

WILLBRANDT Rubber Compensator Type 64

Type 64 is a compensator that can be manufactured to specific design dimensions. There are no standard dimensions for this particular type. The overall length is variable and depends on the amount of movement to be compensated.

The compensator is manufactured from prefabricated foils and depending on the material is vulcanized or heated in the final form.

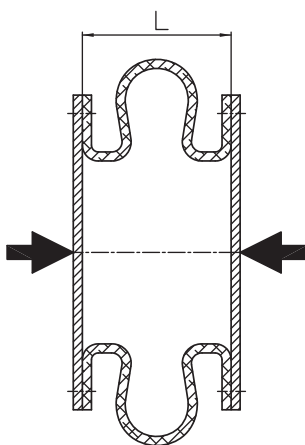
Applications:

The diverse materials used make type 64 suitable for a wide range of applications, e.g. problems when handling hot gases and the associated condensate in scrubbing and flue gas systems.

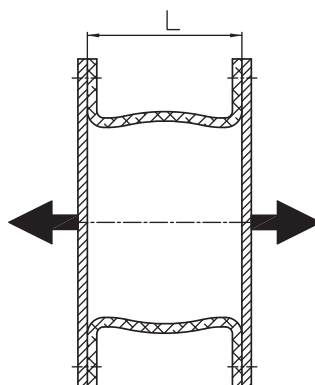
Compared to metal compensators, type 64 in the shortest overall length is capable of absorbing significant axial and lateral expansion and compensate assembly inaccuracies. Noise and vibrations from equipment, e.g. fans, etc., are simultaneously absorbed.



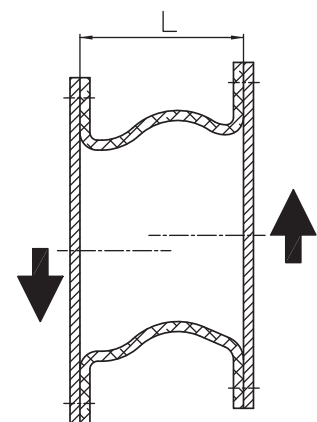
Movement:



axial -
 $\Delta = \sim 0,3 \times L$



axial -
 $\Delta = \sim 0,05 \times L$



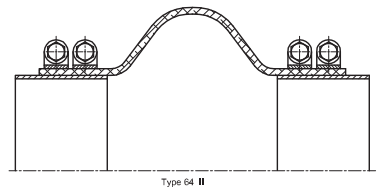
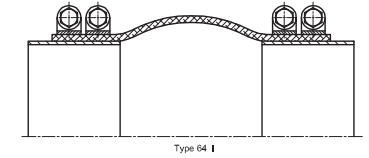
lateral \pm
 $\Delta = \sim 0,1 \times L$

We can improve the movement by corrugation design and choice of material.

Standard designs:

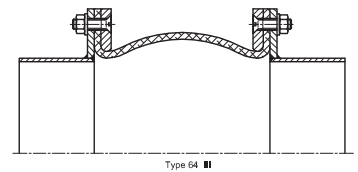
Type 64 is manufactured in two basic designs: Firstly, as a hose-type and a flange-type compensator. Both can be manufactured with flat convex or concave profiles for round and rectangular piping systems in all sizes. The material thickness varies depending on the design between 1mm and 4mm. The connection surfaces in way of the bellow are appropriately reinforced, so that trouble-free connection with clip or flange bolt connection is possible.

It should also be noted, that the compensators with flange design are available pre-shaped up to a diameter of 1200mm; for larger dimensions, these components are supplied flat so that the flanges can be erected during assembly.



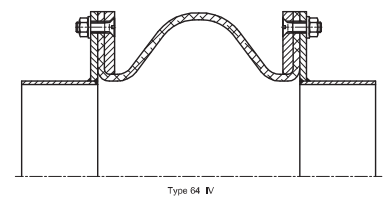
Applications:

Plant construction, power stations, combustion gas desulphurization plants, purification plant, rain water systems, pipe wall penetrations, etc.



Note:

See installation information.
The compensators should not be painted or insulated as this can cause premature failure of the materials!
In case of enquiries, please specify the particular design and respective hole pattern.



Type 64 data

Bellow colour code	Bellow design			Permissible operating data		Hardness shore A
	Core (inner)	Reinforcing material	Cover (outer)	max. bar	max. °C	
red	EPDM	Nylon cord	EPDM	0.5	120	65
grey	CR	Nylon cord	CR	0.5	100	55
none	FKM	Nylon cord	FKM	0.5	200	70
none	PTFE	-	-	0.3	200	-