

# Rubber expansion joints

## Applications and special features



- **COFDS** : galvanised steel flanges
- Optional : with vacuum ring  
: flanges stainless steel 304 or 316L
- **ZKT** : with galvanised ductile iron union nut connections.
- Optional : bronze connection in case of electrolytic risk - consult us.

## Technical description

COFDS with flanges PN10 EPDM / NBR							
DN	PFA	PS - bar				Cat.	
"	mm	bar	L1	L2	G1	G2	
1 ¼	32	16	16	16	0,5	16	3.3
1 ½	40	16	16	16	0,5	16	3.3
2	50	16	16	16	0,5	16	3.3
2 ½	65	16	16	16	0,5	15	3.3
3	80	16	16	16	0,5	12	3.3
4	100	16	16	16	0,5	10	3.3
5	125	16	16	16	0,5	8	3.3
6	150	16	13	16	0,5	6	3.3
8	200	10	10	10	0,5	5	3.3
10	250	10	8	10	0,5	4	3.3
12	300	10	6	10	0,5	3	3.3
14	350	8	5	8	0,5	2	3.3
16	400	8	5	8	0,5	2	3.3
18	450	8	4	8	0,5	2	3.3
20	500	8	4	8	0,5	2	3.3
24	600	8	3	8	0,5	1	3.3

- Connection : flanges drilled PN : see table
- Permissible operating pressure PFA - water (for supply, distribution, disposal of water) : See table
- Maximum Permissible pressure PS - other mediums : See table
- $\theta$  : see pressure/temperature diagram

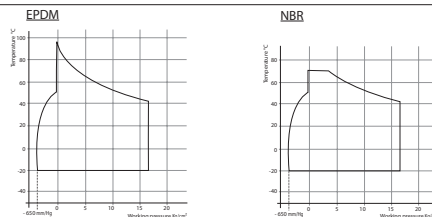
### Important notice :

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.

COFDS with flanges PN16 EPDM / NBR							
DN	PFA	PS - bar				Cat.	
"	mm	bar	L1	L2	G1	G2	
8	200	16	10	16	0,5	5	3.3
10	250	16	8	16	0,5	4	3.3
12	300	16	6	16	0,5	3	3.3
14	350	8	5	8	0,5	2	3.3
16	400	8	5	8	0,5	2	3.3
18	450	8	4	8	0,5	2	3.3
20	500	8	4	8	0,5	2	3.3
24	600	8	3	8	0,5	1	3.3

ZKT female/female								
DN	PFA	PS - bar				Cat.	EPDM	NBR
"	bar	L1	L2	G1	G2			
3/4	10	10	10	10	10	3.3		
1	10	10	10	10	10	3.3		
1 ¼	10	10	10	0,5	10	3.3		
1 ½	10	10	10	0,5	10	3.3		
2	10	10	10	0,5	10	3.3		
2 ½	10	10	10	0,5	10	3.3		
3	10	10	10	0,5	10	3.3		

## Pressure/temperature diagram



**Important :** Pressure 16 bar up to DN 300  
8 bar DN 350 - 600

: For water only ; other fluids : check the compatibility with elastomer

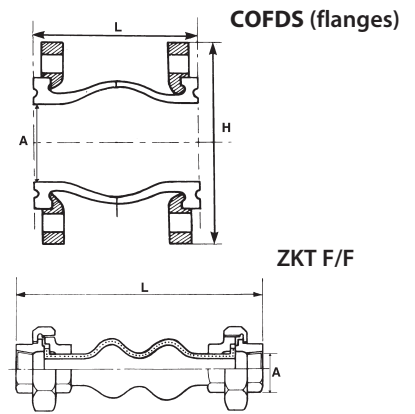
## Overall dimensions

### COFDS with flanges

DN "	A mm	H mm	L mm	KG
1 ¼	32	140	95	3,00
1 ½	40	150	95	3,50
2	52	165	105	3,86
2 ½	68	185	115	5,45
3	76	200	130	6,50
4	103	220	135	7,00
5	128	250	170	11,00
6	152	285	180	14,00
8	194	340	205	20,91
10	250	395	240	25,00
12	300	445	260	38,18
14	320	505	265	50,00
16	372	565	265	60,00
18	415	615	265	70,00
20	454	670	265	88,64
24	580	780	254	95,00

### ZKT F/F

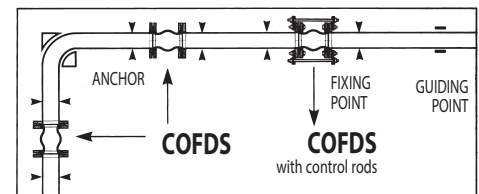
"	A mm	L mm	KG
¾	20	200	0,775
1	25	200	0,685
1 ¼	32	200	1,585
1 ½	40	200	1,985
2	50	200	2,980
2 ½	65	225	2,335
3	80	225	2,600



## Installation scheme

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

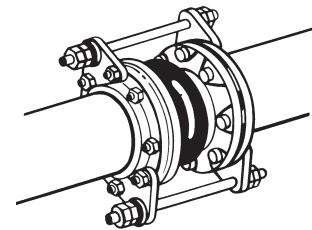
### RECOMMENDED INSTALLATIONS SCHEME



## Control rods

Control rods in galvanised steel - For flanges PN10 and PN16

DN		U V
"	mm	
1 ¼	32	1
1 ½	40	1
2	50	1
2 ½	65	1
3	80	1
4	100	1
5	125	1
6	150	1
8	200	1
10	250	1
12	300	1
14	350	1
16	400	1
18	450	1
20	500	1
24	600	1



JOINTS SIZE		PSIG	Bar
"	mm		
1" - 4"	25 - 100	150	10,3
5" - 10"	125 - 250	135	9,3
12" - 14"	300 - 350	90	6,2
16" - 24"	400 - 600	45	3,1

Control rod unit must be installed when pressure (Test surge, operating) exceeds the rating above.