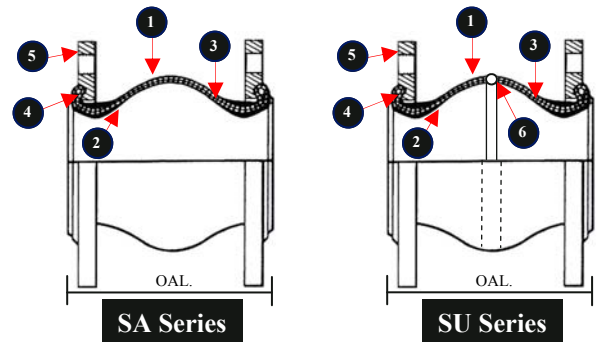


Single Sphere Rubber Expansion Joint

Type SA100 & SU100

Nominal Pipe		Length OAL (inch)	Axial (inch) Compression	Axial (inch) Elongation	Lateral (inch) Movement	Angular Movement 15°
Size ID (mm)	Size ID (inch)					
25	1	95	8	4	8	15°
32	1-1/4	95	8	4	8	15°
40	1-1/2	95	8	4	8	15°
50	2	105	8	6	8	15°
65	2-1/2	115	12	6	10	15°
80	3	130	12	6	10	15°
100	4	135	18	10	12	15°
125	5	170	18	10	12	15°
150	6	180	18	10	12	15°
200	8	205	25	14	22	15°
250	10	240	25	14	22	15°
300	12	260	25	14	22	15°
350	14	265	25	16	22	15°
400	16	265	25	16	22	15°
450	18	265	25	16	22	15°
500	20	265	25	16	22	15°
600	24	254	19	13	19	15°
700	28	254	19	13	19	15°



Item	Construction	Material
1	Tube	Synthetic Rubber ⁽¹⁾
2	Cover	Synthetic Rubber ⁽¹⁾
3	Reinforcing Fabric	Synthetic Fiber Cord
4	Reinforcing Wire	Carbon Steel
5	End Flanged ⁽²⁾	SS41 ⁽³⁾
6	Reinforcing Ring	Carbon Steel

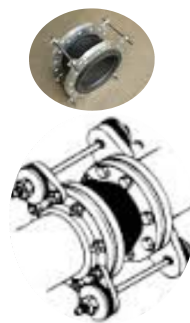
- (1) Rubber Standard : EDPM, CR, NBR
 (2) Flanged Drilling : JIS 10K, ANSI1150, PN10/16
 (3) Optional : SS304, SS316

Type SA101 & SU101

Nominal Pipe		Length OAL (inch)	Axial (inch) Compression	Axial (inch) Elongation	Lateral (inch) Movement	Angular Movement 15°
Size ID (mm)	Size ID (inch)					
25	1	6	1/2	3/8	1/2	15°
32	1-1/4	6	1/2	3/8	1/2	15°
40	1-1/2	6	1/2	3/8	1/2	15°
50	2	6	1/2	3/8	1/2	15°
65	2-1/2	6	1/2	3/8	1/2	15°
80	3	6	1/2	3/8	1/2	15°
100	4	6	5/8	3/8	1/2	15°
125	5	6	5/8	3/8	1/2	15°
150	6	6	5/8	3/8	1/2	15°
200	8	6	5/8	3/8	1/2	15°
250	10	8	5/8	3/8	1/2	15°
300	12	8	3/4	1/2	3/4	15°
350	14	8	3/4	1/2	3/4	15°
400	16	8	3/4	1/2	3/4	15°
450	18	8	3/4	1/2	3/4	15°
500	20	8	3/4	1/2	3/4	15°
600	24	10	3/4	1/2	3/4	15°
700	28	10	3/4	1/2	3/4	15°

Operating Conditions

Size ID	1" - 12"	14" - 28"
Working Pressure SA Series	16 bar	8 bar
Working Pressure SU Series	20 bar	10 bar
Burst Pressure	60 bar	24 bar
Vacuum Rating SA Series	650 mm/Hg	
Vacuum Rating SU Series	750 mm/Hg	
Working Temp.	-20° to +100° C	



Control units assemblies should be set at the maximum allowable expansion and/or contraction of the joint and will absorb the static pressure thrust developed at the expansion joint. When used in this manner, they are an **additional safety factor (safety device)** minimizing possible failure of the expansion joint and possible damage to the equipment. Control units will adequately protect the joints, but the user should be sure that pipe flange strength is sufficient to withstand total force that will be encountered.

