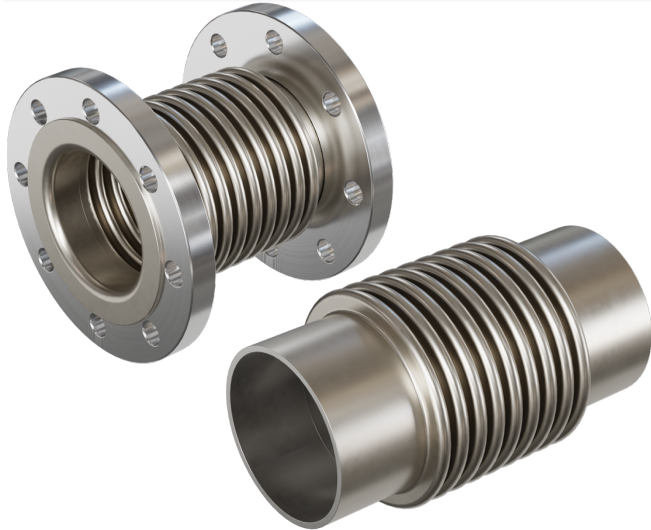


Compensator TYPE KP05



Description:

A compensator is always used when vibrations in a system have to be absorbed.

Product features:

- Recording of axial movements
- Vibration and noise damping connection of pipelines
- Compensation of assembly inaccuracy
- Reduction of forces and moments at connections
- Applicable in e.g. mechanical engineering, building services engineering, power engineering

Connection:
DN50 – DN300

Construction:
straight form

Pressure:
0 – 10 bar – depending on design

Temperature:
-196°C to +550°C – depending on design

Type:

Axial expansion joint with stainless steel bellows

Flange material:

Carbon steel (235JR)

Stainless steel 1.4571 / AISI 316Ti

Welding ends material:

Carbon steel (P235GH-TC1)

Stainless steel 1.4571 / AISI 316Ti

Bellows material:

Stainless steel 1.4571 / AISI 316Ti

Connection:

Version KP0500

Flared flange

Version KP0501

Fixed flange

Version KP0502

Welding end

Nominal pressure:

PN10

Temperatur:

Flared flange

Carbon steel

-10°C up to +300°C*

Fixed flange

-10°C up to +300°C*

Welding end

-10°C up to +400°C*

Stainless steel 1.4571

-196°C up to +550°C*

-196°C up to +550°C*

-196°C up to +550°C*

*The temperature affects the pressure. For more information, please contact our sales department

Axial compensator with welding ends:

Axial expansion joint in compact design, consisting of multi-shaft and multi-layer metal bellows with weld ends (spigots) made of standardized pipes according to EN 10216/10217 ff or rolled from sheet metal according to EN 10028 ff.

Axial compensator with fixed flanges:

Axial expansion joint in compact design, consisting of multi-shaft and multi-layer metal bellows with standardized fixed flanges according to EN 1092-1 type 01.

Axial compensator with flared flanges:

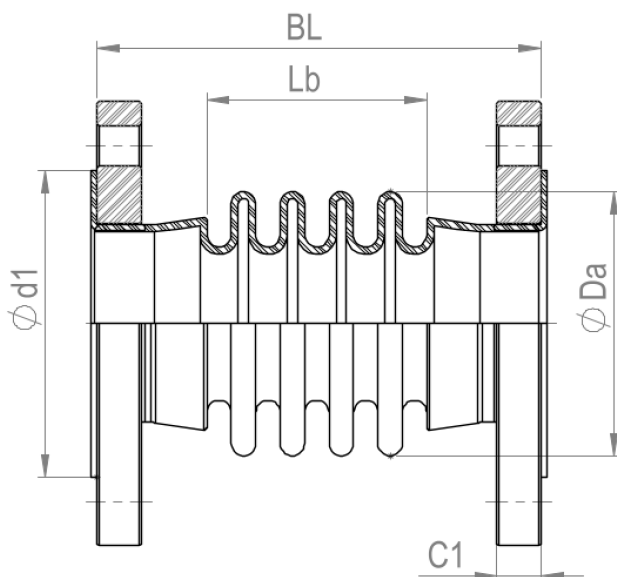
Axial expansion joint in compact design, consisting of multi-shaft and multi-layer metal bellows with rotatable, standardized flared flanges according to EN 1092-1 type 02.

