

Thermoplastic Anti-vibration elements and Compensators for Industrial Ventilation



During the design process of pipeline made of **thermoplastic materials** (PVC, PP and PE) suited for conveyance of **gas from industrial processes**, it is always needed to consider the **high linear expansion** to which the pipe is subjected, providing for the insertion of adequate compensation elements.

Such elements could be natural compensation arms of the pipeline itself and/or **dedicated compensator** made of the same pipe material but with some added flexibility capabilities. Hürner Italia Srl offers, in its specific industrial ventilation line, a wide range of solutions for the compensation of axial expansions.

If the task of the compensator is also to absorb vibration carried from the fan to the inlet and outlet lines, **mono-wave compensators** are also available for diameters up to DE 315mm, whilst the **multi-wave** ones are available without any dimensional limitation. Between these two solution, the multi-wave one presents the advantages of an higher mechanical resistance if the elastic part, which is made in thicknesses of 3 or 6 mm, depending on the

operating conditions. Instead, the mono-wave one, which is made by monolithic injection printing, is best suited for lower stresses and mainly only for vibration control/reduction.

If there were any specific needs to be met in the compensation areas, like maximum displacement limitations at any axes, Hürner Italia Srl is able to offer tailor made solutions for its compensators design. In the here reported image, it could be appreciated in detail a **DN 2000mm PP compensator** executed for a flange, with two compensation zones, directional and stopping guides. All our standard products for vibration control can be found on our website (www.hurner.it), at the VENTILATION section.

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