

REDFLEX™ SL-50 SLIP-ON EXPANSION JOINTS

Specification #RV-SL-50

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. Expansion Joints shall be designed for low-pressure applications not to exceed the rated working pressures for liquids, air, and solids conveying. The inside diameter shall have enlarged cuffed ends to slip over the specified pipe O.D. and to be secured with hose clamps. Manufacturer shall provide stainless steel hose clamps.
- D. The Expansion Joint shall have one integral arch, in either open arch or filled construction. 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.

2.03 MANUFACTURER

- A. All Vibration Pipe shall be Redflex™ Series SL-50 Slip-on Expansion Joints as manufactured by the Red Valve Company, Inc. of Carnegie, PA 15106, USA, 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.

REDFLEX™ SL-53 SLIP-ON EXPANSION JOINTS

Specification #RV-SL-53

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. Expansion Joints shall be designed for low-pressure applications not to exceed the rated working pressures for liquids, air, and solids conveying. The inside diameter shall have enlarged cuffed ends to slip over the specified pipe O.D. and to be secured with hose clamps. Manufacturer shall provide stainless steel hose clamps.
- D. The Expansion Joint shall have three integral arches, in either open arch or filled construction. 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.

2.03 MANUFACTURER

- A. All Vibration Pipe shall be Redflex™ Series SL-53 Slip-on Expansion Joints as manufactured by the Red Valve Company, Inc. of Carnegie, PA 15106, USA, 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.

REDFLEX™ SL-100 VIBRATION PIPE

Specification #RV-SL-100

PART 1 GENERAL

1.01 SUBMITTALS

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

1.02 QUALITY ASSURANCE

- A. Supplier shall have at least ten (10) years experience in the manufacture of rubber pipe, and shall provide references and a list of installations upon request.

PART 2 PRODUCTS

2.01 RUBBER VIBRATION PIPE

- A. The Rubber Pipe shall consist of an elastomer inner tube, a fabric reinforced body section with a helical wire reinforcement imbedded in the body from flange to flange along with woven wire imbedded laterally. The vibration pipe shall be covered with a synthetic rubber cover stock for protection against abrasion and gouging. Special covers shall be applied as specified on the purchase order.
- 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, and Hypalon with nylon or polyester reinforcement.

Class II - to 250° F: Chlorobutyl, EPDM with polyester reinforcement.

Class III - to 400° F: Solid Viton®, Teflon®-lined, with Kevlar® reinforcement.

- C. The SL-100 Pipe shall be designed for low pressure applications not to exceed 75 psi for liquids, air, and solids conveying. The inside diameter shall have enlarged cuffed ends to slip over schedule 40 pipe and to be secured with hose clamps. Manufacturer shall furnish stainless steel hose clamps.
- D. Control units shall be specified if the pipeline is not anchored to eliminate excessive elongation of the rubber pipe. Standard pipe dimensions, movement, and spring rates 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 pipe acts to absorb vibration, preventing it from being transmitted to the piping, as well as compensating for lateral deflection and absorbing shock from water hammer. The elastomer construction also reduces noise and offers superior abrasion resistance to alloy pipe.

2.03 MANUFACTURER

- A. All Vibration Pipes shall be Redflex™ Series SI-100 as manufactured by the Red Valve Company, Inc. of Carnegie, PA 15106, USA, or approved equal.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Pipe 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 pipe.
- 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 pipe.