High Pressure Fiberglass Line Pipe Product Guide
For Oil & Gas Applications
Applications: Suitable for all, sour or mildly sour, oil field service applications with limited CO₂ content.

Fiberglass: Product is rapidly deployed and is ideal for high integrity applications, including in-service repair,
# Product Series

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<th>Product Series</th>
<th>Applications</th>
<th>Features</th>
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<tr>
<td><strong>Star Anhydride - ACT or PGT</strong></td>
<td>Suitable for all, sweet or mildly sour, oil field services with limited $CO_2$ content</td>
<td>Minimum 20 year service life at full rating based on 150°F design temperature and nominal (standard) or minimum (API) wall thickness</td>
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<tr>
<td><strong>Star Anhydride - SSS-HP</strong></td>
<td>Designed for transfer of high volumes of fluid at high pressure. Fast assembly joint.</td>
<td>Full pressure rating up to 150°F</td>
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<tr>
<td><strong>Centron Anhydride - CEN</strong></td>
<td>Low pressure, fast-assembly, flowline product for general service piping needs; larger than normal ID</td>
<td>Not intended for gas service. Sulfur-cured O-ring not recommended for sour service</td>
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<tr>
<td><strong>Centron Anhydride - SP, SPH, SPH-HP</strong></td>
<td>Proprietary joint designs for fast, reliable assembly</td>
<td>Position-based thread assembly. Suitable for gas service</td>
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<td><strong>Star Aliphatic Amine - ACT</strong></td>
<td>Designed for fast, reliable assembly</td>
<td>Position-based thread assembly. Suitable for gas service</td>
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<tr>
<td><strong>Star Aliphatic Amine - SSS</strong></td>
<td>Designed for high volume lines at high temperatures; fast assembly joint well suited for long lines</td>
<td>Standard size O-ring used. A variety of elastomer materials are available</td>
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<tr>
<td><strong>Centron Aromatic Amine - CEN</strong></td>
<td>Provided for transfer of high temperature, more corrosive fluid handling lines</td>
<td>Temperature performance of O-ring material should be considered during selection</td>
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<td><strong>Centron Aromatic Amine - SP, SPH, SPH-HP</strong></td>
<td>Combines characteristics of double-seal joint, high pressure and high temperature designs</td>
<td>Highly regarded product for wide variety of upper-end services up to 212°F</td>
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<tr>
<td><strong>Star Aromatic Amine - ACT, PGT</strong></td>
<td>Product of choice for severe service, regulated systems</td>
<td>Premium product line providing highest allowable operating temperature</td>
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<td><strong>Star Aromatic Amine - SSS-HP</strong></td>
<td>Provide high flow capacity for hot, corrosive fluids in characteristically large systems</td>
<td>Product line expands the range of services covered by fiberglass pipe</td>
</tr>
<tr>
<td><strong>Fiberspar (E), (X) and (XT)</strong></td>
<td>Product is rapidly deployed and is installed by Certified Installers thoroughly trained and tested by Fiber Glass Systems personnel</td>
<td>This is not thermoplastic pipe made stronger, it is GRE pipe made spoolable</td>
</tr>
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**Applications:** Suitable for all, sweet or mildly sour, oil field services with limited $CO_2$ content

**Features:** Minimum 20 year service life at full rating based on 150°F design temperature and nominal (standard) or minimum (API) wall thickness

**Applications:** Designed for transfer of high volumes of fluid at high pressure. Fast assembly joint.

**Features:** Full pressure rating up to 150°F

**Applications:** Low pressure, fast-assembly, flowline product for general service piping needs; larger than normal ID

**Features:** Not intended for gas service. Sulfur-cured O-ring not recommended for sour service

**Applications:** Proprietary joint designs for fast, reliable assembly

**Features:** Position-based thread assembly. Suitable for gas service

**Applications:** Designed for fast, reliable assembly

**Features:** Position-based thread assembly. Suitable for gas service

**Applications:** Designed for high volume lines at high temperatures; fast assembly joint well suited for long lines

**Features:** Standard size O-ring used. A variety of elastomer materials are available

**Applications:** Provided for transfer of high temperature, more corrosive fluid handling lines

**Features:** Temperature performance of O-ring material should be considered during selection

**Applications:** Combines characteristics of double-seal joint, high pressure and high temperature designs

**Features:** Highly regarded product for wide variety of upper-end services up to 212°F

**Applications:** Product of choice for severe service, regulated systems

**Features:** Premium product line providing highest allowable operating temperature

**Applications:** Provide high flow capacity for hot, corrosive fluids in characteristically large systems

**Features:** Product line expands the range of services covered by fiberglass pipe

**Applications:** Product is rapidly deployed and is installed by Certified Installers thoroughly trained and tested by Fiber Glass Systems personnel

**Features:** This is not thermoplastic pipe made stronger, it is GRE pipe made spoolable
Connections

**ACT**
Molded, 8 threads per inch using a graphite, ceramic and epoxy composite for high performance applications. Threads conform to API Standard 5B (14th Edition).

**PGT**
Ground threads produced with diamond-coated, profiled grinding wheels and numerical controlled grinding equipment. API conformance as described for ACT.

**SP**
Ground, round-form, 4 threads per inch threads providing a position-based seal, complemented with an o-ring seal.

**SPH, SPH-HP**
Ground, trapezoidal-form (buttress), 4 threads per inch threads providing a high strength, position-based seal, complemented with an o-ring seal.

**SSS, SSS-HP**
“STAR Super Seal” heavy-duty, modified ACME (non-sealing), 2 thread per inch threads with an o-ring seal.

**CEN**
Centron CEN is similar to the SSS with 4 threads per inch.

**Flange**
ANSI 16.5 compliant flange connection for full range of pressure ratings. Flanges for STAR and Centron products have internal female threads and assemble on to male threaded pipe ends or threaded pipe nipples. Fiberspar flanged Service End Connectors are metallic and are welded to body of the connectors.

**NPT Threads or Weld-Ends**
Unique to Fiberspar within Fiber Glass Systems, pipe to pipe connectors are used when connecting pieces of spoolable pipe together, whether for extending the length of the line or for repairing a damaged section.

Note: All female fiberglass threads are made on profile tooling to form mating threads to the male threads as described above.
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