

BALANCE IX TWIN: DN80-1600

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The Balance IX Twin is a relatively long stainless steel expansion joint with twin bellows construction and rotating flanges. It is used to accommodate axial movements and relatively large lateral misalignments in piping systems. Due to its double-ply bellows, this compensator is more flexible in comparison to similar single-ply compensators. The Balance IX Twin is supplied at pre-stressed length to reduce the reaction forces to the foundation in operating conditions (high temperature). The maximum operating temperature of the Balance IX is +550 °C, the maximum working pressure 2,5 bar (120 °C).

APPROVALS

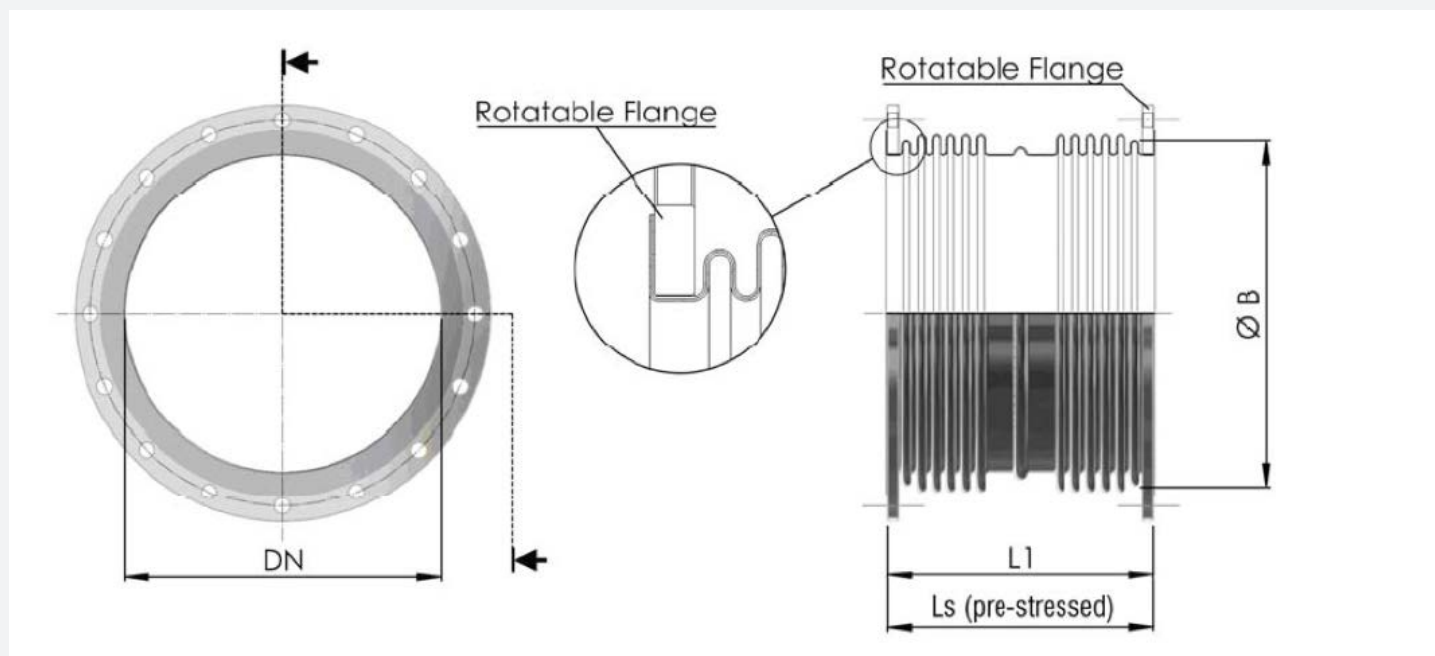
Type approval available on request.

