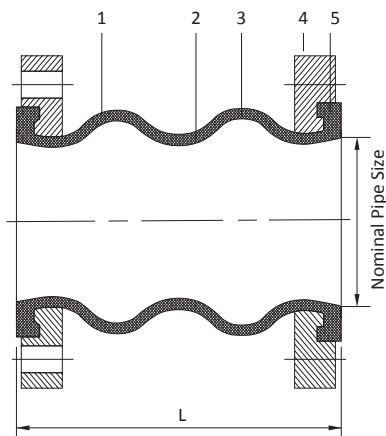


Twin Sphere Rubber Expansion Joints



Parts List & Materials

No.	Parts Name	Materials
1	Cover	EPDM
2	Reinforcing Fabric	Nylon
3	Tube	EPDM
4	Retain Rings	Steel
5	Flange	Carbon Steel

Features

- Minimal axial dimensions
- Limited weight
- Low warping forces
- High-resistance to work
- High-capacity acoustic damping

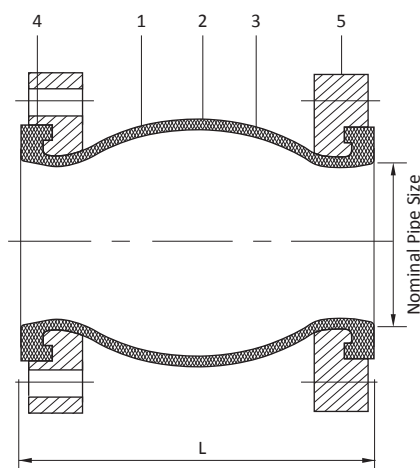
Product Specification

Product Specification			
Working Pressure (bar)	10	10	10
Burst Pressure (bar)	30	30	30
Vacuum (mmHg)	400	400	400

Main Dimensions

DN	NPS	Neutral L (mm)	Type A				Neutral L (mm)	Type B			
			Movements					Movements			
			Extension	Compression	Lateral	Angular (°)		Extension	Compression	Lateral	Angular (°)
40	1 ½"	175	30	50	45	35°	150	10	20	35°	30°
50	2"	175	30	50	45	35°	150	10	20	35°	30°
65	2 ½"	175	30	50	45	35°	150	10	20	35°	30°
80	3"	175	30	50	45	35°	150	10	20	35°	30°
100	4"	225	35	50	40	35°	200	15	30	35°	30°
125	5"	225	35	50	40	35°	200	15	30	35°	30°
150	6"	225	35	50	40	35°	200	15	30	35°	30°
200	8"	325	35	50	35	30°	200	20	40	30°	30°
250	10"	325	35	60	35	30°	200	20	40	30°	30°
300	12"	325	35	60	35	30°	200	20	40	30°	30°
350	14"	-	-	-	-	-	225	20	40	-	30°
400	16"	-	-	-	-	-	225	20	40	-	30°
450	18"	-	-	-	-	-	225	25	45	-	30°
500	20"	-	-	-	-	-	260	25	45	-	30°
600	24"	-	-	-	-	-	260	25	45	-	30°

Single Sphere Expansion Joints



Parts List & Materials

No.	Parts Name	Materials
1	Cover	EPDM
2	Reinforcing Fabric	Nylon
3	Tube	EPDM
4	Retain Rings	Steel
5	Flange	Carbon Steel

Features

- Minimal axial dimensions
- Limited weight
- Low warping forces
- High-resistance to work
- High-capacity acoustic damping

Product Specification

	10	16	25
Working Pressure (bar)	10	16	25
Burst Pressure (bar)	30	48	55
Vacuum (mmHg)	400	650	750

