EXPANSION JOINTS
FIG. T10A10

GENERAL FEATURES:

Flanges PN10/16 in galvanized steel or stainless steel
Different bellow materials available
Max. working pressure: 16 bar (10 bar from DN200 for bellow in NBR food)

FIGURE:

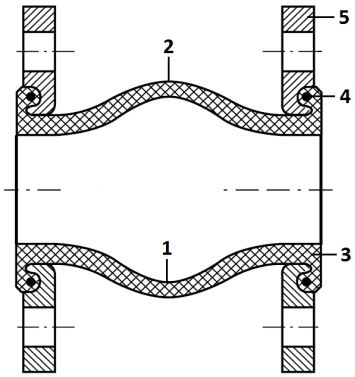
- T10A10E: bellow in EPDM, flanges in galvanized steel
- T10A10EI: bellow in EPDM, flanges in stainless steel
- T10A10EACS: bellow in EPDM (ACS certified), flanges in galvanized steel
- T10A10EHT: bellow in EPDM for high temperatures, flanges in galvanized steel
- T10A10EPI: bellow in Epichlorhydrine (ECO), flanges in galvanized steel
- T10A10CSM: bellow in CSM, flanges in galvanized steel
- T10A10BFDA: bellow in NBR (FDA CFR-21 certified), flanges in galvanized steel
- T10A10BFDAI: bellow in NBR (FDA CFR-21 certified), flanges in stainless steel
- T10A10SBR: bellow in SBR rubber, flanges in galvanized steel
- T10A10FKM: bellow in FKM, flanges in galvanized steel



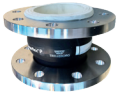
CE

DESIGN STANDARDS	
Construction	ISO 9001 : 2015 & ISO 14001 : 2004
Flanges	EN 1092-2 PN10/16
TESTS AND CERTIFICATES	
Quality Assurance	ISO 9001, CE-PED
Marine ABS (For: T10A10E, T10A10EHT, T10A10EPI, 10A10CSM, T10A10BFDA / T10A10BFDAI)	Certificate N° 03-1D349564/2
Marine DNV (For: T10A10E, T10A10EHT, T10A10EPI)	Certificate N° P-14634
Germanischer Lloyd (For: T10A10E, T10A10EHT, T10A10CSM, T10A10BFDA / T10A10BFDAI)	Certificate N° 35669-84HH
FDA (For: T10A10BFDA / T10A10BFDAI)	FDA CFR-21
European legislation (For: T10A10BFDA / T10A10BFDAI)	1935/2004
Sanitary conformity (For: T10A10EACS)	A.C.S. N° 15 MAT LY 018

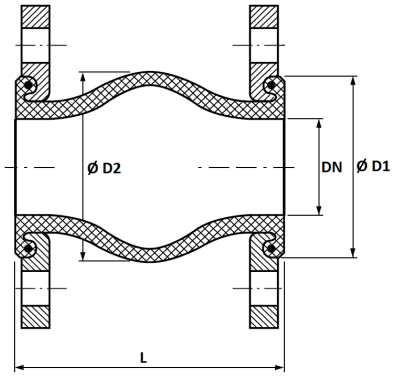
Subject to changes



N°	Description	Materials
1	Bellow (inside)	See table below
2	Bellow (outside)	
3	Reinforcement	Nylon cord
		Aramide (only T10A10EHT)
4	Brace	Carbon steel
5	Flanges	Steel, electrogalvanised
		Stainless steel (only T10A10EI and T10A10BFDAI)

