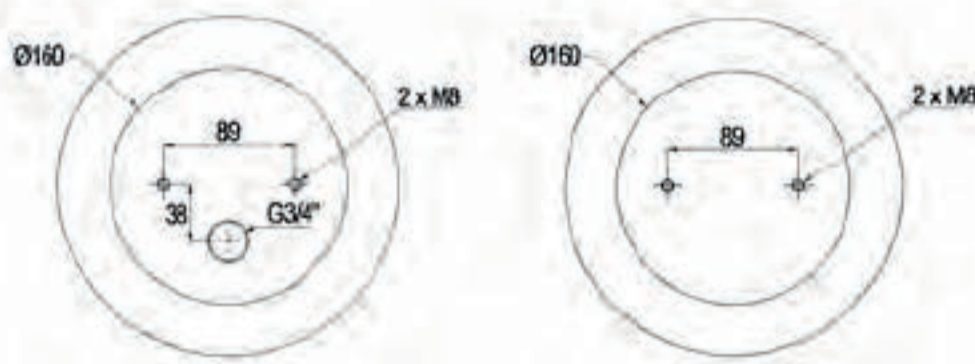
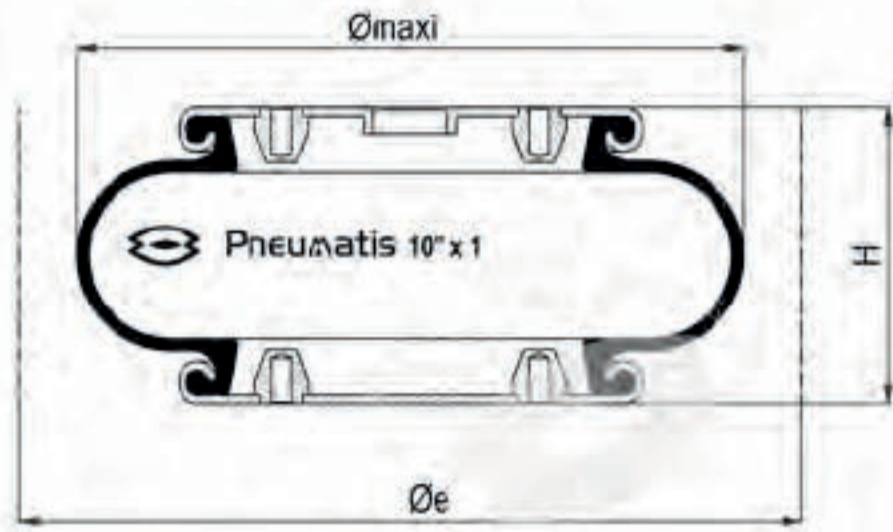


Crimped bellow 10" x 1

DBS101001

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	50 mm
Static height (H)	100 mm
Maximum height	150 mm
Maximum recommended height	135 mm
Total stroke	100 mm
Effective area at static height	227 cm ²
Stiffness at 4 bar	22,81 daN/mm
Natural frequency at 4 bar	2,37 Hz
Weight	2,2 kg

