



Handling and Installation of BARLOW Flanged Isolation Joints

Isolation Joints are designed for direct welding into the pipeline by qualified welders using approved procedures, please review the following notes before installation:

1. Handling

- 1.1 The isolation joints should be treated carefully during handling and transportation to prevent any mechanical damage or deformation
- 1.2 Clean all exposed surface
 - a. Any protective material or foreign material must be removed a distance of 1" to 1 ¼" from the weld ends, both internally and externally before welding. This includes any oil or other contaminating material that could affect welding
 - b. All foreign material and moisture must be removed before protective coating is applied (please refer to instructions provided by coating manufacturers)
 - c. Inspect bore for any foreign materials and clean if necessary

2. Overheating

- 2.1 Avoid excessive heating when welding in the isolation joint.
- 2.2 Protect bolts and insulating washers from weld spatter

3. Indications

- 3.1 Use a thermal indicating crayon (300 °F) or adequate thermocouple to verify the temperature on the body or the temperature near to the pipe stub
- 3.2 If the temperature approaches 300 °F cool the body using damp rags or compressed air
- 3.3 Stop welding or stress relieving until temperature is below 300 °F

4. Important Notes

- 4.1 Install BARLOW isolation joint as a unit, DO NOT DISMANTLE
- 4.2 Check stud nuts for tightness before applying coating, if loose contact factory
- 4.3 The joint's body is an isolator, so the welding earth connection must be located on the same side of the joint being welded. When switching sides make sure to move earthing electrical terminal to the same side the weld is made. This avoids damage to dielectric materials in the joint
- 4.4 The temperature limits on the body of the joint are required to protect the gaskets, isolating rings, sleeves and epoxy cured resin
- 4.5 Make sure that there are no stresses on the joint (both longitudinally and transversally)
- 4.6 There is no preferential installation direction in regards to the fluid direction. Joint can be installed horizontally or vertically
- 4.7 Joints should be stored in a clean and dry environment
- 4.8 Joints may be shipped, wrapped in VCI (Volatile Corrosion Inhibitors), and/or coated with a corrosion inhibitor such as "RUST VETO 377". Care should be taken to remove wrapping and coating carefully before joints are used.



IMAC Systems Inc

90 Main Street, PO Box 1605 • Tullytown, PA. 19007
 1-800-955-4GAS • Tel: 215 946-2200 • Fax: 215 943-2984
 sales@imacsystems.com • www.imacsystems.com