Dimensions:

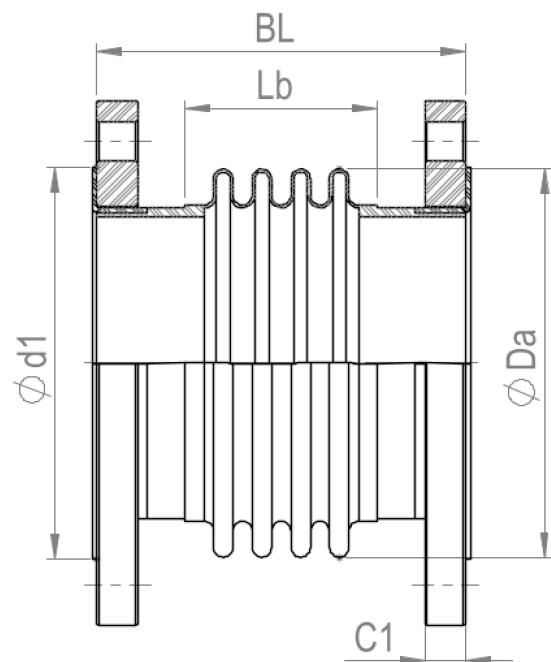
Axial compensator with flared flanges:

Nominal diameter		Length	Bellow			Flange		
			Outer diameter	Waved length	Effective cross cut	Hole pattern acc. to EN1092	Flare diameter	Sheet thickness
DN		BL	Da	Lb	Ae	PN	d1	C1
mm	in	mm	mm	mm	cm ²			
50	2"	200	84	109	42,1	16	102	20
65	2 ½"	200	105	104	65,5	16	122	20
80	3"	200	118	107	86	16	138	20
100	4"	200	141	122	126	16	158	22
125	5"	200	174	128	191	16	188	22
150	6"	200	207	120	273	16	212	24
200	8"	200	262	132	451	10	268	24
250	10"	200	322	63	689	10	320	26
300	12"	200	377	67	954	10	370	26

DN50 – DN80



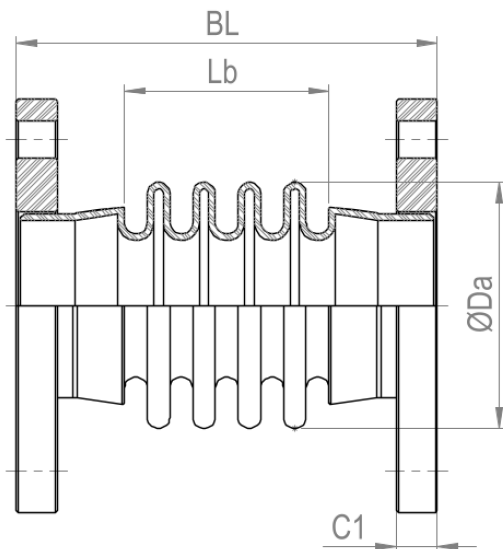
DN100 – DN300



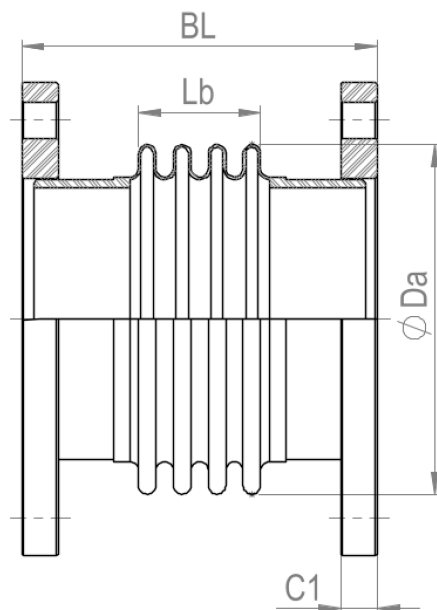
Axial compensator with fixed flanges:

		Bellow				Flange	
Nominal diameter		Length	Outer diameter	Waved length	Effective cross cut	Hole pattern acc. to EN1092	Sheet thickness
DN		BL	Da	Lb	Ae	PN	C1
mm	in	mm	mm	mm	cm²	-	mm
50	2"	200	84	109	41,8	16	20
65	2 ½"	200	105	104	65,5	16	20
80	3"	200	118	107	85,5	16	20
100	4"	200	142	122	127	16	22
125	5"	200	170	128	184	16	22
150	6"	200	205	120	267	16	24
200	8"	200	262	132	445	10	24
250	10"	200	321	63	683	10	26
300	12"	200	377	67	948	10	26

