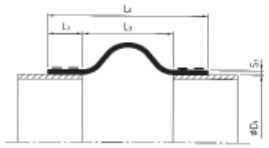
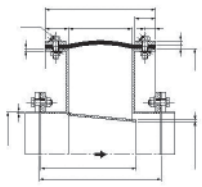
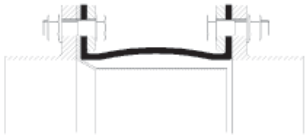
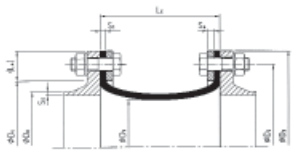
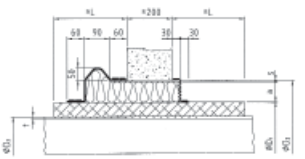
WILLBRANDT Fabric Compensator Type 300-GEW

Type 300 is a highly flexible expansion bellow that is a long-established design element in the areas of power generation (coal, oil and nuclear power plants, gas turbine peak-load power stations), ore dressing (blast furnace and sintering plants), cement industry, air conditioning and materials handling technology (fans and blowers, in pneumatic and vibrating conveyor plant), in shipbuilding, apparatus and motor construction and many other branches of industry. It compensates for heat expansion in all planes and absorbs mechanical and acoustic oscillations or vibrations.

Standard Design

	**1**	The simplest form of a GEW compensator, but **only suitable for round duct and positive pressure.** (In the case of square ducts, the pipe must be drilled. Negative pressure will cause the compensator to contract and reduce the duct sectional area). **Media temperature up to 300°C** **Positive pressure up to 2000 mm WC** Dimension „R“ : 4 times expansion absorption (minimum dimension 40 mm).
	**2**	With this design the majority of expansion problems can be solved efficiently. Square ducting does not need to be spot-drilled, no reduction in pipe cross section at negative pressure, good temperature reduction in the fixing areas with an increase in the „i.W.“ measurement, simple mounting (due to the shape of the fastening) also for subsequent installation. **For round, square or oval ducting at positive and negative pressure.** **Media temperature up to 600°C** **Positive pressure up to 3000 mm WC.** Contact us in case of higher pressures! Dimension „R“ : 4 times expansion absorption (minimum dimension 40 mm).
	**3**	As for design 2, but for very high temperatures with **glass wool** insulation (acid resistant) between compensator and deflector sleeve. **For round, square or oval ducting at positive and negative pressure.** **Media temperature up to 1000°C** **Positive pressure up to 2000 mm WC** Dimension “R” : 4 times expansion absorption (minimum dimension 40 mm).
	**4**	This design is recommended if mounting flanges are to be used (e.g. for a ventilator), at higher pressure or if a reduced overall length is required. **For all ducting cross-sections.** **Media temperature up to 300°C** (for higher temperatures, increase distance between deflector sleeve and compensator) **Positive pressure up to 5000 mm WC** Dimension “E” : 3 times expansion absorption ; ΔI - axial Dimension “E” : 4 times lateral offset (radial displacement), if this is **greater** than the axial expansion absorption (minimum dimension 80 mm).
	**5**	As for design 4, but only for negative pressure. Increased distance between required compensator and deflector sleeve, to avoid fabric abrasion. **Media temperature up to 350°C** (for higher temperatures, increase distance between deflector sleeve and compensator). **Negative pressure up to 4000 mm WC** Dimension “E” : 3 times expansion absorption ; ΔI - axial Dimension “E” : 4 times lateral offset (radial displacement), if this is **greater** than the axial expansion absorption (minimum dimension 80 mm).
	**6**	This design is recommended for wall and ceiling ducting for non-flammable pipes subject to axial, lateral and angular movement. On both sides the compensator has a wall and ceiling ending with diaphragm in silicone rubber without fabric lining and opposite compensator with fabric liner. **Certified acc. to DIN 4102, part 11** **MPA Braunschweig Nr. P-3740/4280-MPA BS**