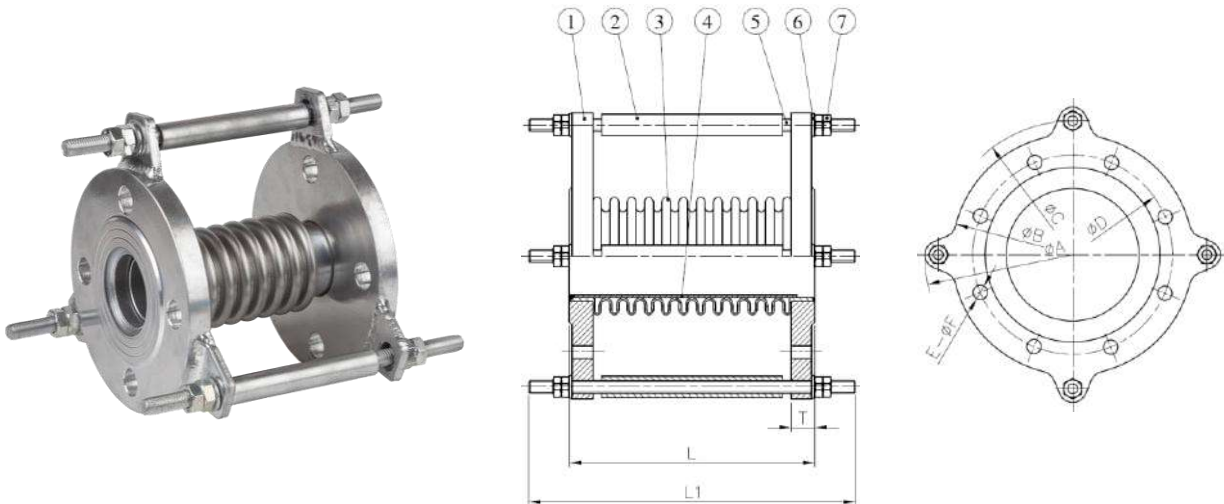


Art2835E Metal Expansion Joints (BS EN 1092-1 Flanged)

Features

1. Metal expansion joint.
2. Flanged ends according to EN 1092 PN 16.
3. Body made of Stainless Steel 1.4301 (AISI 304).
4. Carbon steel flanges with anti-caloric paint.
5. Reduced vibration.
6. Limit rods are used to protect from movements in excess (from 2").
7. Inner Sleeve to avoid excessive head loss and product accumulation inside the bellows which could reduce the work capacity of the expansion joint.
8. Unidirectional design (see arrow of flow direction).
9. Max. Working pressure 16 bar.
10. Working temperature -40 °C / +300 °C.



N°	Name	Material	Surface Treatment
1	Flange	Carbon Steel	Painted
2	Pipe	Carbon Steel	Painted
3	Bellows	Stainless Steel 1.4301	
4	Inner Sleeve	Stainless Steel 1.4301	
5	Rod	Carbon Steel	Painted
6	Washer	Rubber	
7	Nut	Carbon Steel	Painted

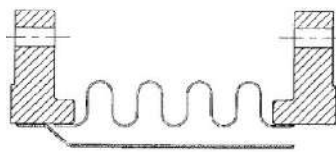
General Dimensions

Ref	Size	DN	PN	N° Conv.	Dimensions (mm)				Weight (Kg)
					A	B	C	D	
2835E 06	1"	25	16	11	-	115	-	85	2,650
2835E 07	1 ¼"	32	16	11	-	140	-	100	3,700
2835E 08	1 ½"	40	16	11	-	150	-	110	4,280
2835E 09	2"	50	16	11	235	165	195	125	7,600
2835E 10	2 ½"	65	16	11	255	185	215	145	9,500
2835E 11	3"	80	16	12	270	200	230	160	10,500
2835E 12	4"	100	16	12	305	220	250	180	13,500
2835E 13	5"	125	16	11	360	250	287	210	19,700
2835E 14	6"	150	16	12	390	285	322	240	26,000
2835E 16	8"	200	16	12	430	340	377	295	30,800

