

Metallic Expansion Joints

EXPANSION JOINTS

Expansion joints are used mainly to absorb dimensional changes caused by thermal movements of a pipe-line. They consist of bellows formed from a thin walled stainless steel tube.

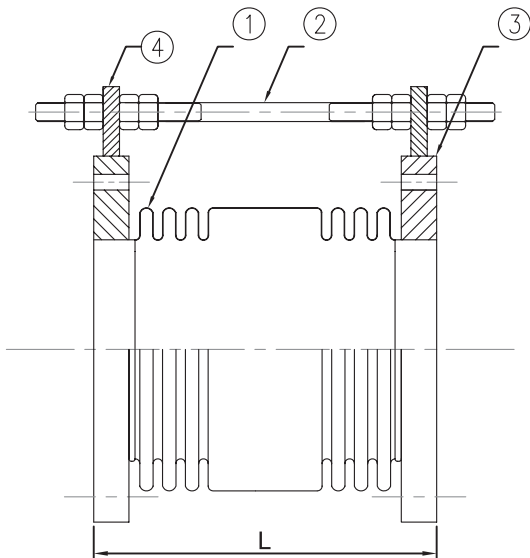
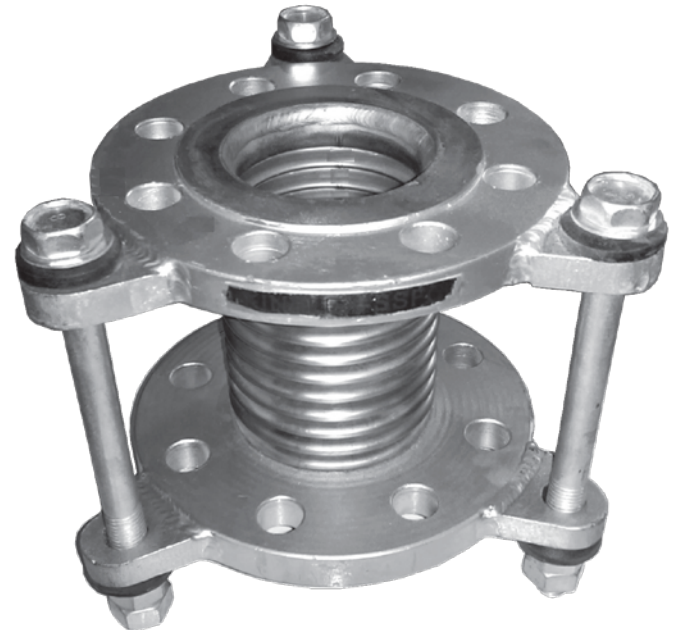
Bellows expansion joints are preferred to other methods of absorbing pipe movements such as pipe loops and slip-type joints. Pipe loops are wasteful of space while slip joints require regular maintenance. Additionally loops and slip joints are capable of absorbing movement that is in line with the pipe only. Bellows joints require no maintenance and allow many types of movement in a compact space.

Bellows expansion joints are available in flanged, weld, grooved or threaded ends.

Internal liners to prevent erosion of the inner surface of the bellows and the induced vibrations by the flowing fluid are available.

Optional features include tie rods to restrain pressure thrust and shrouds to protect the outer surface of the bellows from damage in buried installation.

Consult Kinetics for proper anchoring and guiding of pipe with expansion joints to prevent extending or buckling of joints due to pressure thrusts.



Model - SSEJ-500N / 500H - WITHOUT TIE RODS

Model - SSEJ-500N-SG / 500H-SG -
WITH OPTIONAL TIE RODS

FLANGED ENDS - ANSI ASA 150 / 300 OR
BS4504 PN16 / PN25 / PN40

WORKING PRESSURE : 16 bar / 25 bar / 40 bar

WORKING TEMPERATURE : -50°C to + 450°C

AXIAL & LATERAL MOVEMENT : + / -10mm

STANDARD FINISH

FLANGES / GUSSETS : GALVO PAINT

CONTROL ROD & HARDWARE : ZINC PLATED

OTHER FINISHES ON REQUEST

NOMINAL BORE	TOTAL LENGTH (L) (+/-5mm)	BELLOWS (PN16 / PN25 / PN40)				
		CORRS			PLY	PLY
		SSEJ 500N	SSEJ 500H	SSEJ 500H	16/25 BAR	40 BAR
mm		16 BAR	25 BAR	40 BAR		
40	150	16	16	16	2	3
50	150	16	16	13	2	3
65	150	12	12	12	2	3
80	150	12	12	11	2	3
100	150	11	11	10	2	3
125	150	11	11	10	2	3
150	150	11	11	10	2	3
200	200	12	12	10	2	3
250	200	12	12	10	2	3
300	200	12	12	10	2	3
350	230	8	8	7	2	3
400	230	8	8	7	2	3
450	230	8	8	7	3	3
500	230	6	6	6	3	3
600	230	6	6	6	3	3

LARGER SIZES ON REQUEST

CONSTRUCTION

ITEM	PARTS	MATERIAL
1	BELLOWS	SST304
2	TIE RODS	CARBON STEEL
3	FLANGE	CARBON STEEL
4	GUSSET	CARBON STEEL
OTHER MATERIALS ON REQUEST		