ZKB

Rubber expansion joints

Technical Data Sheet

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Description

Mounted on piping installations, the ZKB joint absorbs expansions, contractions, oscillations and vibrations, diminishes hammering, reduces noise and prevents electric currents from spreading.

- Galvanised steel flanges.
- Drilling : EN1092 - PN10/PN16

- Optional *(consult us)* :
  - Material SS: 304, 304L, 316, 316L
  - Drilling : PN25, ANSI 150
  - Vacuum ring

ZKB

Rubber expansion joints

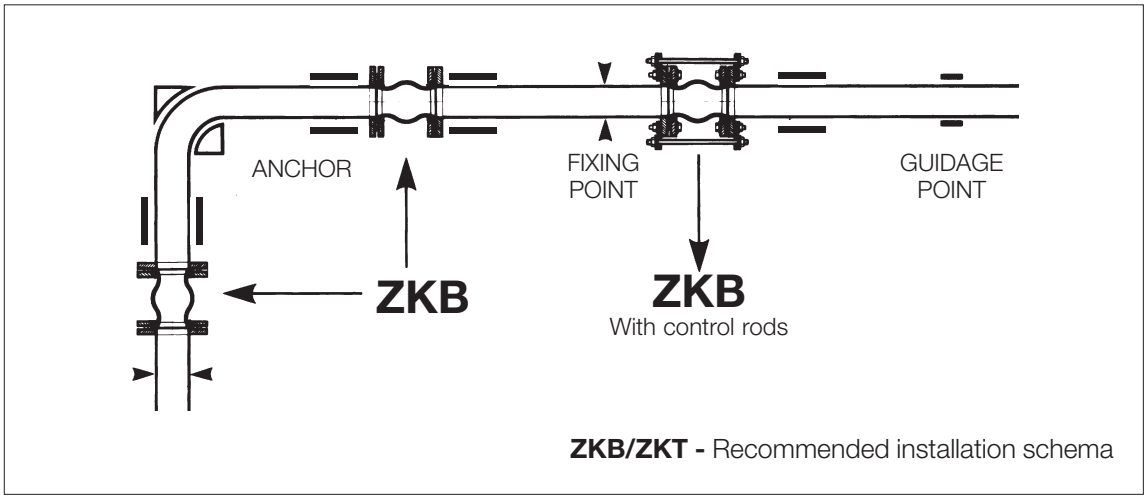
DN		PN flange	PFA in bar	PS in bar				Cat.	Ref.		Weight Kg
"	mm			L1	L2	G1	G2		EPDM	NBR	
1 1/4	32	10/16	16	16	16	0,5	16	4.3	**149B12552C**	**149B12552N**	3,1
1 1/2	40	10/16	16	16	16	0,5	16	4.3	**149B12553C**	**149B12553N**	3,5
2	50	10/16	16	16	16	0,5	16	4.3	**149B12554C**	**149B12554N**	4,4
2 1/2	65	10/16	16	16	16	0,5	15	4.3	**149B12555C**	**149B12555N**	5,2
3	80	10/16	16	16	16	0,5	12	4.3	**149B12556C**	**149B12556N**	6,5
4	100	10/16	16	16	16	0,5	10	4.3	**149B12557C**	**149B12557N**	7,1
5	125	10/16	16	16	16	0,5	8	4.3	**149B12558C**	**149B12558N**	9,6
6	150	10/16	16	13	16	0,5	6	4.3	**149B12559C**	**149B12559N**	13
8	200	10	10	10	10	0,5	5	4.3	**149B12560C**	**149B12560N**	17,5
10	250	10	10	8	10	0,5	4	4.3	**149B12561C**	**149B12561N**	23,7
12	300	10	10	6	10	0,5	3	4.3	**149B12562C**	**149B12562N**	29
14	350	10	8	5	8	0,5	2	4.3	**149B12563C**	**149B12563N**	40
16	400	10	8	5	8	0,5	2	4.3	**149B12564C**	**149B12564N**	47
18	450	10	8	4	8	0,5	2	4.3	**149B12565C**	**149B12565N**	49
20	500	10	8	4	8	0,5	2	4.3	**149B12566C**	**149B12566N**	62
24	600	10	8	3	8	0,5	1	4.3	**149B12567C**	**149B12567N**	80
8	200	16	16	10	16	0,5	5	4.3	**149B054065**	**149B054074**	17,5
10	250	16	16	8	16	0,5	4	4.3	**149B054066**	**149B054072**	25,7
12	300	16	16	6	16	0,5	3	4.3	**149B054067**	**149B054073**	35
14	350	16	8	5	8	0,5	2	4.3	**149B054068**	**149B054075**	43
16	400	16	8	5	8	0,5	2	4.3	**149B054069**	**149B054076**	55
18	450	16	8	4	8	0,5	2	4.3	**149B054070**	**149B054077**	66
20	500	16	8	4	8	0,5	2	4.3	**149B054080**	**149B054078**	85
24	600	16	8	3	8	0,5	1	4.3	**149B054071**	**149B054079**	110

Important notice :

The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions.

