

SS BELLOW MULTI-PLY TYPE EXPANSION JOINTS

Sr. No.	Description	Quantity
1.	SS Bellow Type Expansion Joints 10 Inch	06 Nos.
2.	Welding Neck Raised Face Flanges Matching Flange with 10 inch SS Bellow Type Expansion Joint	12 Nos.
3.	SS Bellow Type Expansion Joints 8 inch	2 Nos.
4.	Welding Neck Raised Face Flanges Matching flanges with 8 inch SS Bellow Type Expansion Joint	04 Nos.
Detailed Technical Specifications attached at Page-03 & 04		

Technical Specification Sheet**Title: SS Bellow Multiplied Type Expansion Joint with Butt welded (BW) Ends****1. Design Specification for Expansion Joints**

- i. Size: 10 inch (DN250)
- ii. Design Pressure: 20 bar
- iii. Working Pressure: 12 bar
- iv. Type of pressure: Constant / ~~Intermittent~~ / Shock / Pulsating
- v. Hydrostatic test pressure: 24 bar
- vi. Effective area: 646.9 cm²
- vii. Material of bellow: SS 321 (seamless)
- viii. Material of pipe Ends: SS304L
- ix. Seamless schedule: 40
- x. Working fluid: Industrial water
- xi. Design Temperature: 90°C
- xii. Face to Face length (Total length): 440mm
- xiii. Cycle life: 5000, Absolute spring
 - a. Axial compression: ½"
 - b. Axial Extension: ½"
 - c. Lateral deflection: ½"
- xiv. Rate: 2042 N/mm
- xv. Axial movement: +10/-40 mm
- xvi. Inspection and testing
 - a. Hydrostatic test with certificates
 - b. Material test certificates
 - c. Dye penetration test reports
 - d. Radiography test reports

2. Welding Neck raised face flanges (Matching Flanges)

- i. Size: 10 inch (DN250) *SS Bellow Type expansion joint.*
- ii. Material: SS 304L
- iii. 300lb class, ANSI B16.5

3. Design Specification for Expansion Joints *Bellow type*

- i. Size: 8 inch (DN200)
- ii. Design Pressure: 20 bar
- iii. Working Pressure: 12 bar
- iv. Type of pressure: Constant / ~~Intermittent~~ / Shock / Pulsating
- v. Hydrostatic test pressure: 24 bar
- vi. Material of bellow: SS 321 (seamless)
- vii. Material of pipe Ends: SS304L
- viii. Seamless schedule: 40
- ix. Working fluid: Industrial water
- x. Design Temperature: 90°C
- xi. Face to Face length (Total length): 440mm
- xii. Cycle life: 5000, Absolute spring
 - a. Axial compression: ½"

	b. Axial Extension: 1/2"
	c. Lateral deflection: 1/2"
xiii.	Rate: 2042 N/mm
xiv.	Axial movement: +10/-40 mm
xv.	Inspection and testing
	a. Hydrostatic test with certificates
	b. Material test certificates
	c. Dye penetration test reports
	d. Radiography test reports
4.	<u>Welding Neck raised face flanges (Matching Flanges)</u>
i.	Size: 08 inch (DN200) <i>Bellow type expansion joint</i>
ii.	Material: SS 304L
iii.	300lb class, ANSI B16.5

1. The supplier shall furnish following with the commercial offer:

- i. Name of manufacturer and country of origin
- ii. Complete technical data sheet
- iii. Relevant drawing and certificates
- iv. Relevant literature and brochures etc.