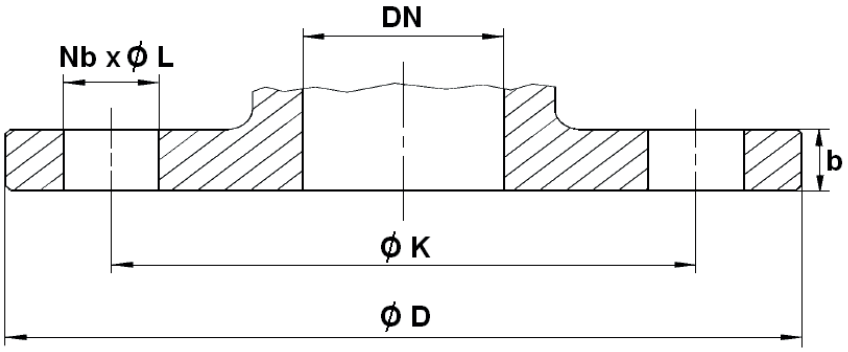
Article code	Material bellow			
	Inside	Outside	Color code	
T10A10E T10A10EI	EPDM	EPDM		Red
T10A10EACS	EPDM ACS	EPDM		Red & white
T10A10EHT	EPDM HT	EPDM HT		Double red
T10A10EPI	Epichlorhydrin (ECO)	Epichlorhydrin (ECO)		Yellow
T10A10CSM	CSM	Chloroprene (CR)		Green
T10A10BFDA T10A10BFDAI	NBR food (FDA)	Epichlorhydrin (ECO)		White
T10A10SBR	Rubber SBR	Chloroprene (CR)		Blue
T10A10FKM	FKM	FKM		Double purple

Subject to changes



Dimensions (mm):

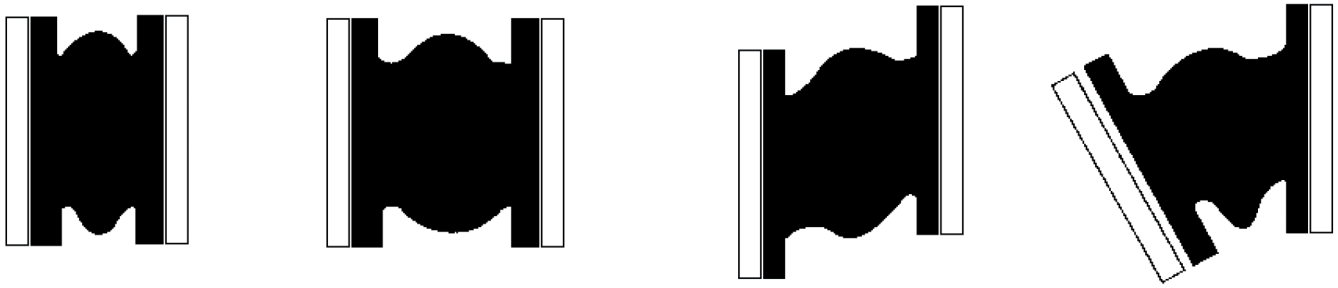
DN *	L	ø D1	ø D2	Kg
32	130	72	77	2,8
40	130	80	85	3,3
50	130	90	95	3,7
65	130	105	110	4,8
80	130	120	125	5,3
100	130	140	145	6,2
125	130	165	170	8,2
150	130	190	195	11,2
200	130	240	245	16,8
250	130	290	295	21,6
300	130	340	345	30,1



Dimensions (mm):

DN	ø D	ø K	Nb x Ø L	b
32	140	100	4 x 18	13,8
40	150	110	4 x 18	14,0
50	165	125	4 x 18	14,1
65	185	145	4 x 18	14,4
80	200	160	8 x 18	14,8
100	220	180	8 x 18	15,2
125	250	210	8 x 18	16,0
150	285	240	8 x 22	17,8
200	340	295	8 x 22	20,2
250	395	350	12 x 22	22,6
300	445	400	12 x 22	26,5

