More than $1 Trillion Will Be Needed to Repair Drinking Water Lines Over the Next 25 Years.

IPR and RS Technik have partnered to bring you the trenchless solution for repair, or full structural renewal, of water mains and transmission lines.

IPR continues to expand the nation’s largest and most comprehensive trenchless portfolio with the addition of RS BlueLine, a cured-in-place pipe (CIPP) technology developed by RS Technik for rehabilitation of pressure pipe. This unique design for renewing water pipe is the next evolution of CIPP derived from decades of technology development and application by RS Technik. Specialized features include:

- 6” to 42” diameter
- Multi-layered reinforced liner with Class IV full structural capability
- Specially formulated Dow® epoxy resins
- RS Technik computer-controlled, mobile wet-out and installation technology for efficient and reliable results

Certified to NSF/ANSI 61

Contact IPR for RS BlueLine, the right solution to repair and renew your damaged, aging or deteriorated water pipes.

With more than 50 million feet of rehabilitated gravity and pressure pipelines around the world, RS Technik and IPR are global leaders in advanced solutions for water and wastewater buried infrastructure.
**Water Pipe Renewal Using Cured-in-Place Pipe**

(CIPP) system designed for the trenchless rehabilitation of pressure pipes including drinking water mains, transmission lines and other raw water pressurized systems.

Certified to NSF/ANSI Standard 61, RS BlueLine can be designed to replace the host pipe with independent, full structural, Class IV capability (AWWA). Interactive, semi-structural design (Class III) is also available for rehabilitation of pipes suffering from internal corrosion, leaking joints, and/or localized external corrosion.

### Technical Envelope

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Pressure</td>
<td>Up to 230 psi ≤ 12” diameter, up to 145 psi &gt; 12” diameter</td>
</tr>
<tr>
<td>Diameter</td>
<td>6 to 42 inches</td>
</tr>
<tr>
<td>Pipe Materials</td>
<td>All types</td>
</tr>
<tr>
<td>Pipe Condition</td>
<td>Partially or fully deteriorated per ASTM F1216</td>
</tr>
<tr>
<td>pH</td>
<td>0.5 - 10.5</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Up to 140°F. Higher temperature options available.</td>
</tr>
<tr>
<td>Joint Deflection</td>
<td>Up to 10%</td>
</tr>
<tr>
<td>Diameter Variations</td>
<td>Up to 5%</td>
</tr>
<tr>
<td>Industry Standards</td>
<td>ASTM F2019, ASTM F1216, AWWA M28</td>
</tr>
<tr>
<td>Certification</td>
<td>NSF/ANSI Standard 61</td>
</tr>
</tbody>
</table>

### Key Features:
- Trenchless pipe repair
  - 6” - 42” diameter
- Fully structural, Class IV design
- Highly flexible, mobile application
  - 15+ years proven quality
  - On-site automated wet-out
  - Computer controlled and monitored
- Environment and user friendly
  - Dow® epoxy resins

### Standards and Certifications
- NSF/ANSI 61 - Drinking Water System Components-Health Effects, by NSF International
- Pressure pipe classification according to AWWA M28: Class II interactive; Class III semi-structural; Class IV fully-structural
- ASTM F1216 - Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube
- ASTM F2019 - Rehabilitation of Existing Pipelines and Conduits by the Pulled In Place Installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP)