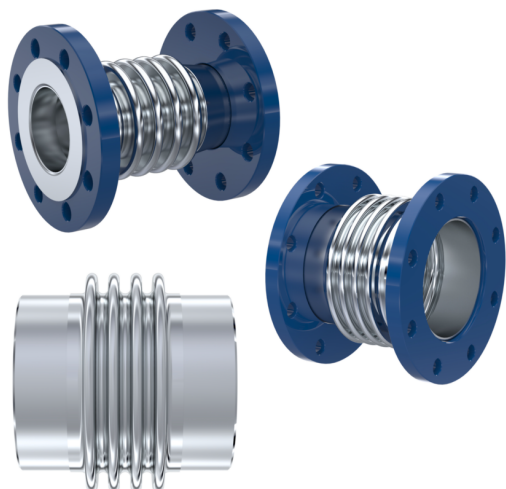


Compensator TYPE KP05



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 the version	temperature: -10°C up to +400°C – depending on the version
------------------------------------	---------------------------------------	---	--

type:

Axial expansion joint with stainless steel bellows

flange material:

Carbon steel (235JR)

Welding ends material:

Carbon steel (P235GH-TC1)

bellows material:

Stainless steel AISI 316T

cuff:

execution 00	Flared flange	-10°C up to +300°C
execution 01	Fixed flange	-10°C up to +300°C
execution 02	Welding end	-10°C up to +400°C

pressure:

PN10

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.

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:

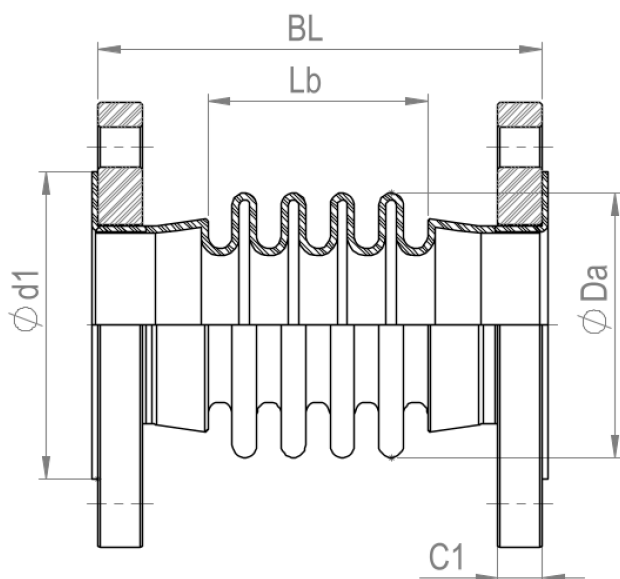
Axial expansion joint in compact design, consisting of multi-shaft and multi-layer metal bellows with rotatable, standardized flared flanges according to EN 1092-1 type 02.

Dimensions:

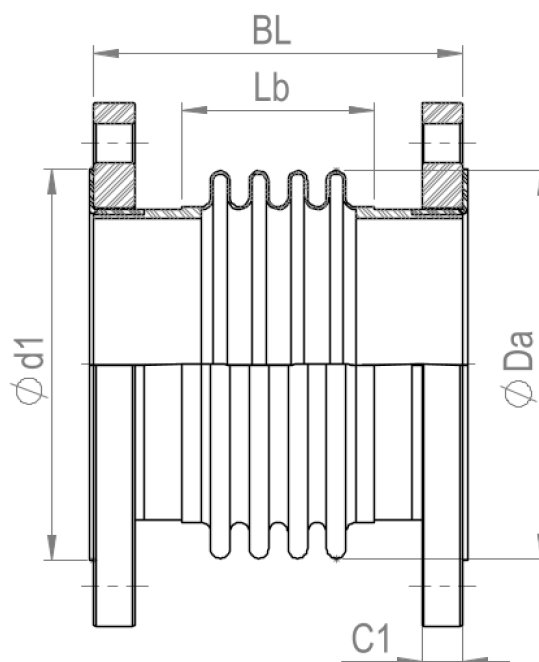
Axial compensator with flared flanges:

Nominal size		length	bellows			flange		
			Outer diameter	Waved length	effective cross cut	Hole pattern according to EN1092	Flare-diameter	Sheet thickness
			Da	Lb	Ae			
DN		BL	Da	Lb	Ae	PN	d1	C1
mm	in	mm	mm	mm	cm ²			
50	2"	200	84	87	42,1	16	102	20
65	2 ½"	200	105	104	65,5	16	122	20
80	3"	200	118	99	86	16	138	20
100	4"	200	141	168	126	16	158	22
125	5"	200	174	125	191	16	188	22
150	6"	200	207	124	273	16	212	24
200	8"	200	262	94	451	10	268	24
250	10"	200	322	123	689	10	320	26
300	12"	200	377	135	954	10	370	26

DN50 – DN80



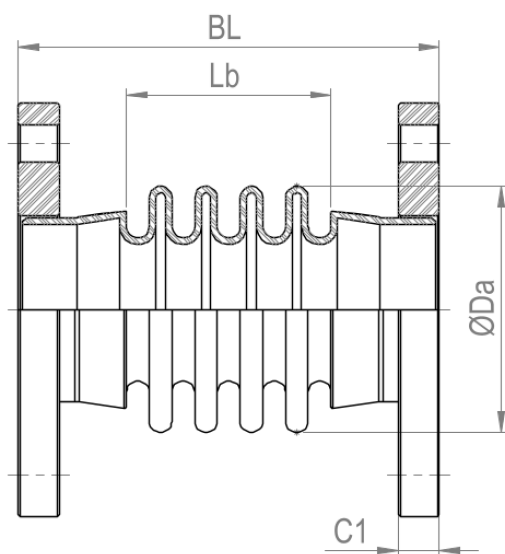
DN100 – DN300



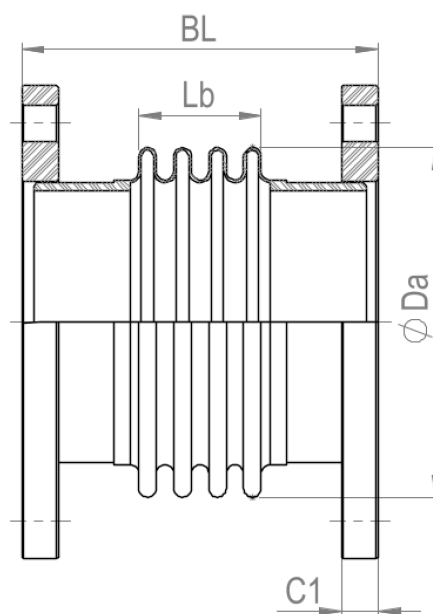
Axial compensator with fixed flanges:

Nominal size		length	bellows			flange	
			Outer diameter	Waved length	effective cross cut	Hole pattern according to EN1092	Sheet thickness
DN		BL	Da	Lb	Ae	PN	C1
mm	in	mm	mm	mm	cm ²	-	mm
50	2"	200	84	129	41,8	16	20
65	2 1/2"	200	105	104	65,5	16	20
80	3"	200	118	121	85,5	16	20
100	4"	200	142	140	127	16	22
125	5"	200	170	107	184	16	22
150	6"	200	205	124	267	16	24
200	8"	200	262	159	445	10	24
250	10"	200	321	123	683	10	26
300	12"	200	377	135	948	10	26

DN50 – DN80



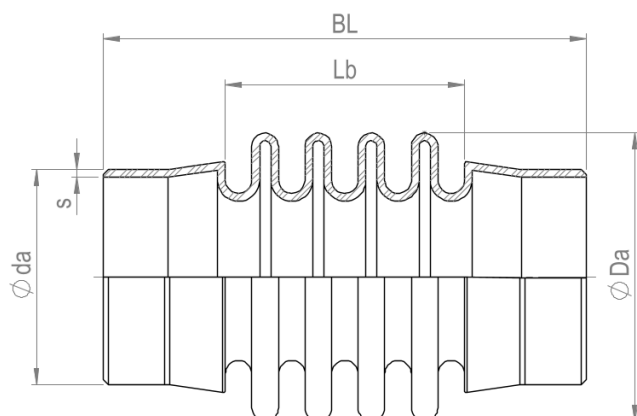
DN100 – DN300



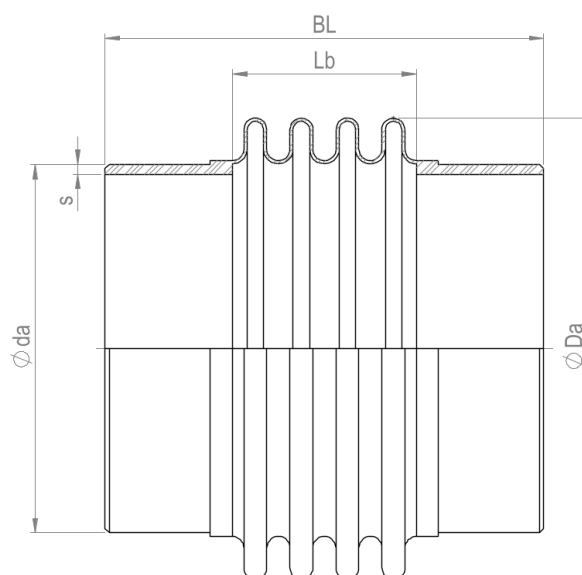
Axial compensator with welding ends:

Nominal size		length	Welding end		bellows		
			Outer diameter	Wall-thickness	Outer diameter	Waved length	effective cross cut
DN		BL	da	s	da	Lb	Ae
mm	mm	mm	mm	mm	mm	mm	cm ²
50	200	200	60,3	2,9	84	78	42,1
65	200	200	76,1	2,9	105	104	65,5
80	200	200	88,9	3,2	118	99	86
100	200	200	114,3	3,6	142	80	132
125	200	200	139,7	4,0	174	76	197
150	200	200	168,3	4,5	207	84	281
200	200	200	219,1	6,3	265	94	466
250	200	200	273	6,3	321	120	700
300	200	200	323,9	7,1	373	106	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

item number:

type	connection	bellows	size
KP04	00 – flared flange 01 – fixed flange 02 – welding end	00 – stainless steel	05 – DN25 06 – DN32 07 – DN40 08 – DN50 09 – DN65 10 – DN80 11 – DN100 12 – DN125 13 – DN150 14 – DN200 15 – DN250 16 – DN300

Example Nr. KP04000010:

KP04 | **00** | **00** | **10**

Compensator with flared flange and stainless steel bellows

Connection: flared flange DIN EN 1902-1 PN10

Bellows: stainless steel

Size: DN80

Illustration similar, subject to technical and dimensional changes.