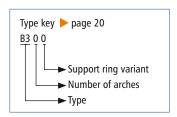


B300

NB 50 - NB 1600



► Type B300



Conical universal expansion joint

Design: Conical-concentric rubber bellows with a sleeve for

clamped fixing

Nominal diameters: Standard NB 80 to NB 1600, intermediate sizes or other

nominal diameter combinations possible

Installation length: = Installation gap + 2x fixing width

Standard installation gap $L_0 = 75$ to 2,100 mm

(page 162)

Other installation gaps on request

Fixing width: Depends on pressure, nominal diameter and clamp de-

sign, at least 40 mm

Pressure: Depending on the nominal diameter and installation

length up to 1 bar

Movement: For slight axial compression and lateral movements

(page 162)

For axial extension or vacuums, the expansion joint can be drawn from the pipeline (groove as needed at the

pipeline end)

Application:

Power plants, plant construction, food processing, wastewater treatment plants, industrial facilities, e.g. to disconnect pipelines, on oscillating conveyor systems, on sieving machines











Rubber bellows

Rubber grades:			Carrier:		
up to 100°C:	EPDM	Cooling water, hot water, seawater, acids, dilute chlorine compounds	Nylon fabric Polyester fabric Kevlar fabric Glass fibre fabric Steel mesh		
	EPDM, drinking water approved	Drinking water			
	EPDM, white, food grade	Foodstuffs			
	EPDM, abrasion-resistant	Abrasive materials, Water-sand extraction			
	EPDM, insulating	Electrical systems construction			
	IIR	Hot water, acids, bases, gases			
	CSM	Strong acids, bases, chemicals			
	NBR	Oils, petrol, solvents, compressed air			
	NBR, bright, food grade	Oil, fatty foods			
up to 80 °C:	CR	Cooling water, slightly oily water, seawater			
up to 70°C:	NR	Abrasive materials			
up to 150°C:	HNBR	Oils, petrol, solvents, compressed air			
up to 180°C:	FPM	Corrosive chemicals, petroleum distillates			
up to 200°C:	Silicon (Q)	Air, saltwater atmosphere			
	Silicon (Q), white, food grade	Foodstuffs, medical technology			
PTFE lining:	Permanently embedded against chemical attacks on the interior at the rubber bellows, take the restriction of the listed movement into account (▶ page 162)				

Fastening clamps

Design: Depending on pressure and nominal diameters, endless clamp belt, screw thread belt, small clamps or

hinge bolt clamps. At higher pressures, 2 adjacent clamps per fastening side

3/4" Width: Endless clamp belt:

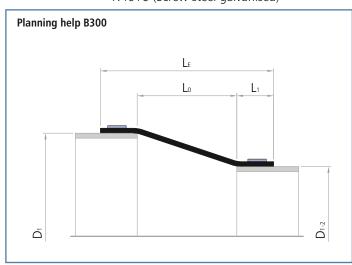
1/2" Screw thread belt:

Small clamp: depending on Ø: 9–12 mm Hinge bolt clamp: depending on Ø: 18-30 mm

Materials: Endless clamp belt with screw lugs (tongs): 1.7300

> Screw thread belt with threaded screw lugs: 1.4310

Small clamp, belt and housing: 1.4016 (Screw steel galvanised) Hinge bolt clamp, belt and housing: 1.4016 (Screw steel galvanised)







Potent	tial combir	nation		Movement	
NB	NB	Gan	14	₹ 3	₩
D ₁	D ₁₋₂	Gap	747	F-7	\sim
100	80	≥ mm 60	mm 1	mm 0	±mm 2
	80	135	2	0	4
125	100	75	1	0	2
150	80	210	3	0	6
	100	150	2	0	4
200	125 80	75 360	6	0	2 10
	100	300	5	0	8
	125	225	4	0	6
	150	150	2	0	4
	80 100	510 450	8 7	0	13 11
250	125	375	6	0	9
	150	300	5	0	8
	200	150	3	0	4
	80 100	660 600	11 10	0	16 14
300	125	525	9	0	13
300	150	450	8	0	11
	200	300	5	0	7 4
	250 80	150 810	14	0	19
	100	750	13	0	17
	125	675	12	0	16
350	150	600	10	0	14
	200 250	450 300	8 5	0	10 7
	300	150	3	0	3
	100	900	16	0	20
	125 150	825 750	15 13	0	18 17
400	200	600	11	0	17
	250	450	8	0	10
	300	300	6	0	7
	350	150 1050	3	0	3
	150 200	900	19 17	0	22 19
	250	750	14	0	16
500	300	600	12	0	13
	350	450	9	0	10
	400 450	300 150	6 3	0	6 3
	200	1200	23	0	24
	250	1050	21	0	21
600	300 350	900 750	18 15	0	18 15
600	400	600	12	0	12
	450	450	9	0	9
	500	300	6	0	6
	250 300	1350 1200	27 25	0	26 23
	350	1050	22	0	20
700	400	900	19	0	17
	450	750	16	0	15
	500 600	600 300	13 7	0	12 6
	300	1500	32	0	28
	350	1350	29	0	25
	400	1200	26	0	23
800	450 500	1050 900	23 20	0	20 17
	600	600	13	0	11
	700	300	7	0	6

Potent	tial combir	nation		Movement	
NB	NB	Gap	- M-		E.A
D ₁	D ₁₋₂	≥ mm	mm	mm	±mm
900	350	1650	36	0	30
	400	1500	33	0	27
	450	1350	30	0	25
	500	1200	27	0	22
	600	900	21	0	16
	700 800	600 300	14 7	0	11 5
	400	1800	40	0	32
	450	1650	37	0	29
	500	1500	34	0	27
1000	600	1200	28	0	21
	700 800	900 600	21 14	0	16 11
	900	300	7	0	5
	450	1950	45	0	34
	500	1800	42	0	31
	600	1500	36	0	26
1100	700 800	1200	29	0	21
	900	900 600	22 15	0	16 10
	1000	300	8	0	5
	500	2100	50	0	36
	600	1800	43	0	31
	700	1500	37	0	25
1200	800	1200	30	0	20
	900 1000	900 600	23 15	0	15 10
	1100	300	8	0	5
	600	2100	52	0	35
	700	1800	45	0	30
	800	1500	38	0	25
1300	900 1000	1200 900	31 23	0	20 15
	1100	600	16	0	10
	1200	300	8	0	5
	700	2100	53	0	34
	800	1800	46	0	29
1400	900	1500	39	0	25
1400	1000 1100	1200 900	32 24	0	20 15
	1200	600	16	0	10
	1300	300	8	0	5
	800	2100	55	0	34
	900	1800	47	0	29
1500	1000 1100	1500 1200	40 32	0	24 19
1500	1200	900	25	0	14
	1300	600	17	0	10
	1400	300	8	0	5
	900	2100	56	0	33
1600	1000	1800	49	0	28
	1100 1200	1500 1200	41 33	0	24 19
	1300	900	25	0	14
	1400	600	17	0	9
	1500	300	9	0	5

The specified movements may vary depending on the design pressure. Reduction of movement for expansion joints with PTFE lining: -50 %.

Individual fabrication possible



Universal expansion joint, type B310 as a drum connection
NB 900 / NB 650, 0.1 bar