

**Specification for:**  
**Monolithic Isolating Joint**

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**1. General**

This specification specifies the general requirements for the Isolating Joint (I-J hereunder) to be installed on a pipeline carrier of hydrocarbons products (oils), natural gas, LPG, and other liquid hazardous materials.

**2. Scope**

- a) This specification defines the requirements for the supply of the Isolating Joint to be installed on the pipeline.
- b) Requirements and Quantities are detailed in App. "A".

**3. Requirements for the product**

- a) Installation conditions specified hereunder to be detailed in the BOM specifically for each P/O.
  - 1) Product to be transported
  - 2) Temperature of the transported material (160°F or 70°C is standard)
  - 3) ANSI rating
  - 4) Grade of pipe material
- b) Additional X-ray, ultrasonic and dye penetrate tests upon demand (electrical and hydrostatic testing is standard)
- c) Dimensions (to be detailed in the BOM):
  - 1) Diameter of pipe
  - 2) Wall thickness
- d) Spark gap for hazardous areas
  - 1) Type of product to be EX – explosion proof
  - 2) DHEN type for hazardous areas EXFS 100 or equivalent (Limitation for connecting cable length 30 cm)
  - 3) DHEN type EXFS 100 KU or equivalent (for longer length of connecting cable)
- e) Mechanical Connections for cable lugs as an option (instead of thermite welding connection or Pin Brazing)

**4. Standards and applicable documents**

- a) The I-J will conform to NACE SP0286-2007 Electrical Isolation of Cathodically Protected Pipelines, especially section 7
- b) Manufacturer data sheets

**5. Marking of delivered items**

- a) Shipped product and packing shall be suitably marked for identification by P/O number, including manufacturing year and month, manufacturer identification.
- b) Shipping documents will include specification reference identification.

**6. Warranty**

In accordance with the manufacturer catalogue data sheet.

**Appendix A:**

Bill of Materials:

to be filled in by purchaser

Diameter of pipe according to bill of quantities	
Wall thickness according to bill of quantities	
ANSI rating according to bill of quantities	
Type of product transferred quantities	
Temp. of transported material	
Grade of pipe material according to bill of	
Additional testing (optional, by request) X-ray, etc.	
Spark gap, surge arrestor according to bill of	
Connections for cable lug (optional)	

