

# Risers and Transitions: Anodeless Risers (continued)

## Available Options

### Riser Style

- Pre-bent
- Pre-bent w/extended length of PE pipe
- Straight
- Straight w/fused pup
- Flexible
- Steel x flex

### Outlet options

- Threaded
- Beveled for welding
- Flanged
- By-pass outlets

### Pipe coatings

- Fusion bonded epoxy
- Fusion bonded polyester

### Custom dimensions

- Custom vertical dimensions
- Custom horizontal dimensions
- Inlet pe pipe ½" CTS to 12" IPS
- Outlet steel size ½" NPT to 12" NPT
- PE pigtail length from 6" to 250'

### Other options

- Tracer wire connectors
- Factory installed gas valve
- Factory installed mechanical connector
- Sch 40 and Sch 80 pipe nipple
- Shear protection sleeves
- UV protection sleeves
- Mounting brackets, stakes, and wall brackets
- Special packaging and labeling
- Metric sizes available
- Sch 40 and thin-wall tubing for casing
- Pressure seal on horizontal end

## Testing and Compliance

All GF Central Plastics risers meet or exceed the following applicable standards and are subjected to an extensive testing program to ensure consistent performance in the field that is safe, robust and reliable.

- DOT Code of Federal Regulations, Title 49, Part 192
- ASTM D2513 - Standard Specification for Thermoplastic gas pressure pipe, tubing, and fittings qualified Category 1 requirements
  - ASTM D1598 - Test Method for Time to Failure of plastic pipe under constant internal pressure (Sustained Pressure Test)
  - ASTM D1599 - Test Method for resistance to short term hydraulic pressure of plastic pipe, tubing and fittings (Quick Burst)
  - ASTM D638 - Test Method for Tensile Testing
- ASTM F1973 - Standard Specification for Factory Assembled Anodeless Risers and Transition Fittings.
  - ASTM E515 - Test Method for Leak Testing
  - ASTM D638 - Test Method for Tensile Testing
  - ASTM F1588 - Test Method Constance Tensile Load Test- ASTM F1973, 7.4 - Test Method for Temperature Cycling Test
- Complies with CSA B137.4
- Listed with IAPMO/UPC (where applicable)

## Technical Specifications

- Steel gas carrier - ASTM A53/API5L
- Pipe threads - ANSI B1.20.1
- Steel compression ring - ASTM A513
- Buna O-ring seal - ASTM D2000
- Protective coating

All parts are protected with an electrostatically applied fusion-bonded epoxy powder coating specifically designed for the exterior of gas petroleum pipelines.

- 8 mil minimum thickness
- AGA 49 grey
- Cathodic disbondment testing per ASTM G8
- Salt spray testing per ASTM B117
- Impact resistance testing per ASTM G14