

Alternative to Flanged Isolation Kits

Isolation Joints prevent metal to metal contact across the joint; and this protection is long term and maintenance free. Custom built to your specifications, Isolation Joints are manufactured to any diameter or wall thickness and are through-bored to allow for the passage of pigs and scrapers; and each Isolation Joint is serialized, heat code identified and traceable.

Product Features

- Designed and Manufactured to ASME design codes (B31.4, B31.8, BPVC)
- Engineered to Order: custom built to your specifications
- Same Metallurgy, yield strength, WT as matching pipe
- Solid one-piece butt-weld forged body construction
- Simple Installation: one continuous weld each side of the pipe
- Factory Assembled (Eliminates field assembly)
- Fully tested electrically, hydro-tested, and weld tested
- Coated internally/externally w/ non-conductive two-part epoxy resin
- Hub Material- SA350LF2 CL1/A694-F52. (Other materials available)
- Higher yield up to F70 available
- Each insulated joint is traceable, serialized, heat code identified



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TUBE TURNS

Monolithic Insulated Joints

Stray electrical currents and unwanted electrical potentials come to the pipeline from overhead power lines, parallel pipelines and other sources of DC.

Tube Turns insulated joints are prefabricated, one-piece unions of butt-weld, forged body construction used to reduce the rate of corrosion in pipelines by providing electrical resistance between pipeline sections and adjoining structures.

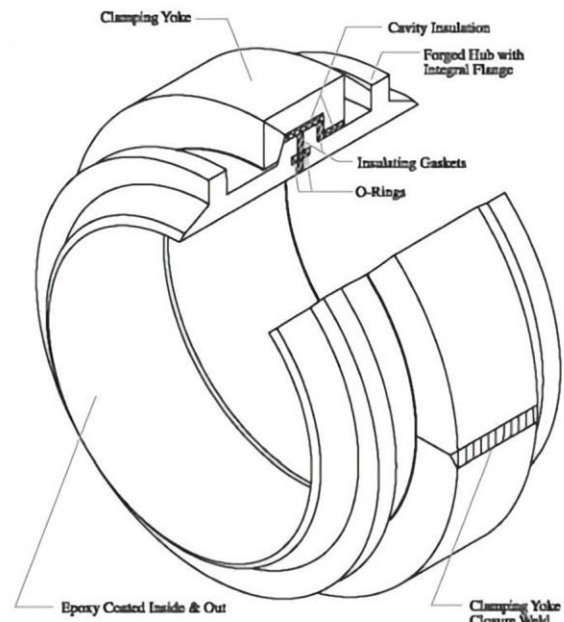
US made at our ASME facility in Louisville, KY
Made with US steel; Complies With "Buy America" Provisions
Standard 8 week delivery after approvals





Engineered-To-Order. Custom built to your design conditions

W Series Monolithic insulated Joint



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FR4 Insulator Rated for up to 15,000 Volts

Electrical Testing:

- Resistance test (std) – resistance @ 1k VDC (std is > 25 megohms)
- Dielectric test (to meas.current leakage): 5kV AC (50 Hz) 1 min. (max leakage 5mA)

Design Codes and Standards

- ASME B31.4
- ASME B31.8
- ASME BPVC Sec VIII Div. 1 and 2
- ASME BPVC Sec II Materials
- ASME BPVC Sec V NDE
- ASME Sec IX Welding
- ASTM applicable material standards (A694)

Size and Ratings: Size 2 – 42-inch – ASME CL 150 - 900

- ASME CL150 (WP = 285 psi) - Hydro-tested to 450 psi
- ASME CL300 (WP = 740 psi) - Hydro tested to 1125 psi
- ASME CL600 (WP = 1480 psi) - Hydro tested to 2225 psi
- ASME CL900 (WP = 2220 psi) - Hydro tested to 3350 psi

Designed per ASME B31.4, B31.8, ASME Sec VIII Div 1

*Design Factor= (0.50) or customer spec

Materials:

Hubs: Dual Certified SA350LF2CL1 or SA105 Combined with A694(F52)

Pipe (2" thru 6") SA106 Gr B/C 52,000 PSI.

Higher Yield Material Available: F60, F65, or F70

%CE </= .45% (to ensure a good quality weld)



Applications

- Designed to electrically isolate pipeline segments
- Onshore, offshore, buried, above ground or sub-sea; in "sweet" (non-corrosive) or "sour" corrosive applications
- High pressure gas transmission service
- Gas gathering systems
- Liquid pipelines of all types
- Gas distribution and branch lines
- Installed on inlet and outlet pipes to isolate meters, tanks, pump and compressor stations from the main Cathodic Protection system

Data Package Includes:

- Hydrostatic test report (1.5 x design pressure)
- Electrical test report (resistance & withstand)
- Weld test report (UT of closure welds/ ends)
- Certified MTRs for all pressure retaining components
- Approval Drwg– when requested (includes SN, Heat #, Size, Class, Materials, Hydro-test pressure, Insulator, Coating)
- Design calculations (when requested)

coating per the customer's specification.

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