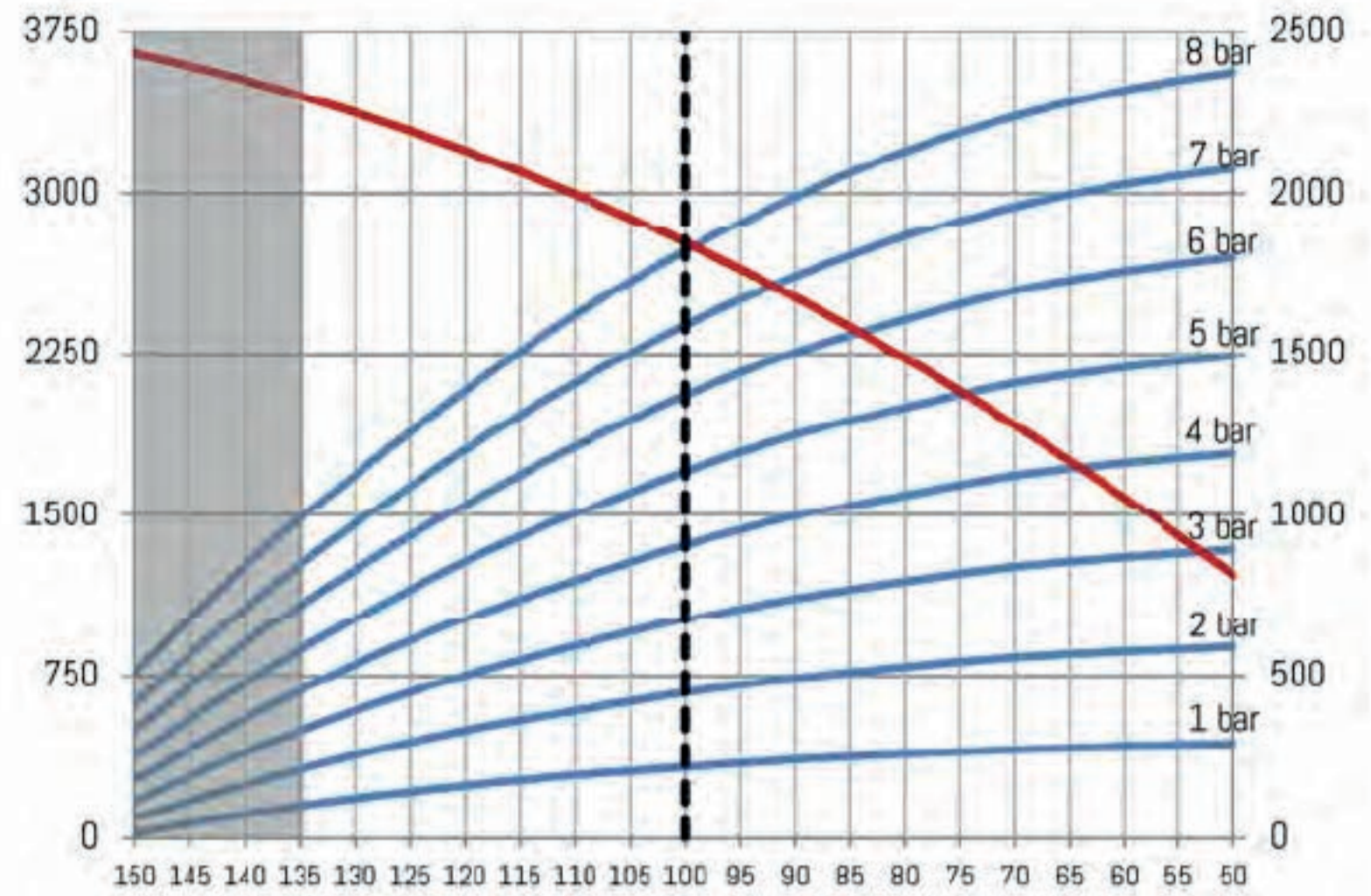
Dynamic characteristics at H = 100mm*

Pressure	2 bar	4 bar	6 bar
Load (daN)	449	907	1372
Volume (dm ³)	27,7	27,7	27,7
Stiffness (daN/mm)	11,54	22,81	34,25
Natural frequency (Hz)	2,42	2,37	2,33
Isolation rate at 10Hz %	93,8	94,0	94,3

* Recommended height for better isolation

Volume in cm³

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

DBS101001 Crimped bellow 1 convolute 10" x 1 air inlet G^{3/4} 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	591	893	1194	1494	1798	2078	2375	1224 cm ³
60 mm	576	870	1164	1458	1754	2029	2320	1585 cm ³
70 mm	558	841	1126	1410	1695	1960	2239	1920 cm ³
80 mm	528	796	1065	1334	1605	1863	2131	2229 cm ³
90 mm	493	744	997	1250	1504	1739	1989	2511 cm ³
100 mm	449	677	907	1138	1372	1588	1818	2767 cm ³
110 mm	393	594	799	1005	1215	1410	1620	2997 cm ³
120 mm	332	502	679	857	1034	1205	1386	3200 cm ³
130 mm	256	393	536	678	831	972	1127	3376 cm ³
140 mm	165	264	369	478	603	713	844	3526 cm ³
150 mm	62	114	179	254	331	414	510	3650 cm ³

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.