

Rubber Expansion Joint Type W51-CHEM

Type W51-CHEM is a special type similar to the W50 series and is manufactured by a special process.

Suitable for chemical plants, particularly for higher thermal duty up to 150 °C, and with a wide range of chemical resistance.

The highest permissible duty depends on temperature, pressure, movement and life expectancy.

For flue gas desulphurisation systems and bio-diesel. Good resistance to benzene, xylene, toluene, fuels with an aromatic content of more than 50 %, aromatic/chlorinated hydrocarbons and mineral acids. Not suitable for water or steam.



Bellows colour code	Bellows design			Permissible working data		
	Core (inner)	Reinf. material	Cover (outer)	bar °C	bar °C	bar °C
purple	FPM	Aramid	ECO	25 50	16 100	4 150

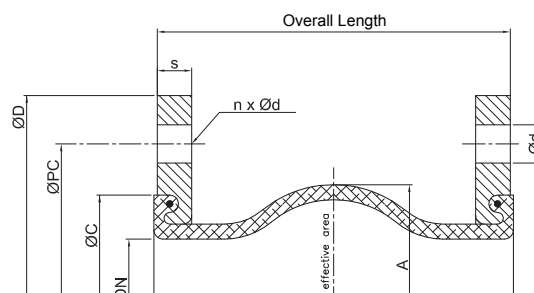
Burst pressure > 50 bar

DN 20 - DN 50 suitable for vacuum without internal supporting ring.

Suitable for vacuum up to 0.8 BarA, without supporting ring (2 m suction).

Suitable for vacuum up to 0 BarA, with supporting ring (10 m suction).

Short term : Rated upto 160 °C.



DN	Overall length mm	Bellows		Flange PN 10					Movement absorption				ØC mm
		ØA mm	Eff. area cm²	ØD mm	ØPC mm	Ød mm	n	S mm	axial + mm	axial - mm	lat. +/- mm	∠ ° +/-	
32	130	81	27	140	100	18	4	15	10	20	15	20	78
40	130	86	27	150	110	18	4	15	10	20	15	20	78
50	130	96	32	165	125	18	4	16	10	20	15	20	89
65	130	110	53	185	145	18	4	16	10	20	15	20	104
80	130	122	85	200	160	18	8	18	15	20	15	20	119
100	130	142	128	220	180	18	8	16	15	20	15	20	142
125	130	170	187	250	210	18	8	18	15	20	15	20	169
150	130	196	259	285	240	23	8	18	15	20	15	20	195
200	130	256	409	340	295	23	8	20	15	20	15	15	245
250	130	306	599	395	350	23	12	20	15	20	15	10	295
300	130	356	822	445	400	23	12	22	15	20	15	10	348
350	200	442	1176	505	460	22	16	24	15	20	15	10	398
400	200	495	1547	565	515	26	16	25	20	25	20	8	450
450	250	545	2279	615	565	26	20	25	20	25	20	6	512
500	250	595	2279	670	620	26	20	30	20	25	20	6	563
600	250	695	3115	780	725	30	20	30	20	25	20	6	673

Permissible degree of movement at temperature:

- up to 50 °C: Utilisation ~ 100 %

- up to 70 °C: Utilisation ~ 75 %

- up to 90 °C: Utilisation ~ 60 %