Subject to changes



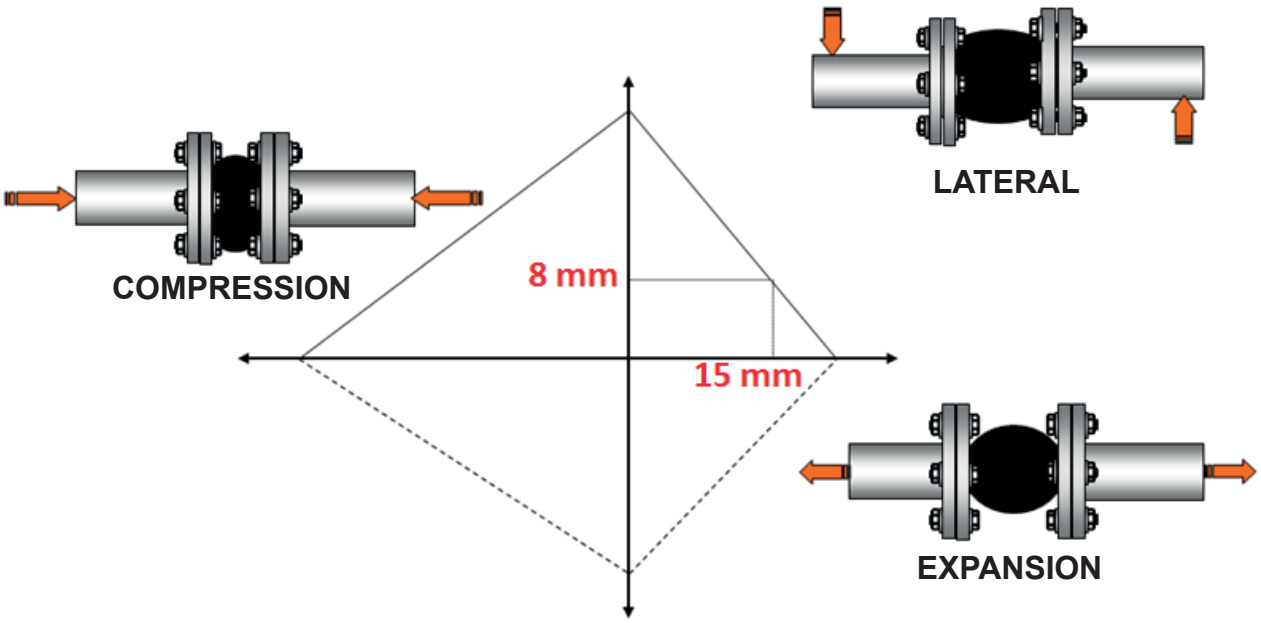
COMPRESSION EXPANSION LATERAL ANGULAR

Movement (mm):

DN	Compression	Expansion	Lateral	Angular
32	30	20	20	35°
40	30	20	20	35°
50	30	20	20	35°
65	30	20	20	30°
80	30	20	20	30°
100	30	20	20	25°
125	30	20	20	25°
150	30	20	20	15°
200	30	20	20	15°
250	30	20	20	10°
300	30	20	20	10°

ATTENTION!

The maximal movements cannot be applied simultaneously.
For example: for an elongation of 15mm there can only be a maximal lateral movement of 8mm.



Subject to changes

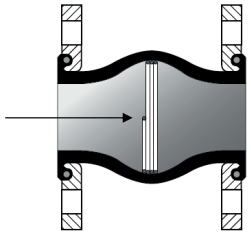
Applications:

Article code	Material		Max. Temp.	Application
	Inside	Outside		
T10A10E T10A10EI	EPDM	EPDM	-35°C ~ 90°C	Warm water, cooling water with saline solutions, chlorine solutions, esters & ketones
T10A10EACS	EPDM ACS	EPDM	-25°C ~90°C	Potable water (Certificate ACS : MAT LY 018)
T10A10EHT	EPDM HT	EPDM HT	-35°C ~ 130°C	Warm water, steam up to 130°C, warm air up to 130°C
T10A10EPI	Epichlorhydrin (ECO)	Epichlorhydrin (ECO)	-25°C ~ 90°C	Water, saline solutions, caustic solutions, mineral, vegtable or animal oils, oil aerosols, butane and propane gas
T10A10CSM	CSM	Chloroprene (CR)	-25°C ~90°C	Strong and concentrated acids, compressed air for oil aerosol propulsion
T10A10BFDA T10A10BFDAI	NBR food (FDA)	Epichlorhydrin (ECO)	-25°C ~90°C	Foodstuffs and drinks, including fats and oils
T10A10SBR	Rubber SBR	Chloroprene (CR)	-35°C ~ 90°C	Abrasive materials resistant to water solutions with hydrocarbons or oils, rocks suspended in fluid, slurries, calcium
T10A10FKM	FKM	FKM	-20°C ~ 150°C	Highly agressive chemical products at high temperatures up to 150°C

Vacuum (bar):

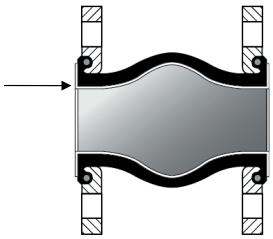
DN	32	40	50	65	80	100	125	150	200	250	300
Vacuum	0,8	0,8	0,7	0,6	0,5	0,5	0,4	0,3	0,3	0,2	0,2

Options:



Vacuum ring in stainless steel 316 Ti.

