

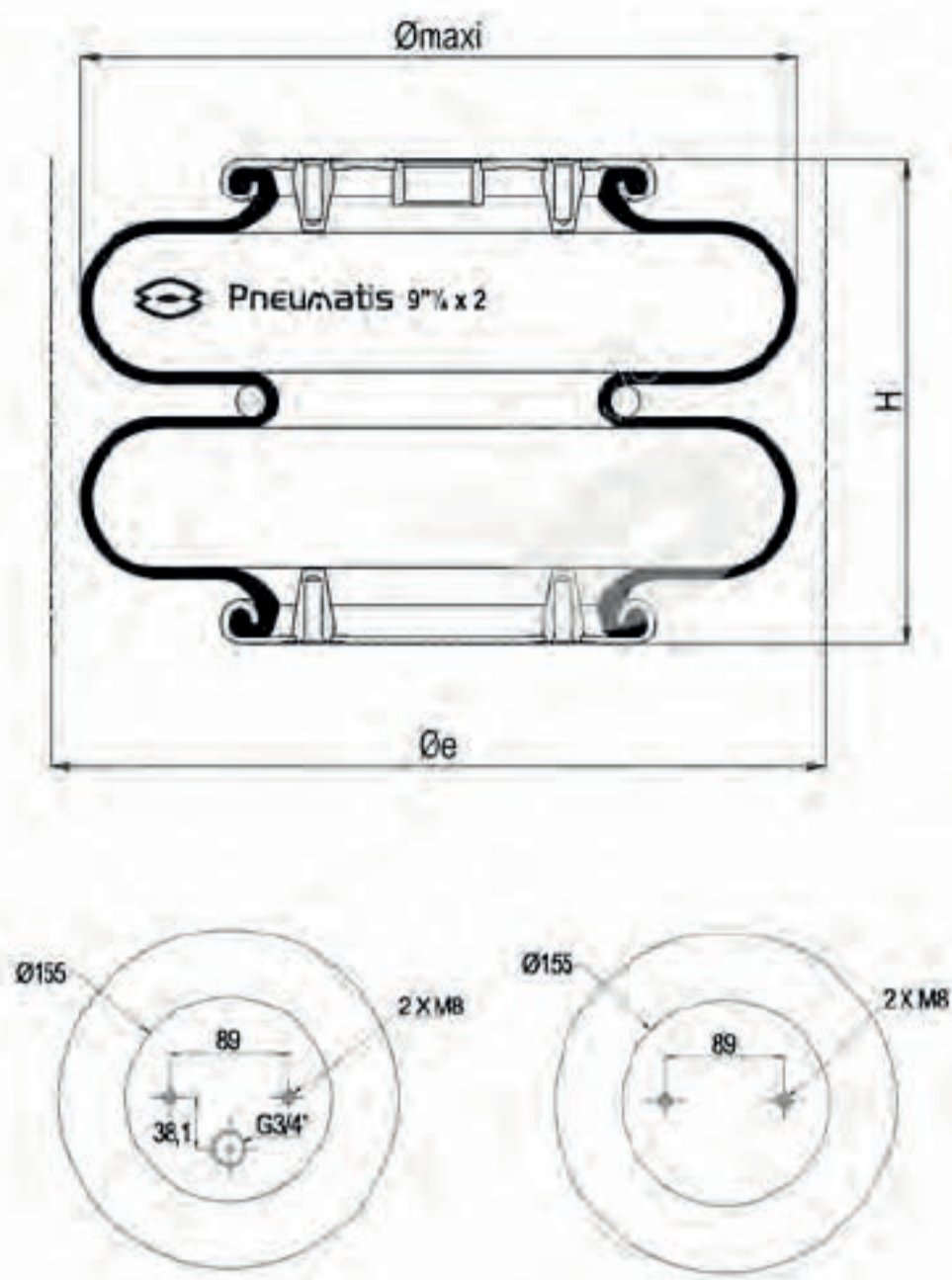
# Crimped bellow 9" 1/4 x 2

DBS092002



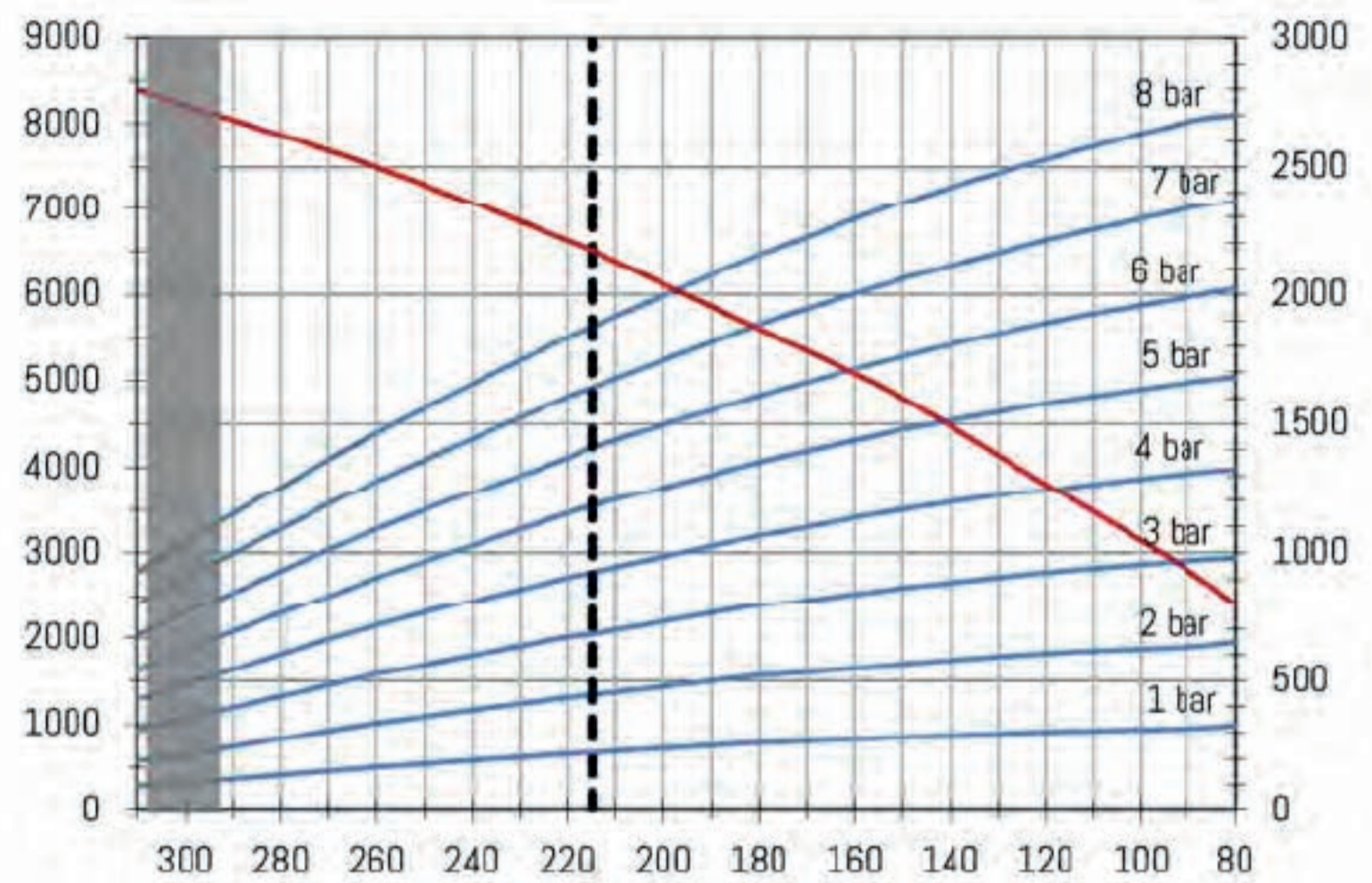
PNEUMATIS

INDUSTRY



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)

## Technical characteristics

Maximum pressure	8 bar
Burst pressure	30 bar
Maximum angular capacity	10°
Maximum out of alignment	10 mm

Static diameter	255 mm
Maximum diameter	255 mm
Minimum overall diameter (Øe)	275 mm
Minimum height	80 mm
Static height (H)	175 mm
Maximum height	310 mm
Maximum recommended height	295 mm
Total stroke	230 mm
Effective area at static height	271 cm <sup>2</sup>
Stiffness at 4 bar	12,61 daN/mm
Natural frequency at 4 bar	1,70 Hz
Weight	3,10 kg

## Dynamic characteristics at H = 215 mm\*

Pressure	2 bar	4 bar	6 bar
Load (daN)	250	670	1340
Volume (dm <sup>3</sup> )	6,08	6,30	6,52
Stiffness (daN/mm)	3,36	7,84	12,06
Natural frequency (Hz)	1,83	1,71	1,65
Isolation rate at 10Hz %	96,5	97,0	97,2

\* Recommended height for better isolation

## References

DBS092002 Crimped bellow 2 convolutes 9"1/4 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 6 bar
80 mm	650	990	1325	1675	2025	2365	2700	2400 cm <sup>3</sup>
90 mm	630	970	1310	1650	1990	2335	2675	2800 cm <sup>3</sup>
120 mm	605	925	1245	1570	1890	2210	2530	3800 cm <sup>3</sup>
150 mm	564	865	1165	1565	1760	2060	2360	4800 cm <sup>3</sup>
175 mm	525	805	1080	1360	1635	1915	2190	5475 cm <sup>3</sup>
180 mm	520	795	1065	1340	1610	1885	2155	5600 cm <sup>3</sup>
215 mm	445	680	925	1150	1380	1615	1845	6507 cm <sup>3</sup>
220 mm	435	670	905	1140	1370	1605	1835	6600 cm <sup>3</sup>
260 mm	335	525	715	905	1090	1280	1465	7500 cm <sup>3</sup>
295 mm	230	375	515	660	805	950	1095	8130 cm <sup>3</sup>
300 mm	215	355	490	630	765	905	1040	8200 cm <sup>3</sup>
310 mm	190	310	425	550	675	800	925	8400 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 17 daN.