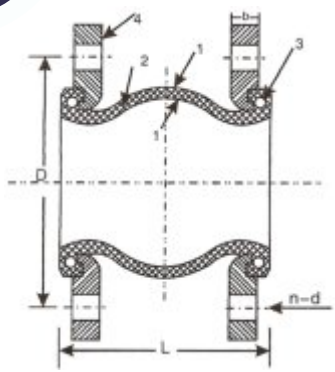




SINGLE SPHERE EXPANSION JOINT - FLANGE TYPE



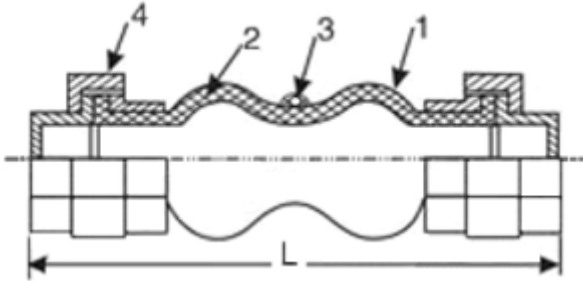
TECHNICAL SPECIFICATIONS	
Working Pressure	1.6Mpa (16kgf/cm ²)
Bursting Pressure	3.0Mpa (30kgf/cm ²)
Vacuum Degree	650mmHg
Working Temperature	-15°C to + 115°C -30°C to + 250°C on Request
Working Medium	Vapour, compressed air, cold & hot water, seawater, oil, weak acid, alkali
Drilling	DIN Pn10, PN16, ANSI 150LBS

MATERIALS		
Item No.	Description	Material
1	Main Body	Neoprene, EPDM, NBR
2	Lining	Chinlon Cord Fabrics
3	Frame	Hard Steel Wires
4	Flange	Carbon Steel

DIMENSIONS															
Nominal Core Diameter		Length	Flange Thickness		Number of Bolt Holes		Diameter of Bolt Holes		Bolt Circle Diameter		Axial Displacement		Lateral Displacement	Angle of Deflection	
mm	Inch	L	b		n		d		D		mm		mm	°C	
		mm	ANSI 150LBS	DIN PN16	ANSI 150LBS	DIN PN16	ANSI 150LBS	DIN PN16	ANSI 150LBS	DIN PN16	Stretch	Comp-ression			
32	1.1/4"	95	16	16	4	4	15.7	18	88.9	100	6	9	9	15	
40	1.1/2"	95	16	16	4	4	15.7	18	98.6	110	6	10	9	15	
50	2"	105	18	18	4	4	19.1	18	120.7	125	7	10	10	15	
65	2.1/2"	115	18	18	4	4	19.1	18	139.7	145	7	13	11	15	
80	3"	135	20	20	4	8	19.1	18	152.4	160	8	15	12	15	
100	4"	150	20	20	8	8	19.1	18	190.5	180	10	19	13	15	
125	5"	165	22	22	8	8	22.4	18	215.9	210	12	19	13	15	
150	6"	180	22	22	8	8	22.4	23	241.3	240	12	20	14	15	
200	8"	210	24	24	8	12	22.4	23	298.5	295	16	25	22	15	
250	10"	230	26	28	12	12	25.4	27	362	355	16	25	22	15	
300	12"	245	28	28	12	12	25.4	27	431.8	410	16	25	22	15	
350	14"	255	30	30	12	16	28.4	27	476.3	470	16	25	22	15	
400	16"	255	32	32	16	16	28.4	30	539.8	525	16	25	22	15	
500	20"	255	34	36	20	20	31.8	33	635	650	16	25	22	15	
600	24"	260	36	38	20	20	35.1	36	749.3	770	16	25	22	15	



TWIN SPHERE EXPANSION JOINT - UNION TYPE



TECHNICAL SPECIFICATIONS

Working Pressure	1.0Mpa (10kgf/cm ²)
Bursting Pressure	3.0Mpa (30kgf/cm ²)
Vacuum Degree	400mmHg
Working Temperature	-15°C to + 115°C -30°C to + 250°C on Request
Working Medium	Vapour, compressed air, cold & hot water, seawater, oil, weak acid, alkali
Threading	DIN 2999, NPT, BSPT

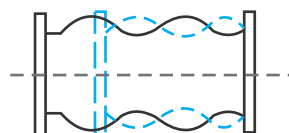
MATERIALS

Item No.	Description	Material
1	Main Body	Neoprene, EPDM, NBR
2	Lining	Chinlon Cord Fabrics
3	Frame	Hard Steel Wires
4	Union	Malleable Iron

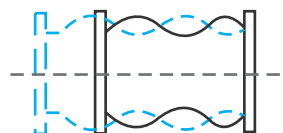
DIMENSIONS

Nominal Diameter		Length (L)	Axial Displacement		Lateral Displacement	Angle of Deflection
mm	Inch		Stretch	Compression		
		mm	mm		mm	°C
20	3/4"	180	5-6	22	22	45
25	1"	180	5-6	22	22	45
32	1.1/4"	200	5-6	22	22	45
40	1.1/2"	210	5-6	22	22	45
50	2"	220	5-6	22	22	45
65	2.1/2"	245	5-6	22	22	45

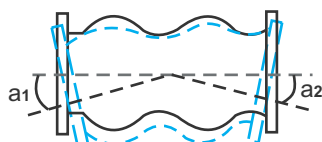
Schematic diagram of displacement and deflection



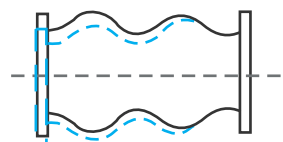
Axial Deflection



Axial Stretch



Angular Deflection



Lateral Displacement