WARNING :

CONTROL UNITS **MUST BE USED TO PROTECT RUBBER EXPANSION JOINTS FROM EXCESSIVE MOVEMENT IF PIPING IS NOT PROPERLY ANCHORED**

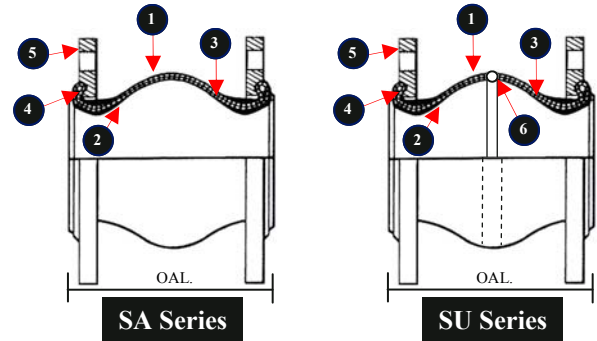


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Single Sphere Rubber Expansion Joint

Type SA103 & SU103

Nominal Pipe		Length OAL (mm)	Axial (mm) Compression	Axial (mm) Elongation	Lateral (mm) Movement	Angular Movement
Size ID (mm)	Size ID (inch)					
25	1	130	12	9	12	15°
32	1-1/4	130	12	9	12	15°
40	1-1/2	130	12	9	12	15°
50	2	130	12	9	12	15°
65	2-1/2	130	12	9	12	15°
80	3	130	12	9	12	15°
100	4	130	14	9	14	15°
125	5	130	14	9	14	15°
150	6	130	14	9	14	15°
200	8	130	14	9	14	15°
250	10	130	14	9	14	15°
300	12	130	16	9	16	15°



Item	Construction	Material
1	Tube	Synthetic Rubber ⁽¹⁾
2	Cover	Synthetic Rubber ⁽¹⁾
3	Reinforcing Fabric	Synthetic Fiber Cord
4	Reinforcing Wire	Carbon Steel
5	End Flanged ⁽²⁾	SS41 ⁽³⁾
6	Reinforcing Ring	Carbon Steel

- (1) Rubber Standard : EDPM, CR, NBR
 (2) Flanged Drilling : JIS 10K, ANSI1150, PN10/16
 (3) Optional : SS304, SS316

WARNING :

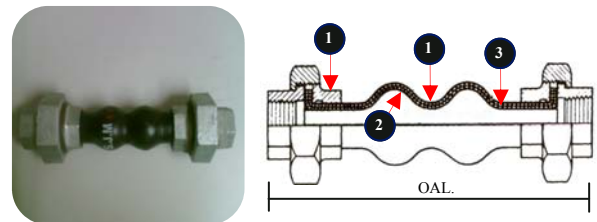
CONTROL UNITS **MUST BE** USED TO PROTECT RUBBER EXPANSION JOINTS FROM EXCESSIVE MOVEMENT IF PIPING IS NOT PROPERLY ANCHORED

Double Sphere Rubber Expansion Joint

Type UA200 - Union Thread Ends

Nominal Pipe		Length OAL (inch)	Axial (mm) Compression	Axial (mm) Elongation	Lateral (mm) Movement	Angular Movement
Size ID (mm)	Size ID (inch)					
15	1/2	203	22	6	22	30°
20	3/4	203	22	6	22	30°
25	1	203	22	6	22	25°
32	1-1/4	203	22	6	22	25°
40	1-1/2	203	22	6	22	20°
50	2	203	22	6	22	15°
65	2-1/2	203	22	6	22	12°
80	3	203	22	6	22	10°

Size ID	1" - 3"	Operating Conditions
Working Pressure SA Series	10 bar	
Burst Pressure	50 bar	
Vacuum Rating SA Series	400 mm/Hg	
Working Temp.	-20° to +100°C	



Item	Construction	Material
1	Tube	Synthetic Rubber ⁽¹⁾
2	Cover	Synthetic Rubber ⁽¹⁾
3	Reinforcing Fabric	Synthetic Fiber Cord
4	Union Thread Ends	FCD40

- (1) Rubber Standard : EDPM, CR, NBR



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