The vacuum ring is recommended when the expansion joint bellow is used for vacuum applications (for example pumps). Up to 1 bar vacuum.



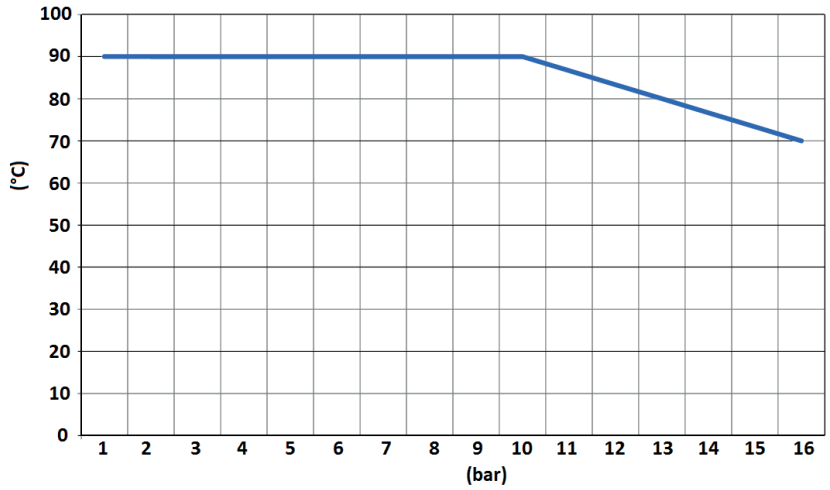
Teflon lining (inside).

This is recommended for strong and/or concentrated acids and bases.
The allowable movement of the bellow, in this case, is reduced by 50%.
The usage with vacuum applications is prohibited.
Maximal pressure: 6 bar

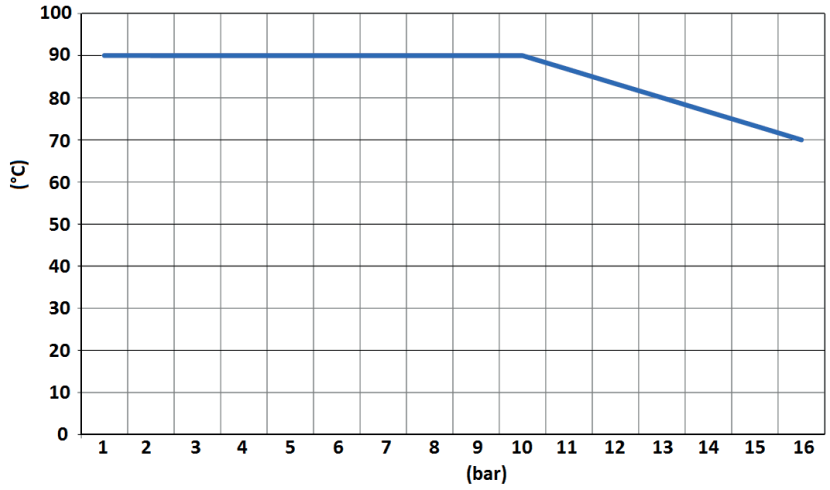
Subject to changes

PT:

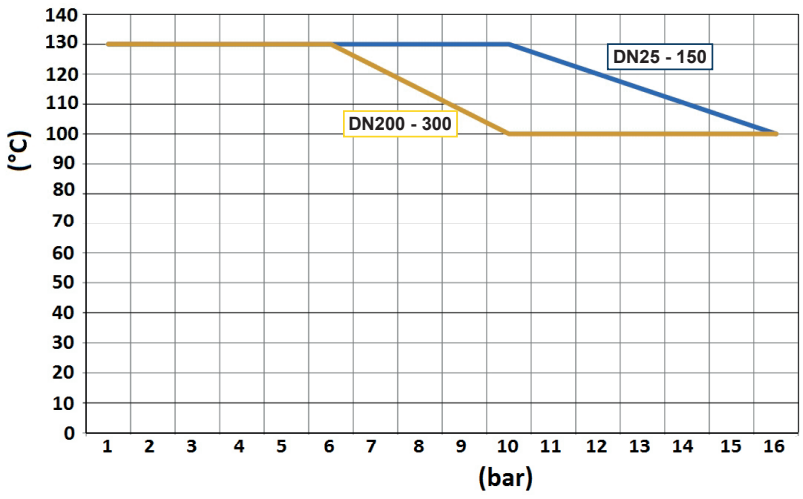
T10A10E / T10A10EI*



T10A10EACS*



T10A10EHT

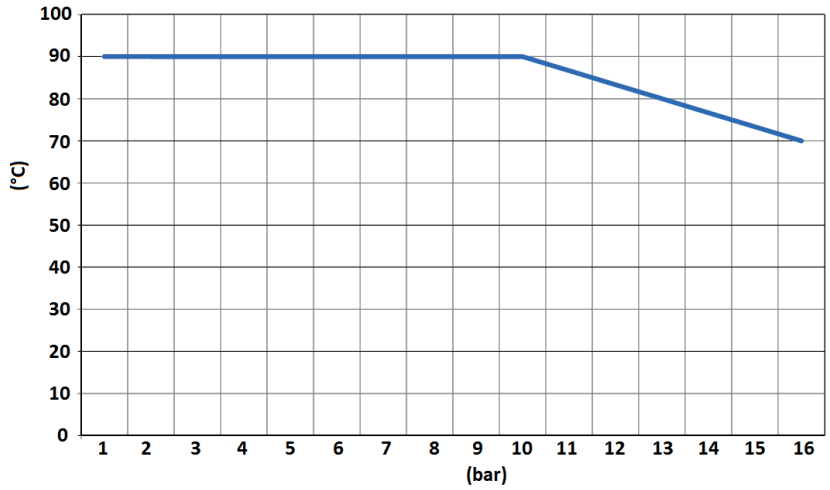


* The values listed above are NOT applicable for steam

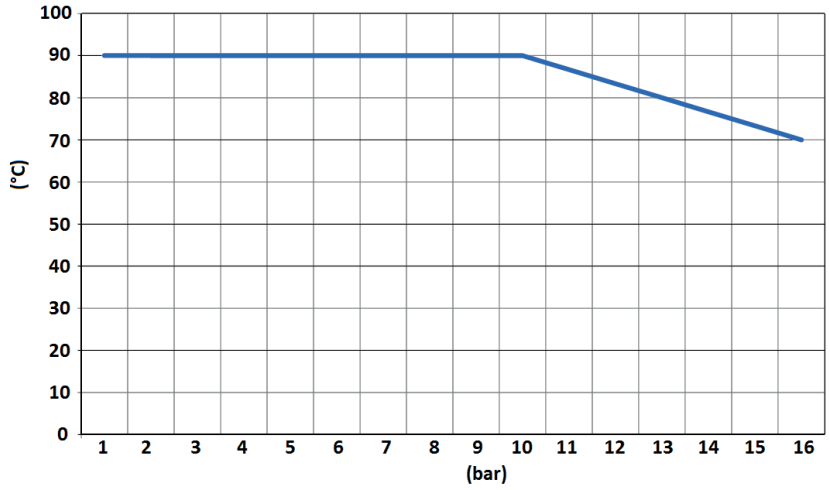
Subject to changes

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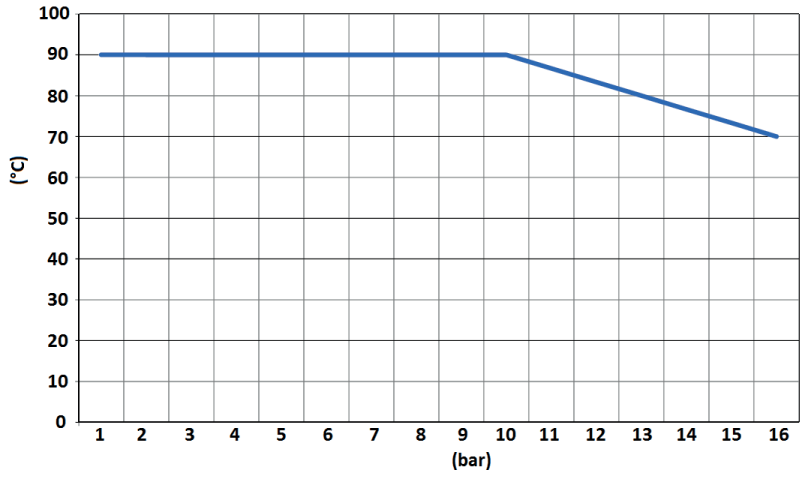