CHARACTERISTICS

- Stainless steel expansion joint AISI 321
- With rotating flanges acc. DIN 86044 (<DN200 - PN10)
- Twin bellows construction
- Double-ply bellows material
- Standard length
- Max. temperature: 550 °C
- Max. pressure: 2,5 bar (120 °C)
- Alternative flange dimensions available
- Stock item
- Supplied at pre-stressed length



TECHNICAL DRAWING



Note:

1. Other stainless steel grades and diameters available on request
2. Axial and lateral movements are not to be used in combination

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DN	ARTICLE NO.	L1	LS	BELLOWS (AISI 321) (MM)			MOVEMENTS² (MM)		SPRINGRATE (N/MM)		FLANGE (CARBON STEEL) (MM)		
				B	THICK- NESS	PLIES	AXIAL	LATERAL	AXIAL +/-	LATERAL +/-	D OUTSIDE	BOLT CIRCLE	HOLES X d
80	300 270 080		365	100	0,3	2	+ 13 / - 63	+/- 63	26	2	200	160	8 X 18
	300 270 081	340					+/- 38						
100	300 270 100		315	141	0,3	2	+ 11 / - 61	+/- 42	22	5	220	180	8 X 18
	300 270 101	290					+/- 36						
125	300 270 125		305	168	0,3	2	+ 12 / - 52	+/- 30	28	10	250	210	8 X 18
	300 270 126	285					+/- 32						
150	300 270 150		370	196	0,3	2	+ 15 / - 75	+/- 46	25	9	285	240	8 X 22
	300 270 151	340					+/- 45						
175	300 270 175		375	224	0,3	2	+ 14 / - 74	+/- 40	26	12	315	270	8 X 22
	300 270 176	345					+/- 44						
200	300 270 200		365	244	0,4	2	+ 19 / - 79	+/- 40	40	22	320	280	8 X 18
	300 270 201	335					+/- 49						
250	300 270 250		365	299	0,4	2	+ 17 / - 77	+/- 30	28	25	375	335	12 X 18
	300 270 251	335					+/- 47						
300	300 270 300		345	353	0,4	2	+ 15 / - 85	+/- 26	30	46	440	395	12 X 22
	300 270 301	310					+/- 50						
350	300 270 350		345	400	0,4	2	+ 15 / - 85	+/- 24	29	54	490	445	12 X 22
	300 270 351	310					+/- 50						
400	300 270 400		425	450	0,5	2	+ 23 / - 123	+/- 35	33	53	540	495	16 X 22
	300 270 401	375					+/- 73						
450	300 270 450		430	500	0,5	2	+ 21 / - 121	+/- 30	43	82	595	550	16 X 22
	300 270 451	380					+/- 71						
500	300 270 500		390	550	0,5	2	+ 22 / - 102	+/- 24	47	125	645	600	20 X 22
	300 270 501	350					+/- 62						
550	300 270 550		400	600	0,5	2	+ 22 / - 102	+/- 22	51	169	703	650	20 X 22
	300 270 551	360					+/- 62						
600	300 270 600		490	650	0,5	2	+ 22 / - 122	+/- 31	42	108	754	700	20 X 22
	300 270 601	440					+/- 72						
700	300 270 700		520	750	0,5	2	+ 24 / - 134	+/- 31	53	151	856	800	24 X 22
	300 270 701	465					+/- 79						
800	300 270 800		520	850	0,5	2	+ 24 / - 134	+/- 27	41	153	958	900	24 X 22
	300 270 801	465					+/- 79						
900	300 270 900		520	950	0,5	2	+ 24 / - 134	+/- 25	46	210	1060	1010	28 X 22
	300 270 901	465					+/- 79						
1000	300 271 000		520	1050	0,5	2	+ 24 / - 134	+/- 21	58	309	1162	1110	32 X 22
	300 271 001	465					+/- 79						
1100	300 271 100		520	1150	0,6	2	+ 24 / - 134	+/- 19	70	451	1266	1210	32 X 22
	300 271 101	465					+/- 79						
1200	300 271 200		520	1250	0,6	2	+ 24 / - 134	+/- 17	75	571	1366	1310	36 X 22
	300 271 201	465					+/- 79						
1300	300 271 300		520	1350	0,8	2	+ 24 / - 134	+/- 12	140	1069	1466	1410	40 X 22
	300 271 301	465					+/- 79						
1400	300 271 400		520	1450	0,8	2	+ 24 / - 134	+/- 11	151	1320	1566	1510	40 X 22
	300 271 401	465					+/- 79						
1500	300 271 500		520	1550	0,8	2	+ 24 / - 134	+/- 10	161	1607	1666	1610	44 X 22
	300 271 501	465					+/- 79						
1600	300 271 600		520	1650	0,8	2	+ 24 / - 134	+/- 10	171	1932	1766	1710	48 X 22
	300 271 601	465					+/- 79						