

03. TECHNICAL SPECIFICATIONS

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The bidder shall indicate whether the required specifications are met by them by marking (Yes) if it meets the requirements/comply and (No) if it is not, in front of each requirement/specification in the right-hand corner of each item. Variations and/or deviations from specification, if any, shall be illustrated clearly in detail. Complete technical specification details shall provide together with following format for each size valve separately.

Item No.	Description	Qty
1	6" Dia. Expansion Joints with Galvanized Tie rods, studs and nuts. Approx. length of 250 mm, Approx. minimum Compression of 64 mm, Approx. minimum Tension of 25 mm.	09
2	10" Dia. Expansion Joints with Galvanized Tie rods, studs and nuts. Approx. length of 375 mm, Approx. minimum Compression of 83 mm, Approx. minimum Tension of 25 mm.	14
3	12" Dia. Expansion Joints with Galvanized Tie rods, studs and nuts. Approx. length of 400 mm, Approx. minimum Compression of 80 mm, Approx. minimum Tension of 25 mm.	12
4	18" Dia. Expansion Joints with Galvanized Tie rods, studs and nuts. Approx. length of 450 mm, Approx. minimum Compression of 76 mm, Approx. minimum Tension of 25 mm.	04

General Conditions

- 3.1.1 Use for installing pump suction, delivery pipelines for transferring of the petroleum refined product of Gasoline.
- 3.1.2 Design pressure 275 Psi and design temperature 50 °C
- 3.1.3 Inner Hose should be 321 Stainless Steel.
- 3.1.4 Bellow material should be 321 Stainless Steel.
- 3.1.5 Tie rods, Stud bolts shall be ASTM A 193 Grade B7 and material for Nuts shall be ASTM A 194 Grade 2H.
- 3.1.6 Tie rods, Stud bolts and Nuts shall be hot dip galvanized as per ASTM A 153/A 153M
- 3.1.7 Flange Dimensions shall conform to ASME B 16.5
- 3.1.8 Flange Material shall conform to ASTM A 105, Class 150, Raised Face (RF), Serrated and shall be marked with the ASTM specification grade identification symbol and ASTM specification number.
- 3.1.9 Mill test certificates shall be provided in accordance with EN 10204 3.2 with Heat/Batch numbers or any other reference number marked on expansion joints as well as in the certificates to check once the items are delivered to CPSTL Kolonnawa with reference to the items against the Mill Certificate.
- 3.1.10 Hydro test certificates shall be provided with the expansion joints in accordance with EN 10204 Type 3.2.

3.1.11 03rd party inspectors should be one of the following institutions. Of Lloyds, S. G. S., Bureau Veritas & ABS.

3.1.12 Bidder should replace expansion joints found with manufacturing defects, free of charge within the performance bond validity period.

3.1.13 Literature should be supplied in English language along with the bid for the manufacturing process of the expansion joints

Signature of the Bidder: **Date:**.....

(Common Company Seal)