DN50 – DN80



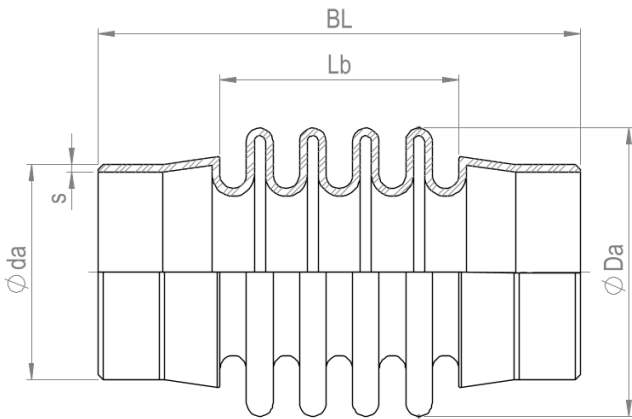
DN100 – DN300



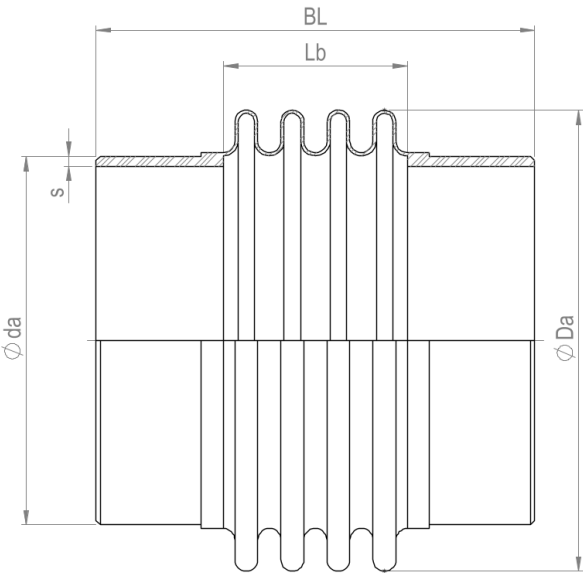
Axial compensator with welding ends:

		Welding end			Bellow		
Nominal size		Length	Outer diameter	Wall thickness	Outer diameter	Waved length	Effective cross cut
DN		BL	da	s	da	Lb	Ae
mm	in	mm	mm	mm	mm	mm	cm ²
50	2"	250	60,3	2,9	84	109	42,1
65	2 ½"	250	76,1	2,9	105	104	65,5
80	3"	250	88,9	3,2	118	107	86
100	4"	250	114,3	3,6	142	122	132
125	5"	250	139,7	4,0	174	128	197
150	6"	250	168,3	4,5	207	120	281
200	8"	250	219,1	6,3	265	132	466
250	10"	250	273	6,3	321	63	700
300	12"	250	323,9	7,1	373	67	962

DN50 – DN80



DN100 – DN300



Axial rotation:

DN	50	65	80	100	125	150	200	250	300
KP05*	±17mm	±21mm	±17mm	±22mm	±30mm	±27mm	±30mm	±18mm	±12,5mm

* all types

Weight in kg:

DN	50	65	80	100	125	150	200	250	300
KP0500	6,4	7,8	8,8	11	13	17	22	28	34
KP0501	6,5	7,5	8,8	11	12	17	23	29	35
KP0502	0,7	1,3	1,4	1,7	2,4	3,3	6,2	8,2	11

Option (on request):

- Other nominal sizes, pressure ratings and overall lengths,
- With special coating, galvanizing or hot-dip galvanizing
- Extension by guide or protection tube

Article number:

Type	Connection	Material connection	Material bellows	Size
KP05	00 – flared flange 01 – fixed flange 02 – welding end	0 – carbon steel 1 – stainless steel	0 – stainless steel	08 – DN50 09 – DN65 10 – DN80 11 – DN100 12 – DN125 13 – DN150 14 – DN200 15 – DN250 16 – DN300
Example Nr. KP05000010:				
KP05	00	0	0	10

Compensator with flared flange in carbon steel and stainless steel bellows
 Connection: flared flange DIN EN 1902-1 PN10
 Material connection: carbon steel
 Material Bellows: stainless steel
 Size: DN80

Illustration similar, subject to technical and dimensional changes.