

J-11 ECCENTRIC REDUCING EXPANSION JOINTS

Specification #RV-J-11

PART 1 GENERAL

1.01 SUBMITTALS

- A. Submit product literature that includes information on the performance and operation of the joint, materials of construction, dimensions and weights, elastomer characteristics, and pressure ratings.
- B. Upon request, provide shop drawings that clearly identify the joint dimensions including all supplied accessories.

1.02 QUALITY ASSURANCE

- A. Supplier shall have at least ten (10) years experience in the manufacture of non-metallic expansion joints, and shall provide references and a list of installations upon request. Supplier shall be a member of the Fluid Sealing Association.

PART 2 PRODUCTS

2.01 ELASTOMERIC EXPANSION JOINTS

- A. The Expansion Joint shall have a rubber inner tube, a body constructed of multiple plies of fabric impregnated with synthetic rubber, and a protective outer cover of synthetic rubber to provide resistance to deterioration from weather and ozone. Special covers shall be applied when specified in the Purchase Order to resist weather, ozone, and corrosive fumes. Steel wire shall be imbedded in the body for additional strength.
- B. The temperature and chemical compatibility requirements, as specified in the Purchase Order shall determine the elastomer and fabric materials.

Class I - to 180° F: PGR, Neoprene, Hypalon or Buna-N, with Nylon or Polyester reinforcement.
Class II - to 250° F: Chlorobutyl, EPDM with polyester reinforcement.
Class III - to 400° F: Solid Viton®, with Kevlar® reinforcement.
- C. Flanges shall be constructed integrally with the body to resist stresses. Flanges shall be full-pattern so that gaskets are not necessary. Flanges shall be drilled to ANSI B16.5, Class 150#, or as specified in the Purchase Order. Reduction in flange size shall not exceed 20 degrees or one pipe size.
- D. The Expansion Joint shall be available with a single arch or multiple arches, in open or filled arch(s) construction, and with wide arch(s) as specified in the purchase order. Joint dimensions, movement, and spring rates for all variations shall follow Fluid Sealing Association guidelines, unless otherwise specified in the purchase order. Joint shall be manufactured in the USA.

2.02 FUNCTION

- A. The elastomer construction of the joint acts to absorb vibration, preventing it from being transmitted to the piping, as well as compensating for lateral deflection. The integral arch allows for axial compression and elongation of the joint, to compensate for expansion and contraction of the piping. The eccentric reduction of the joint allows the connection of 2 different sized pipe flanges.

2.03 MANUFACTURER

- A. All Expansion Joints shall be Redflex™ Type J-11 as manufactured by the Red Valve Company, Inc. of Carnegie, PA 15106 or approved equal.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Joint shall be installed in accordance with manufacturer's written Installation and Operation Manual and approved submittals.

3.02 MANUFACTURER'S CUSTOMER SERVICE

- A. Manufacturer's authorized representative shall be available for customer service during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the joint.
- B. Manufacturer shall also make customer service available directly from the factory in addition to authorized representatives for assistance during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the joint.