



TYPE 53L WILLBRANDT RUBBER EXPANSION JOINT

Model 53 L is a low convolution expansion joint, with good sound deadening properties for structure and liquid-borne noise and is characterized by very high expansion capability particularly in the angular plane.

Design

Low convolution bellows with

reinforcing inserts and integral rubber profile (thus sealing without additional gaskets) to suit loose flanges.

The flanges are with through holes.

Flanges (Model A)

The flanges are as standard drilled according to DIN PN10 with through holes.

Flange material: As standard S235 JRG2 (Rst 37-2) zinc plated.

Vacuum

Suitable for vacuum up to 0,8 bar abs. without support ring (2 m suction).
Suitable for vacuum up to 0,8 bar abs. with support ring (10 m suction)
All compensators are available with earthing straps.

DETAILS FOR MODEL 53L

Bellow Colour code	Bellow design			Permissible operating data			Hardness shore A
	Core (inner)	Reinf. material	Cover (outer)	bar °C	bar °C	bar °C	
Red EPDM	EPDM	Nyloncord	EPDM	10 50	10 70	10 90	55
Yellow	NBR	Nyloncord	CR	10 50	10 70	10 90	-

Model 53 red L

Suitable for cold and hot water (up to 90°C). e.g. glycoliferous water, water for domestic use, acids and lye. Not suitable for petroliferous medias.

Model 53 Yellow

Suitable for oil, fat, gasses and petroliferous water.
Not suitable for fuel.

Please note

For aggressive medias please see the resistance tables.
The bellows must not be painted or insulated.

NB	Bellow BL mm	Flange PN 10					Movement absorption			
		ØD mm	ØLK mm	Ød mm	n mm	s mm	AX		LA	∠° +/-
							+	-	+/- mm	
20	130	105	75	14	4	14	30	30	30	35
25	130	115	85	14	4	14	30	30	30	35
32	130	140	100	18	4	14	30	30	30	35
40	130	150	110	18	4	15	30	30	30	35
50	130	165	125	18	4	15	30	30	30	35
65	130	185	145	18	4	15	30	30	30	30
80	130	200	160	18	8	15	30	30	30	30
100	130	220	180	18	8	15	30	30	30	25
125	130	250	210	18	8	15	30	30	30	25
150	130	285	240	22	8	15	30	30	30	20
200	130	340	295	22	8	18	30	30	30	15
250	130	395	360	22	12	18	30	30	30	10
300	130	445	400	22	12	18	30	30	30	10

Permissible % of indicated movement relative to temperature:

up to 50°C: ~ 100%

up to 70°C: ~ 80%

up to 90°C: ~ 70%