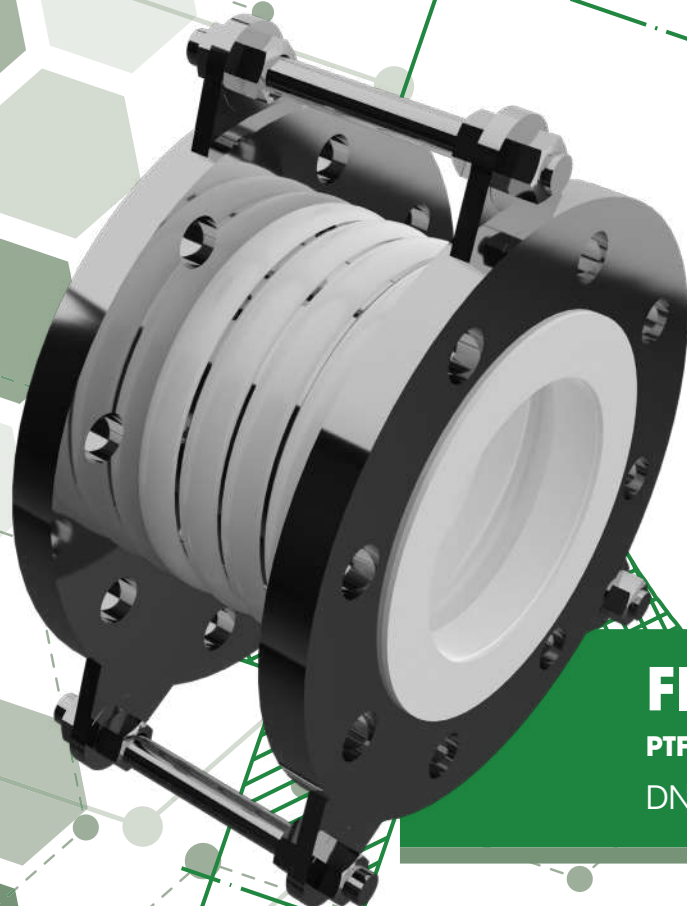




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## **FIG. 823T**

**PTFE CS FLANGED EXPANSION JOINT**

**DN25 - DN300 | PN10**

# KTN PTFE EXPANSION JOINT:

Our **KTN 823T compensator** absorbs noise from pipes, reduces stress on the system and **isolates mechanical vibrations**. The quality PTFE **has excellent chemical stability**, resistance to all strong acids, strong bases, strong oxidants, and a variety of organic solvents do not occur. PTFE also has a very low friction factor, heat resistance, non-absorbency, excellent aging resistance, non-viscosity and non-flammability. Its flexibility allows it to compensate for breakout forces and protect itself from overvoltages.

## 1 Flanged ends:

Galvanized carbon steel flange manufactured in standard BS EN1092-1 DIN from DN25 to DN300, PN10 for piping connection.

## 2 PTFE Bellow:

Isostatic PTFE molding, with consist in higher molding pressure and higher density and superior resistance to penetration. This are the key features: Resistance to full vacuum at 180°C; Suitable for higher temperature; Suitable for higher working pressure; Designed for isostatic applications like strong corrosive media, high purity electronic chemicals, semiconductive and ultra-pure water process.