Ref	Size	DN	PN	Dimensions (mm)				
				E - F	Rods	L	L1	T
2835E 06	1"	25	16	4 - 14	-	170	-	16
2835E 07	1 ¼"	32	16	4 - 18	-	170	-	16
2835E 08	1 ½"	40	16	4 - 18	-	170	-	16
2835E 09	2"	50	16	4 - 18	3 x M12	170	245	16
2835E 10	2 ½"	65	16	4 - 18	3 x M12	170	245	18
2835E 11	3"	80	16	8 - 18	3 x M12	170	245	18
2835E 12	4"	100	16	8 - 18	3 x M12	170	245	20
2835E 13	5"	125	16	8 - 18	4 x M16	170	265	20
2835E 14	6"	150	16	8 - 23	4 x M16	220	315	23
2835E 16	8"	200	16	12 - 23	4 x M16	220	315	23

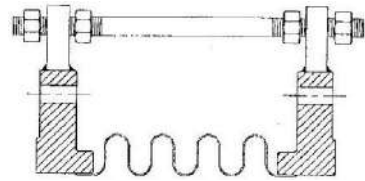
Performance Parameter

Reference	DN	Working Pressure (bar)	Working Temperature (°C)	Axial compensation in different cycle (mm)			Axial Spring Rate (Kgf/mm)	Effective Area (cm ²)
				≤ 1000 Cycle	≤ 5000 Cycle	≤ 10000 Cycle		
2835E 06	25	16	300	± 11	± 6	± 5	40	16,3
2835E 07	32			± 11	± 6	± 5	40	16,3
2835E 08	40			± 11	± 6	± 5	40	16,3
2835E 09	50			± 15	± 9	± 7	28	27,3
2835E 10	65			± 17	± 9	± 7	33	47,3
2835E 11	80			± 17	± 9	± 7	34	58
2835E 12	100			± 16	± 9	± 6	45	98,5
2835E 13	125			± 14	± 8	± 6	63	160,6
2835E 14	150			± 18	± 10	± 8	76	228,3
2835E 16	200			± 26	± 15	± 12	56	366,4



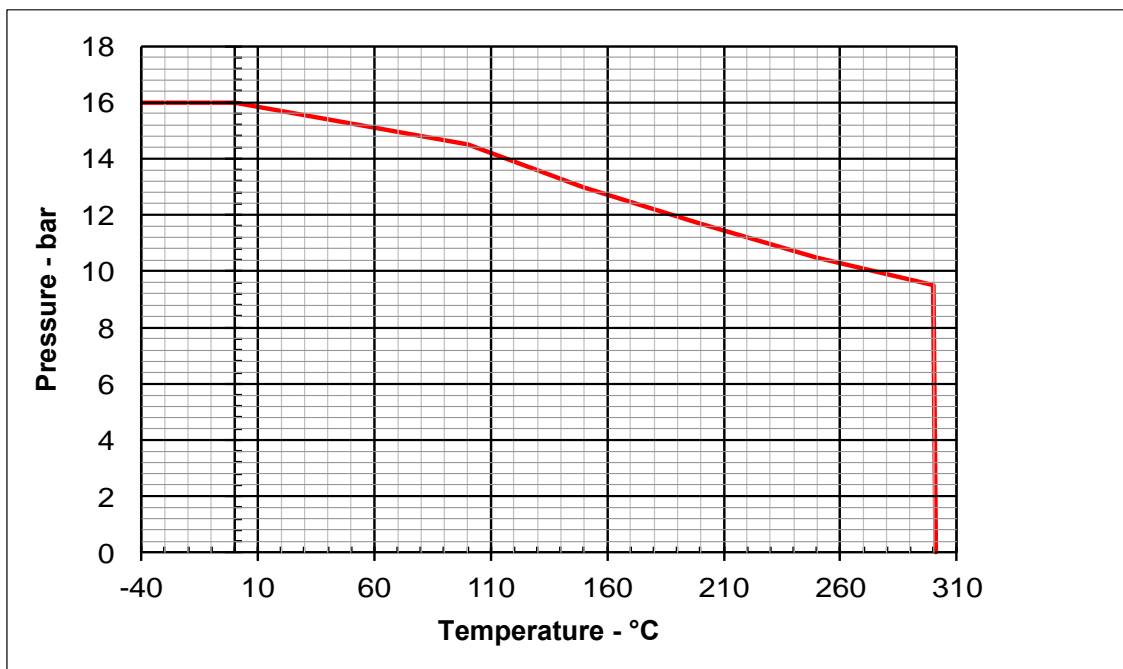
Inner Sleeve Detail

Flow Direction



Limit Rod Detail (2" & Above)

Pressure/Temperature Rating



Kv Values

Kv (m³/h): Water flow rate in cubic meter per hour generating a 1 bar pressure drop across the expansion joint.

1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"
70	70	70	170	385	512	1418	2210	3557	6012