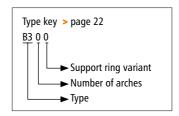
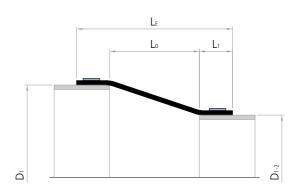
B300 Ø 50 - 5,000 mm



> Type B300



Cross section B300



Concentric or eccentric reducing expansion joint

Design: Streamlined, concentric or eccentric reducer slip-on sleeve type rubber

bellows, designed to compensate all directional movements, have a cycle life in the tens of millions, constructed with a high-grade leak-proof tube, multiple layers of high-strength cord, a seamless cover, and fixing clamps. In compliance with PED 2014/68/EU, FSA Technical Handbook and ASTM

F1123 - 87. Available in split-wrap or custom offset arrangements.

Diameters: \varnothing 50 to 5,000 mm, custom diameters and combinations possible

Length: = Installation gap + 2x fixing width

 $L_0 = 75$ to 2,100 mm (standard installation gaps) (> page 196)

Custom length on request

Fixing width: At least 40 mm

Depends on pressure, diameter and clamp type

Pressure: Up to 1 bar depending on diameter and length

Vacuum stability on request

Movement: For low axial compression and lateral movements

For vacuums, the expansion joint can slip of the pipeline (groove as

needed at the pipeline end)

→ ‡ (> page 196)

Application:

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





Request assembly instructions at: www.ditec-adam.de/en/contact



Bellows elastomers and reinforcements

Elastomer	Fabric	Marking	°C	Application
EPDM	Polyamid		-40 +100	Cooling water, hot water, seawater, acids, dilute chlorine compounds
EPDM	Aramid		-40 +100	Cooling water, hot water, seawater, acids, dilute chlorine compounds
EPDMht	Aramid		-40 +120	Cooling water, hot water, seawater, acids, dilute chlorine compounds
EPDMwras	Polyamid		-40 +100	Drinking water, foodstuffs
EPDMwras	Aramid		-40 +100	Drinking water, foodstuffs
EPDMbeige	Polyamid		-40 +100	Foodstuffs
EPDMbeige	Aramid		-40 +100	Foodstuffs
IIR	Polyamid		-20 +100	Hot water, acids, bases, gases
IIR	Aramid		-20 +100	Hot water, acids, bases, gases
CSM	Polyamid		-20 +100	Strong acids, bases, chemicals
CSM	Aramid		-20 +100	Strong acids, bases, chemicals
NBR	Polyamid		-30 +100	Oils, petrol, solvents, compressed air
NBR	Aramid		-30 +100	Oils, petrol, solvents, compressed air
NBRbeige	Polyamid		-30 +100	Oil, fatty foods
NBRbeige	Aramid		-30 +100	Oil, fatty foods
CR	Polyamid		-20 +90	Cooling water, slightly oily water, seawater
CR	Aramid		-20 +90	Cooling water, slightly oily water, seawater
FPM	Aramid		-20 +180	Corrosive chemicals, petroleum distillates
FPMbeige	Aramid		-20 +180	Oil, fatty foods
NR	Polyamid		-20 +70	Abrasive materials
Silicon	Aramid Glass		-60 +200	Air, saltwater atmosphere, foodstuffs, medical technology

Clamps

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

hinge bolt clamps. At higher pressures, 2 parallel clamps per side

Width: Endless clamp belt: 3/4"

Screw thread belt: 1/2"

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)

Poten	tial combir	nation	Movement			
Ø	Ø	Gap	-M-	*	₹.H	
D ₁	D ₁₋₂	-	M	\sim	M	
mm 100	80	mm 60	mm 1	mm 0	±mm 2	
	80	135	2	0	4	
125	100	75	1	0	2	
	80	210	3	0	6	
150	100	150	2	0	4	
	125 80	75 360	6	0	2 10	
	100	300	5	0	8	
200	125	225	4	0	6	
	150	150	2	0	4	
	80	510	8	0	13	
250	100 125	450 375	7 6	0	11 9	
230	150	300	5	0	8	
	200	150	3	0	4	
	80	660	11	0	16	
	100	600	10	0	14	
300	125 150	525 450	9	0	13 11	
	200	300	8 5	0	7	
	250	150	3	0	4	
	80	810	14	0	19	
	100	750	13	0	17	
250	125	675	12	0	16	
350	150 200	600 450	10 8	0	14 10	
	250	300	5	0	7	
	300	150	3	0	3	
	100	900	16	0	20	
	125	825	15	0	18	
400	150 200	750 600	13 11	0	17 13	
400	250	450	8	0	10	
	300	300	6	0	7	
	350	150	3	0	3	
	150	1050	19	0	22	
	200 250	900 750	17 14	0	19 16	
500	300	600	12	0	13	
	350	450	9	0	10	
	400	300	6	0	6	
	450	150	3	0	3	
	200 250	1200 1050	23 21	0	24 21	
	300	900	18	0	18	
600	350	750	15	0	15	
	400	600	12	0	12	
	450 500	450 300	9	0	9 6	
	250	1350	27	0	26	
	300	1200	25	0	23	
700	350	1050	22	0	20	
	400	900	19	0	17	
	450 500	750 600	16 13	0	15 12	
	600	300	7	0	6	
	300	1500	32	0	28	
800	350	1350	29	0	25	
	400	1200	26	0	23	
	450	1050	23	0	20 17	
	500 600	900 600	20 13	0	17 11	
	700	300	7	0	6	

Potential combination	Poton	tial combin	nation		Movement	
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The specified movements may vary depending on the design pressure.

Customised products available





Concentric reducing expansion joint with zipper for maintenance service



Flexible silicone rubber reducer for large axial and lateral displacements