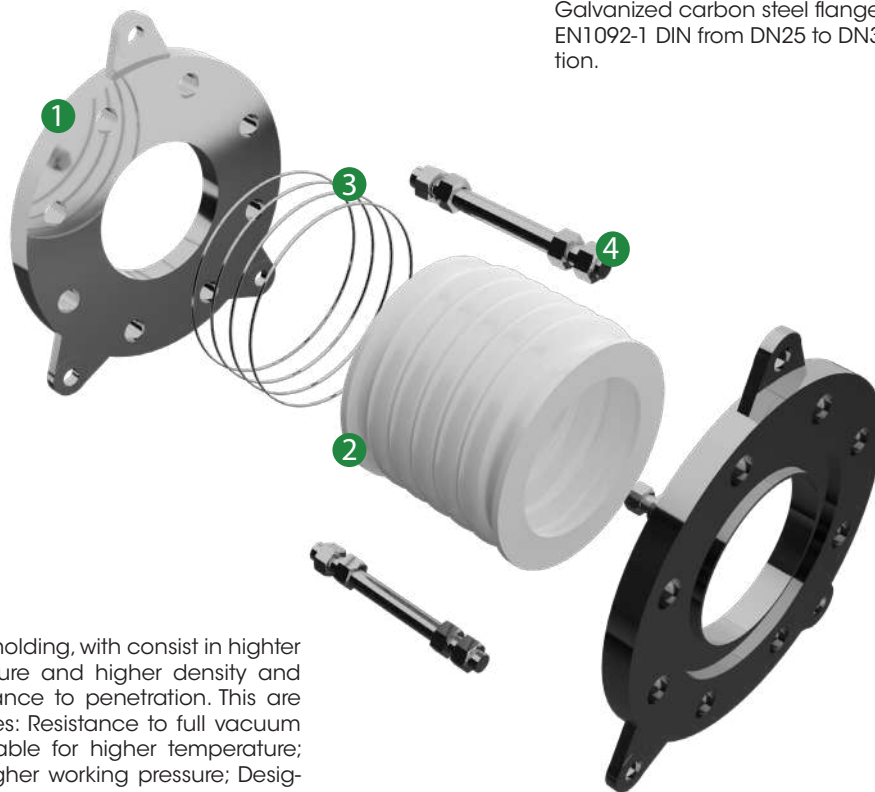
## 3 Reinforcement ring:

Reinforcement ring made in 304 stainless steel attached to the tangent end for an extra reinforcement.

## 4 Tie rod:

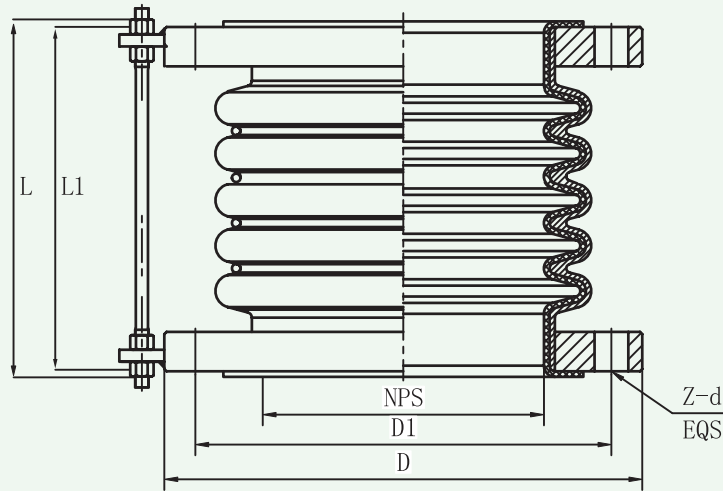
Tie rods are devices, in the form of rods or bars, that are fixed to the expansion joint assembly and whose main function is to continually restrict the total pressure thrust of the bellows during normal operation, allowing only lateral deflection.

The ties are joined in a way that eliminates axial movement and forces the ends of the expansion joint to remain parallel at all times.



# KTN 823T

PTFE EXPANSION JOINT WITH GALVANIZED CARBON STEEL FLANGES



Model	823E - PN10	823E - PN16	823E - PN25
Flange standard	DIN		
Working pressure MPa (kgf/cm <sup>2</sup> )	1.0 (10)	1.6 (16)	2.5 (25)
Explosion pressure MPa (kgf/cm <sup>2</sup> )	2.0 (20)	3.0 (30)	4.5 (45)
Vacuum degree kpa (mm/Hg)	53.3 (400)	86.7 (650)	100 (750)
Suitable temperature °C (EPDM)	-10°C ~ +120°C		
Medium	Water		

OUTLINE DIMENSIONS									
DN	L	L1	D	K	t	t1	n-ø	Qty of wave	Weight (Kg)
25	140	125	115	85	16	2	4-ø14	5	
32	120	115	140	100	16	2	4-ø18	5	
40	155	145	150	110	16	2	4-ø18	5	
50	180	175	165	125	18	2.5	4-ø18	5	
65	185	175	185	145	18	3	4-ø18	5	
80	205	195	200	160	20	3	4-ø18	5	
100	180	-	220	180	20	3	8-ø18	5	
125	240	-	250	210	22	3	8-ø18	5	
150	250	-	285	240	22	3	8-ø22	5	
200	270	-	340	295	24	3	8-ø22	5	
250	290	-	395	350	26	3	12-ø22	5	
300	330	-	445	400	26	3	12-ø22	5	