Technical features	
Operating temperature	See pressure curve / temperature
Permissible operating pressure (PFA) in water	See table above
Maximum permissible pressure (PS) other mediums	See table aboves
Connection	Flanges drilled PN (See table)

Installation



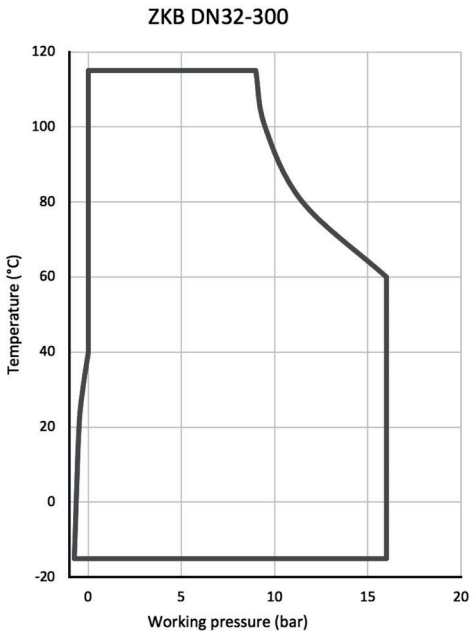
ZKB/ZKT - Recommended installation schema

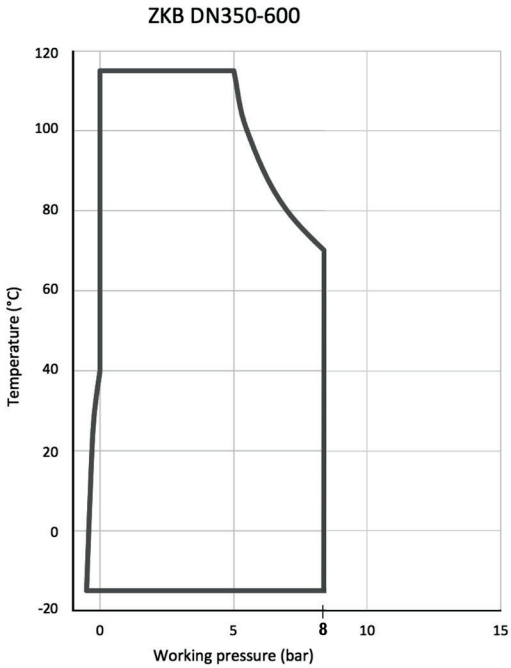
- Connection according to EN1092-1 :
. Flanges : type 5 excluded
. Seal scope : type A and B only

- Mounting instruction : see document ZKB-ZKT-IM-FR-S-ML avalaible on www.socla.com

Operation

ZKB - Pressure/Température diagram





Attention :

Pressure 16 bar up to DN 300 / 8 bar DN 350 to 600

Curves made with fluid : Water (others mediums : consult us)

Deformation

DN					
		Compression	Extension	Travel lateral	Angular movement
mm	"	mm	mm	mm	(°)
32	1 1/4	10	6	9	15
40	1 1/2	10	6	9	15
50	2	10	7	10	15
65	2 1/2	13	8	12	15
80	3	15	8	12	15
100	4	19	12	15	15
125	5	19	12	15	15
150	6	20	12	15	10
200	8	20	12	22	10
250	10	28	16	22	10
300	12	28	16	25	10
350	14	28	16	25	10
400	16	28	16	25	10
450	18	28	16	25	10
500	20	28	16	25	10
600	24	28	16	25	10

NOTE - A control rod kit must be installed when the pressure exceeds the values below:

DN	PSI	Bar
50-100	203	14
125-250	145	10
300-350	102	7
400-600	51	3,6

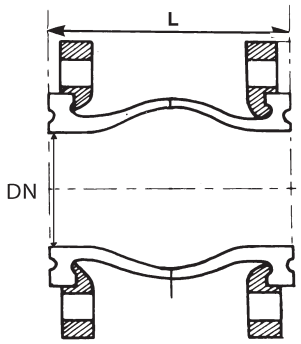
Number of control rod per kit :

DN	Qty
50-200	2
250-300	3
350-600	4

Sizing

DN		L
mm	"	mm
32	1 1/4	95
40	1 1/2	95
50	2	105
65	2 1/2	115
80	3	130
100	4	135
125	5	170
150	6	180
200	8	205
250	10	240
300	12	260
350	14	265
400	16	265
450	18	265
500	20	265
600	24	265

ZKB with flanges



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