

## INNOVATIVE ENGINEERING FOR CORROSION PROTECTION

ElectroFlange™ Joints provide electrical isolation for gas, water and petroleum pipelines; providing operation and maintenance cost savings. They do not require maintenance and can eliminate vault expense. GPT offers the best solutions for preventing corrosion in all industries including: onshore and offshore mains, petroleum refinery complex, chemical plants, waterworks, wastewater, gas transmission and gas distribution systems.



### EXTRA CORROSION PROTECTION

All ElectroFlange™ Joints are wrapped with an impermeable barrier protecting nuts, bolts, washers and the flange cavity. The cavity is filled with wax to prevent fill intrusion and damage to the isolation gasket.

### ELECTROFLANGE PRIMARY FEATURES AND BENEFITS INCLUDE

- » *Pre-Installed Isolation Gasket - Proper gasket compression and bolt load consistency are achieved*
- » *Pre-Installed Isolation Washers - Improper installation is avoided preventing short circuit via operator error*
- » *Outstanding electrical isolation properties for cathodic protection*
- » *Coated Bolts - Redundant corrosion protection for bolted assembly*
- » *Pre-Wrapped Joint - Encapsulates entire flange including bolt assembly providing corrosion protection to all critical parts*

### ELIMINATE FIELD ASSEMBLY

The ElectroFlange™ Isolation fitting is completely factory assembled and tested. There are no gaskets, nuts, bolts, sleeves or washers to handle during installation and consequently no fluid leaks or electrical short circuits due to improper field assembly.

Standard Tests Include:

- » 100% Hydrostatic Pressure & Electrical Tests
- » 100% Ultrasonic of Welds
- » 100% Magnetic Particle of Welds
- » 100% Dye Penetrant of Welds

## CONSTRUCTION

### Direct Bury

- B7 Bolts coated with Xylan 1010
- 2H Nuts with Xylan 1010 coating
- Single HCS Washer with X37 coating
- Electrical continuity design for bolting
- Dual seal G10 LineBacker® isolation gasket
- G10 sleeves
- Fusion bonded epoxy coating
- Proprietary isolation flange filler
- Wax taped flange protection

### Vaulted

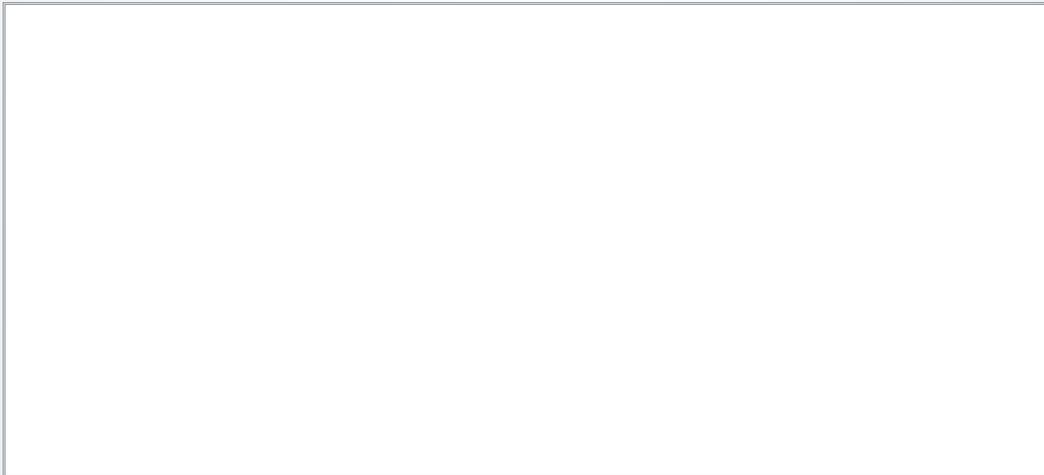
- B7 Bolts coated with Xylan 1010
- 2H Nuts with Xylan 1010 coating
- Dual HCS Washer with X37 coating
- Fusion bonded epoxy coating
- G10 sleeve
- Dual seal G10 LineBacker® isolation gasket



Typical Gas Line Installation in the United States

**Note:** The ElectroFlange can be custom coated with polyurethane, epoxy, or tape coating system. Concrete coating available for water and sewer applications.

All ElectroFlange Joints are 100% Hydrostatically tested to 1.5 times rated operating pressure.



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