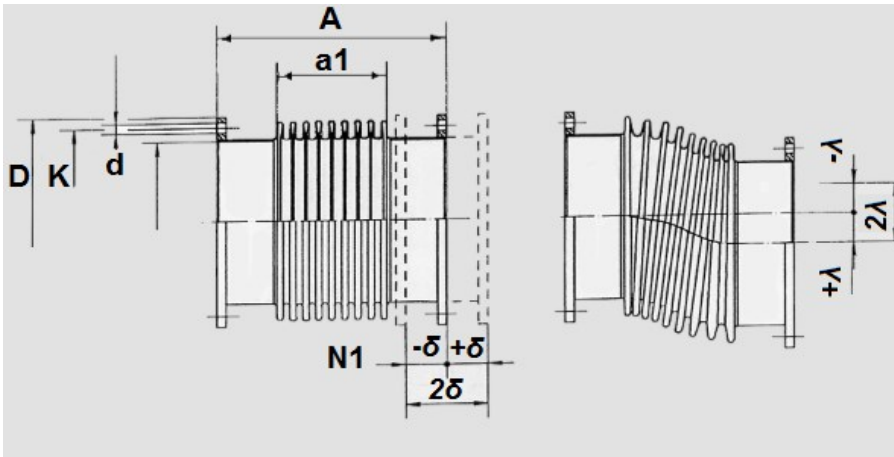


Vibracoustics Ltd Stainless Steel Bellows are supplied with flanges or pipe-ends. Standard units used as part of a complete exhaust suspension system are normally offered without inner sleeves, although these are available when specified.



Bellows With Flanges



Maximum Working Pressure:
1 bar (100 kPa)

Maximum Temperature:
450 deg. C.

Material:
Bellows S.S. AISI 321
Carbon or S.Steel Flanges
Drilled PN6, PN10 etc.

d Nominal Bore		A	a1	PN10 Flange Dimensions			N1	Axial Stiffness	Lateral Stiffness	δ max	λ max
				K	D	N x dia.					
Inches	(mm)						-	(kN/m)		(mm)	
1.5	40	180	74	110	150	4 x 18	15	25	20	12	12
2	50	195	98	125	165	4 x 18	14	20	15	20	18
2.5	65	210	115	145	185	4 x 18	14	30	30	20	18
3	80	250	134	160	200	8 x 18	15	35	30	20	23
4	100	290	164	180	220	8 x 18	16	35	35	32	28
5	125	305	164	210	250	8 x 18	16	45	60	32	22
6	150	305	165	240	285	8 x 22	13	60	115	32	20
8	200	310	166	295	340	8 x 22	10	60	195	32	16
10	250	320	190	350	395	12 x 22	10	60	220	40	17
12	300	320	190	400	445	12 x 22	10	70	360	40	15
14	350	320	190	460	505	16 x 22	10	80	470	40	14

To calculate maximum allowable movements in combination use the following formula.

Permissible **axial** displacement (δ) for a given **lateral** displacement(λ).

$$\frac{\lambda_{max} - \lambda}{\lambda_{max}} \cdot \delta_{max} = \delta$$

Permissible **lateral** displacement (λ) for a given **axial** displacement(δ).

$$\frac{\delta_{max} - \delta}{\delta_{max}} \cdot \lambda_{max} = \lambda$$

δ max = Maximum allowable lateral displacement with no axial displacement.

λ max = Maximum allowable axial displacement with no lateral displacement.

N1 = Number of Convolutions