T10A10EPI*



T10A10CSM*



T10A10BFDA / T10A10BFDAI*

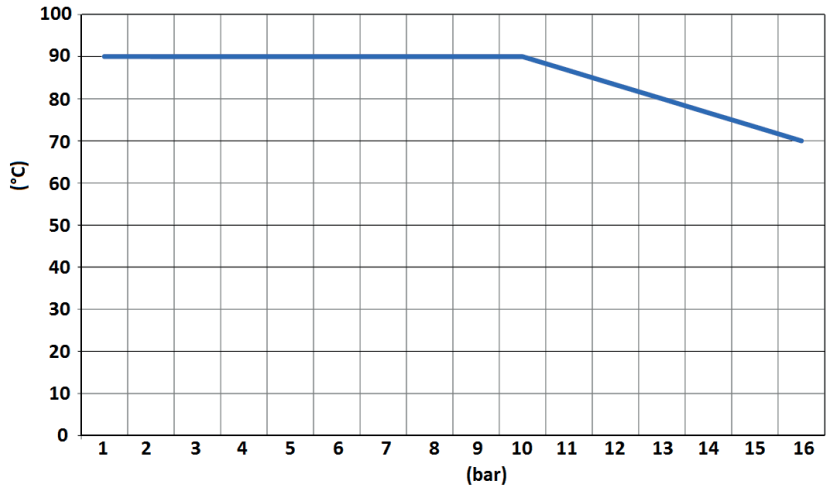


* The values listed above are NOT applicable for steam

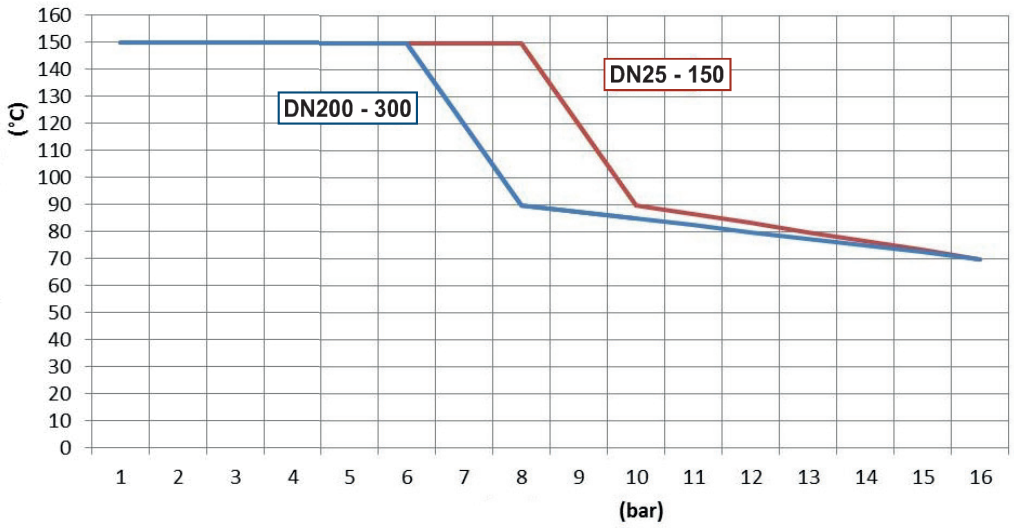
Subject to changes

PT:

T10A10SBR*



T10A10FKM*



* The values listed above are NOT applicable for steam

Subject to changes