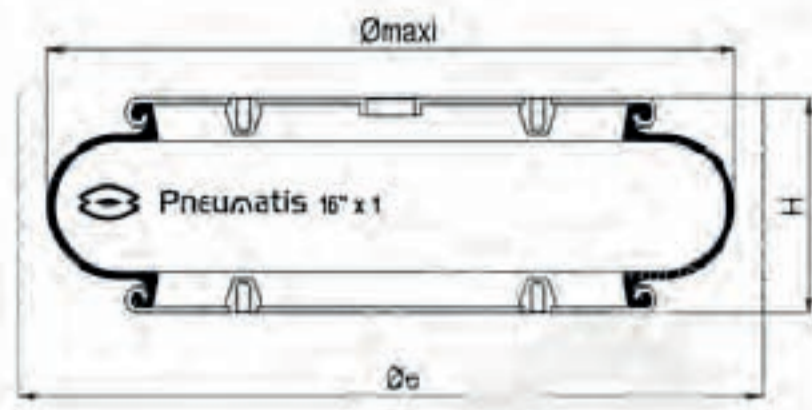


Crimped bellow 16" x 1

DBS161001

INDUSTRY



Technical characteristics

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

Static diameter	350 mm
Maximum diameter	370 mm
Minimum overall diameter (Øe)	400 mm
Minimum height	60 mm
Static height (H)	115 mm
Maximum height	170 mm
Maximum recommended height	150 mm
Total stroke	110 mm
Effective area at static height	462 cm ²
Stiffness at 4 bar	54,06 daN/mm
Natural frequency at 4 bar	2,07 Hz
Weight	5,4 kg

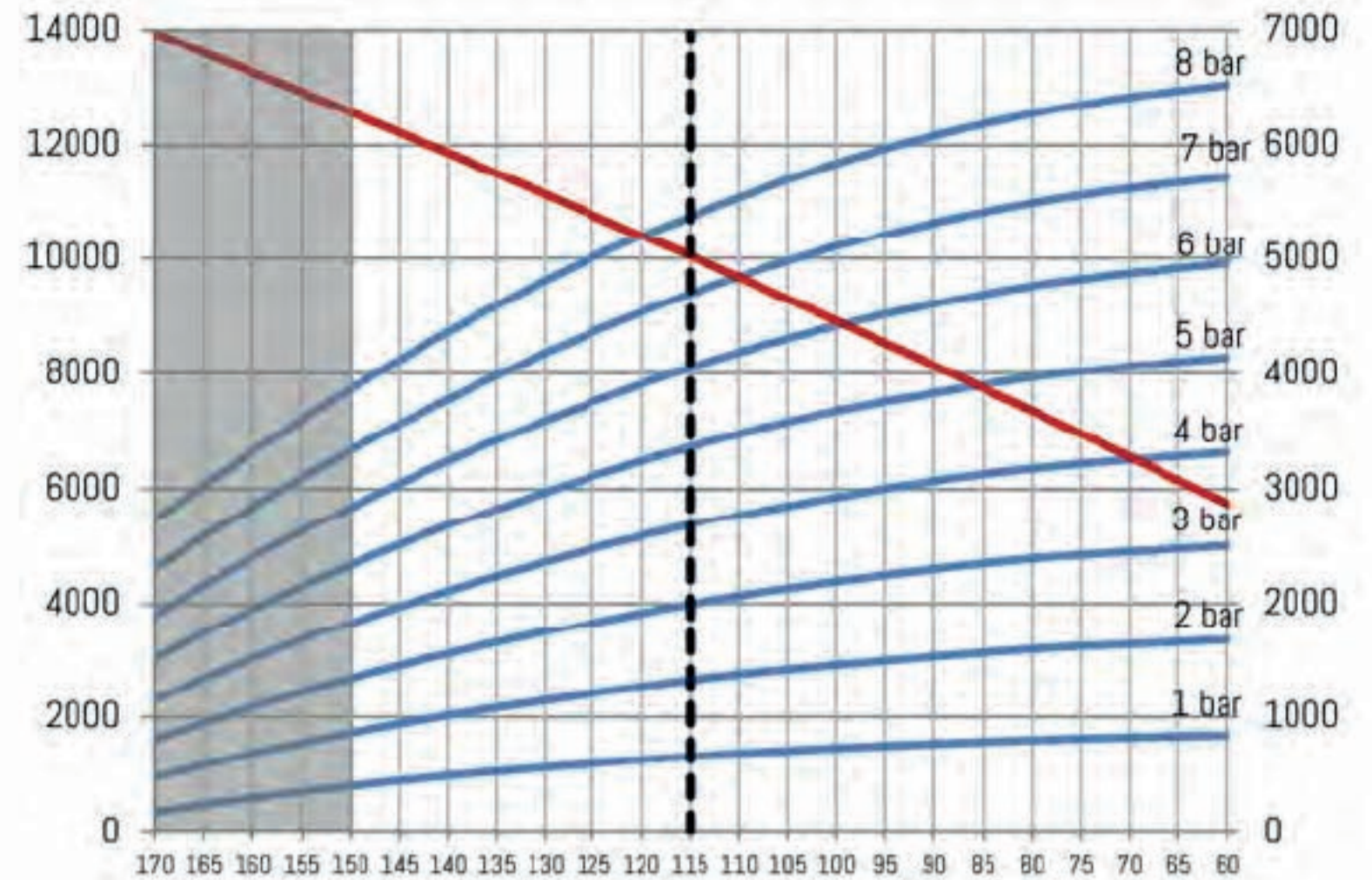
Dynamic characteristics at H = 115mm*

Pressure	2 bar	4 bar	6 bar
Load (daN)	1265	2578	3906
Volume (dm ³)	104	104	104
Stiffness (daN/mm)	28,08	54,06	77,11
Natural frequency (Hz)	2,11	2,07	2,04
Isolation rate at 10Hz %	95,3	95,5	95,7

* 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

DBS161001 Crimped bellow 1 convolute 16" 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
60 mm	1672	2496	3315	4139	4956	5722	6520	5743 cm ³
70 mm	1633	2444	3252	4061	4868	5625	6416	6555 cm ³
80 mm	1591	2384	3176	3967	4758	5496	6271	7354 cm ³
90 mm	1524	2295	3070	3829	4601	5323	6081	8139 cm ³
100 mm	1452	2188	2928	3674	4414	5104	5842	8911 cm ³
110 mm	1370	2067	2771	3475	4181	4840	5542	9670 cm ³
115 mm	1317	1991	2674	3357	4043	4685	5371	10042 cm ³
120 mm	1265	1916	2578	3240	3906	4531	5200	10415 cm ³
130 mm	1143	1743	2355	2971	3591	4177	4806	11147 cm ³
140 mm	1014	1552	2109	2672	3242	3777	4360	11866 cm ³
150 mm	861	1336	1828	2329	2837	3333	3862	12572 cm ³
160 mm	683	1087	1512	1950	2399	2843	3322	13264 cm ³
170 mm	480	808	1148	1511	1901	2302	2729	13943 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 8 daN.