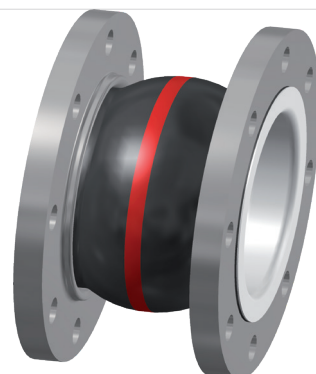




TYPE 39 PTFE WILLBRANDT CHEMICAL EXPANSION JOINT

Type 39 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 39. 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.

DN	Length BL mm	Bellow		Flange PN 10					Movement absorption				ØC mm
		ØA mm	WF* mm ²	ØD mm	ØPCD mm	Ød mm	n mm	s mm	AX + mm	AX - mm	LA +/- mm	∠° +/-	
50	130-150	96	3200	125	125,0	18,0	4	16	15	15	15	15,0	96
65	130-150	110	5300	145	145,0	18,0	8	16	15	15	15	15,0	110
80	130-150	122	8500	160	160,0	18,0	8	18	15	15	15	15,0	122
100	130-150	142	12800	180	180,0	18,0	8	18	15	15	15	10,0	142
125	130-150	170	18700	210	210,0	18,0	8	18	15	15	15	10,0	170
150	130-150	196	25900	240	240,0	23,0	8	20	15	15	15	10,0	196
200	130-160	256	40900	295	295,0	23,0	8	20	15	15	15	6,0	256
250	130-200	306	59900	350	350,0	23,0	12	20	15	15	15	6,0	306
300	130-200	352	82200	400	400,0	23,0	12	20	15	15	15	6,0	352
350	130-500	442	108000	460	460,0	22,0	16	20	15	15	15	4,0	442
400	150-500	495	137900	515	515,0	26,0	16	25	15	15	15	4,0	495
450	150-500	545	180100	565	565,0	26,0	20	25	15	15	15	4,0	545
500	150-500	595	203800	620	620,0	26,0	20	30	15	15	15	4,0	595
600	150-500	695	328600	725	725,0	30,0	20	30	15	15	15	4,0	695
700	150-500	832	418300	840	840,0	30,0	24	35	15	15	15	2,5	830
*1750	150-500	882	475100	927	914,4	34,4	28	35	15	15	15	2,5	882
800	150-500	932	540700	950	950,0	33,0	24	40	15	15	15	2,0	932
900	150-500	1032	670600	1050	1050,0	33,0	28	40	15	15	15	2,0	1032
1000	150-500	1134	823100	1160	1160,0	36,0	28	40	15	15	15	2,0	1134

*WF - effective area

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 %

Pressure resistance

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

Conformity

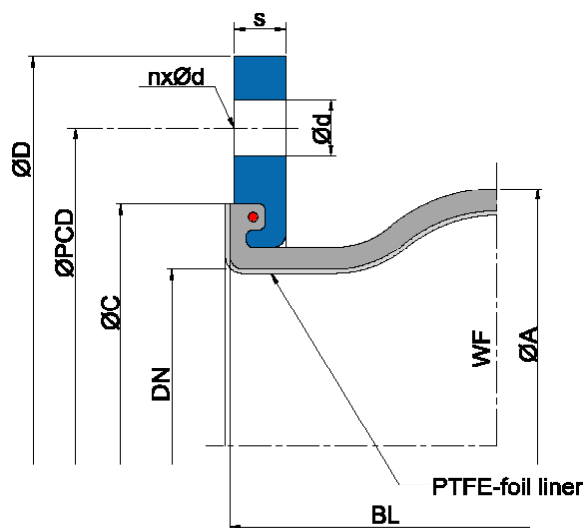
FDA and EG 1935/2004

Vacuum resistance

Only limited suitability 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 350 expansion joints are not suitable for vacuum operation.



Important information

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

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

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

TOLERANCES

DN	Internal dimension	External flange dimension	Pitch circle diameter	Hole diameter	Overall length				Flange thickness			Flange hole alignment	
≤ 500	±5	±6	±5	±2	≤ 150 ± 5	≤ 300 ± 5	≤ 600 ± 5	> 600 ± 1,0%	≤ 10 ± 2	≤ 15 ± 3	>15 ± 4	LF ≤350 ± 3	LF ≤350 ± 5
> 550 - ≤ 1150	± 10	± 13	± 5	± 2	± 5	± 5	± 5	± 1,0%	± 2	± 3	± 4	± 3	± 5
> 1150 - ≤ 1750	± 10/-12	± 19/-13	± 6	± 2	± 6	± 10	± 10	± 1,5%	± 2	± 4	± 4	± 4	± 6
> 1750	± 10/-16	± 25/-14	± 6	± 2	± 6	± 10	± 10	± 1,5%	± 2	± 4	± 4	± 4	± 6