Main Dimensions

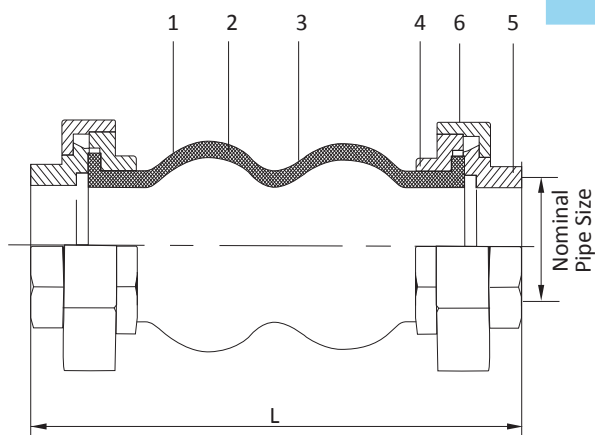
GB										ANSI 150												
DN	NPS	Length L (mm)		No. of Bolt N	Bolt Hole Dia. Center Circle D0 (mm)	Bolt Hole Dia. Center Circle D1 (mm)	Axial Displacement (mm)		Lateral Displacement (mm)	Angle of deflection (a1+a2)	DN	NPS	Length L (mm)		No. of Bolt N	Bolt Hole Dia. Center Circle D0 (mm)	Bolt Hole Dia. Center Circle D1 (mm)	Axial Displacement (mm)		Lateral Displacement (mm)	Angle of deflection (a1+a2)	
		Stretch	Compression				Stretch	Compression														
32	1 1/4"	95		4	17.5	100	6	9	9	15°	25	1 1/4"	152	130	14	4	16	79.4	+9.5	-13	±13	±15°
40	1 1/2"	95		4	17.5	110	6	10	9	15°	32	1 1/2"	152	130	16	4	16	89	+9.5	-13	±13	±15°
50	2"	105		4	17.5	125	7	10	10	15°	40	2"	152	130	16	4	16	98.5	+9.5	-13	±13	±15°
65	2 1/2"	115		4	17.5	145	7	13	11	15°	50	2 1/2"	152	130	16	4	19	121	+9.5	-13	±13	±15°
80	3"	135	130	8	17.5	160	8	15	12	15°	65	3"	152	130	18	4	19	139.5	+9.5	-13	±13	±15°
100	4"	150	135	8	17.5	180	10	19	13	15°	80	4"	152	130	18	4	19	153	+9.5	-13	±13	±15°
125	5"	165	160	8	17.5	210	12	19	14	15°	100	5"	152	130	18	8	19	190	+9.5	-16	±13	±15°
150	6"	180	185	8	22	240	12	20	22	15°	125	6"	152	130	20	8	22.5	216	+9.5	-16	±13	±15°
200	8"	190	200	8	22	295	16	25	22	15°	150	8"	152	130	22	8	22.5	242	+9.5	-16	±13	±15°
250	10"	230	240	12	22	350	16	25	22	15°	200	10"	152	130	22	8	22.5	298	+9.5	-16	±13	±15°
300	12"	245	260	12	22	400	16	25	22	15°	250	12"	152	130	24	12	25.5	362	+13	-16	±13	±15°
350	14"	265		16	26	460	16	25	22	15°	300	14"	203	130	24	12	25.5	432	+13	-19	±19	±15°
400	16"	265		16	26	515	16	25	22	15°	350	16"	203	200	26	12	28.5	476	+13	-19	±19	±15°
450	18"	265		20	26	565	16	25	22	15°	400	18"	203	200	28	16	28.5	540	+13	-19	±19	±15°
500	20"	265		20	30	620	16	25	22	15°	450	20"	203	200	30	16	32	578	+13	-19	±19	±15°
600	24"	265		20	26	725	16	25	22	15°	500	24"	203	200	30	20	32	34	+13	-19	±19	±15°
700	28"	260		24	30	810	16	25	22	10°	600	28"	254	260	32	20	35	749.5	+13	-19	±19	±15°
800	32"	260		24	30	920	16	25	22	10°	800	32"	254	260	36	24	30	920	+13	-19	±19	±15°
900	36"	260		24	30	1020	16	25	22	10°												
1000	400"	260		28	30	1120	16	25	22	10°												

Union Type Expansion Joints



Parts List & Materials

No.	Parts Name	Materials
1	Cover	EPDM
2	Reinforcing Fabric	Nylon
3	Tube	EPDM
4	Union Flange	Steel
5	Union Nut	Carbon Steel
6	Union Screw	Carbon Steel



Features

- Minimal axial dimensions
- Limited weight
- Low warping forces
- High-resistance to work
- High-capacity acoustic damping

Product Specification

Product Specification		
Working Pressure (bar)	10	16
Burst Pressure (bar)	30	48
Vacuum (mmHg)	400	650

Main Dimensions

DN	NPS	Neutral L (mm)	Movements			
			Extension	Compression	Lateral	Angular (°)
15	½"	200	5-6	22	22	45°
20	¾"	200	5-6	22	22	45°
25	1"	200	5-6	22	22	45°
32	1 ½"	200	5-6	22	22	45°
40	1 ½"	200	5-6	22	22	45°
50	2"	200	5-6	22	22	45°
65	2 ½"	265	8-10	24	24	45°
80	3"	285	8-10	24	24	45°