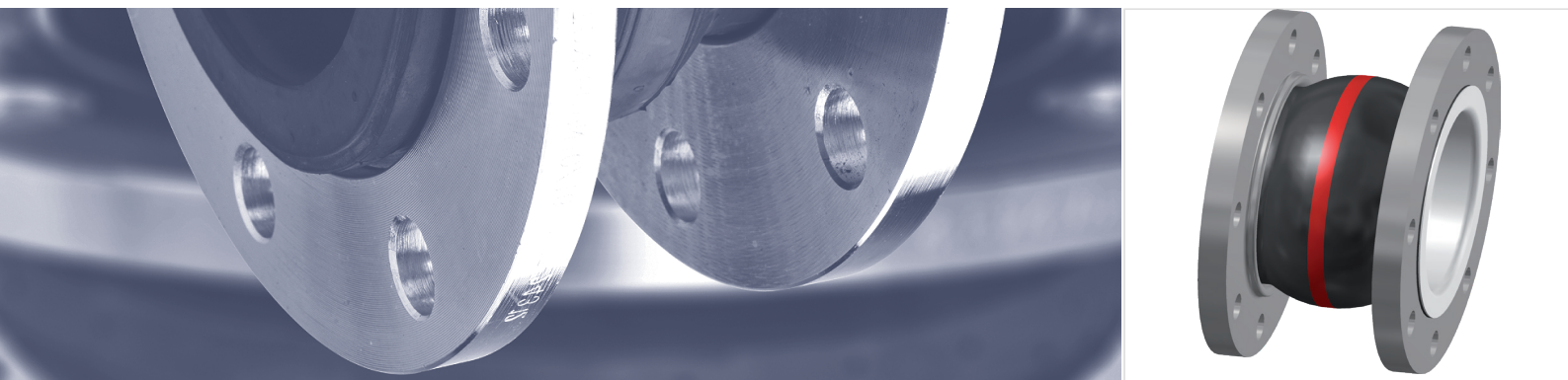




TYPE 50 PTFE WILLBRANDT RUBBER EXPANSION JOINT

Type 50 PTFE is a low-corrugated, PTFE-lined rubber expansion joint. Its low corrugation helps to achieve very low flow resistance. The PTFE lining gives the expansion joint high

chemical resistance or an anti-adhesive property. The PTFE lining can be used for any rubber compound on Type 50. It is however necessary to ensure that the

selected rubber compound achieves the highest possible media resistance, as this is the only way to achieve optimum service life.

DIMENSIONS FOR DESIGN A

DN	BL mm	Bellow		Flange PN 10					Movement absorption				ØC mm	Weight mm
		ØA mm	WF* mm²	ØD mm	ØPCD mm	Ød mm	n	s mm	AX + mm	AX - mm	LA +/- mm	∠° +/-		
25	130	81	1700	115	85	14	4	14	15	15	15	5,0	65	1,9
32	130	81	1700	140	100	14	4	15	15	15	15	15,0	65	3,1
40	130	86	1800	150	110	18	4	15	15	15	15	15,0	74	3,5
50	130	96	3200	165	125	18	4	16	15	15	15	15,0	86	3,8
65	130	111	5300	185	145	18	8	16	15	15	15	15,0	105	5,4
80	130	122	8500	200	160	18	8	18	15	15	15	15,0	118	6,9
100	130	142	12800	220	180	18	8	18	15	15	15	10,0	137	8,0
125	130	168	18700	250	210	18	8	18	15	15	15	10,0	166	9,7
150	130	192	25900	285	240	22	8	20	15	15	15	10,0	192	13,1
200	130	252	41000	340	295	22	8	20	15	15	15	6,0	252	16,4
250	130	302	59600	395	350	22	12	20	15	15	15	6,0	304	21,7
300	130	354	82200	445	400	22	12	20	15	15	15	6,0	354	24,8
350	200	420	117600	505	460	22	16	24	15	15	15	4,0	412	38,8
400	200	480	154700	565	515	26	16	25	15	15	15	4,0	470	38,6
450	200	530	204200	615	565	26	20	28	15	15	15	4,0	520	49,3
500	200	580	227900	670	620	26	20	30	15	15	15	4,0	570	57,2

DN	BL	Bellow		Flange PN 10					Movement absorption				ØC	Weight
									AX		LA			
	mm	ØA mm	WF* mm²	ØD mm	ØPCD mm	Ød mm	n mm	s mm	+ mm	- mm	+/- mm	∠° +/-	mm	mm
600	200	680	311500	780	725	30	20	30	15	15	15	4,0	675	76,2
700	250	800	434200	825	840	30	24	35	15	15	15	4,0	780	129,2
800	250	880	434200	1015	950	33	24	40	15	15	15	3,0	887	162,3
900	300	1038	737900	1115	1050	33	28	40	15	15	15	2,5	985	228,7
1000	300	1138	889400	1230	1160	36	28	40	15	15	15	2,5	1085	236,5

Permissible degree of utilisation for movement areas:

up to 50°C - Utilisation ~ 100 %

up to 70°C - Utilisation ~ 75 %

up to 90°C - Utilisation ~ 60 %

*WF = effective area

Pressure resistance

- max. 6 bar operating pressure with polyamide cord reinforcement
- max. 9 bar operating pressure with aramid or steel cord reinforcement

Conformity

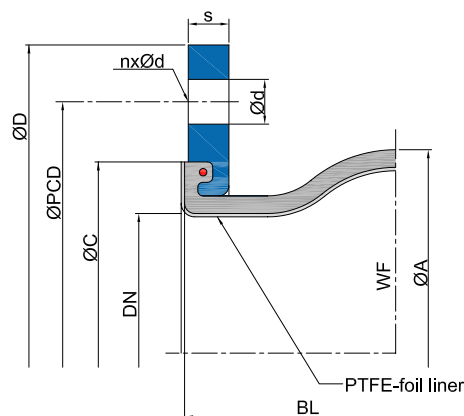
FDA and EG 1935/2004

Vacuum resistance

Only limited suitable for vacuum operation. A PTFE vacuum supporting ring, which allows full vacuum for small

nominal diameters, can be used from DN 50.

The PTFE supporting ring can only be used up to 50° C. DN 25, DN 32, DN 40 and DN 350 expansion joints are not suitable for vacuum operations.



Important information

For aggressive media, please see the resistance table (can be requested

separately). The bellows should not be painted or insulated. Please refer to the installation instructions.

We will be happy to send you further information on the individual types and designs.