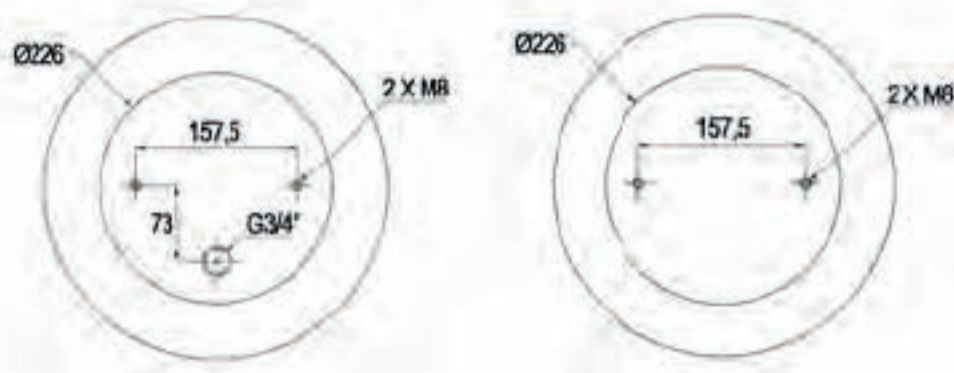
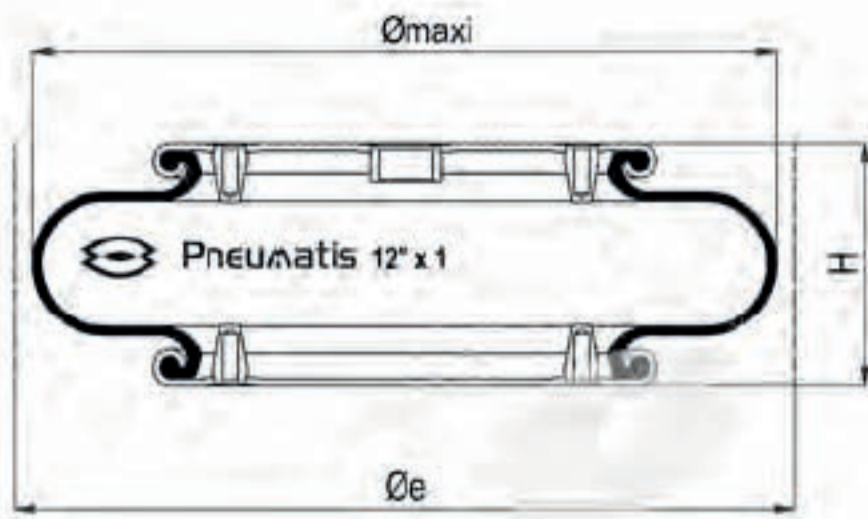


# Crimped bellow 12" x 1 (HT°)

DBS121002/E



INDUSTRY



## Technical characteristics

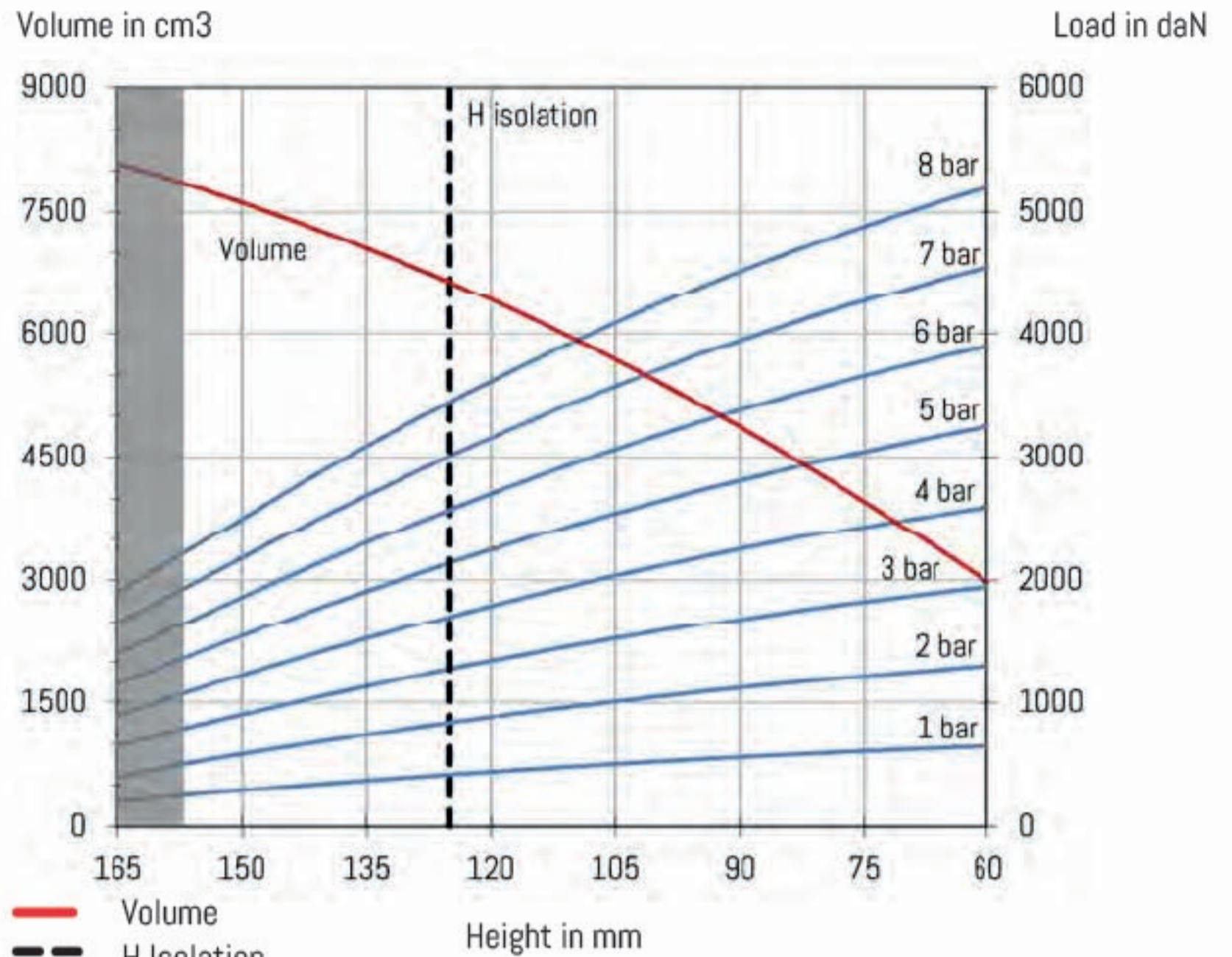
|                          |        |
|--------------------------|--------|
| Maximum pressure         | 8 bar  |
| Burst pressure           | 27 bar |
| Maximum angular capacity | 10°    |
| Maximum out of alignment | 10 mm  |

|                                 |                     |
|---------------------------------|---------------------|
| 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



## Temperatures

|           |                      |                        |
|-----------|----------------------|------------------------|
| Epichlore | -20°C (-30°C static) | +115°C (+120°C static) |
|-----------|----------------------|------------------------|

## References

|             |   |
|-------------|---|
| DBS121002/E | Crimped bellow 1 convolute Epichlore 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.