Most size, pressure, temperature, and chemical requirements

• This is an informal presentation
• Please interrupt and ask questions any time!

– Contact Petersen any time for product and system information on wastewater treatment, controls, pumps, and pipe plugging systems

• Phil Lundman Mobile 262-689-5707
• Tony Birrittieri Mobile 262-689-0278

24/7 Emergency Response
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Petersen Pipe Plugging Systems
Most size, pressure, temperature, and chemical requirements

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Mechanical Pipe Plugs
Most size, pressure, temperature, and chemical requirements

Mechanical Pipe Plugs
Joint Testers

Most size, pressure, temperature, and chemical requirements
Most size, pressure, temperature, and chemical requirements

Inflatable Multi-Flex Flex Plugs

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Inflatable Molded Rubber Plugs
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Annular Sealing Systems
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129 Series Multi-Flex High Pressure Inflatable Plugs
Most size, pressure, temperature, and chemical requirements

129 Series Medium Pressure Pipe Plugging Systems
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Large Bypass (flow through) Pipe Plugs
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Pipeline Relining Packers

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Pneumatic Lifting, Alignment, & Pulling Systems
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Water Filled Radiation Shielding Systems
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Inflatable Custom Duct Balloons, Bladders, and Seals
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60” Plug Inserted Through an 18” Riser (Grace Titan)
Most size, pressure, temperature, and chemical requirements

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128-Series Grout Bag/Plug 60” Pipeline

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128-Series Plugging a 36” Wastewater Force Main
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128-Series Plugging a 36” Wastewater Force Main
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128-Series 78 Inch Wastewater Plugging Project
Most size, pressure, temperature, and chemical requirements

128-Series 78 Inch Wastewater Plugging Project
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128-Series Remote Install and Testing a 2” Pipeline 24’ Underground (CH2MHill)
Most size, pressure, temperature, and chemical requirements

Pipeline and Manhole Test Equipment
Most size, pressure, temperature, and chemical requirements

Hot Tap Plugging Systems for most size, pressure, chemical, and temperature requirements

Plug Pipelines without depressurizing.

128- Series System

129- Series System

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Tolls for Making a Hot (Live) Tap
Most size, pressure, temperature, and chemical requirements

Tapping Sleeve and Full Port Tapping Valve

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128 Series Hot Tap Plugging System Diagram
Most size, pressure, temperature, and chemical requirements

128 Series Hot Tap Plugging System Diagram

Table 1 - Customer Information. Please indicate units used.

<table>
<thead>
<tr>
<th>Location:</th>
<th>Mexicali City</th>
<th>Units</th>
<th>Date:</th>
<th>3/13/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim A -</td>
<td>Pipeline ID</td>
<td>29.25 **</td>
<td>Dim B -</td>
<td>Pipeline OD</td>
</tr>
</tbody>
</table>

Table 2 - Petersen Specifications.

<table>
<thead>
<tr>
<th>Plug Pressure:</th>
<th>14</th>
<th>Dim G - Inflation Ram Dia: 2.5 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim W -</td>
<td>Inflation Ram Length (include plug)</td>
<td>9.5 in.</td>
</tr>
<tr>
<td>Dim X -</td>
<td>Swivel Pivot Point</td>
<td>4.4 in.</td>
</tr>
<tr>
<td>Dim Y -</td>
<td>Swivel Half Length</td>
<td>1 in.</td>
</tr>
<tr>
<td>Dim Z -</td>
<td>End Length</td>
<td>3 in.</td>
</tr>
<tr>
<td>Dim F -</td>
<td>Fitting Seat Depth</td>
<td>3 in.</td>
</tr>
<tr>
<td>Dim E -</td>
<td>Launch Cylinder Length</td>
<td>144.00 in.</td>
</tr>
<tr>
<td>Dim D -</td>
<td>Max Launch Assembly Height</td>
<td>348.00 in.</td>
</tr>
<tr>
<td>Min Required Hole</td>
<td>7.25 in.</td>
<td>Launch Cyl. size &amp; type: 8” x 130” I.D. frange</td>
</tr>
</tbody>
</table>

* Required fields for valid calculations with results shown in bold numbers.
** Values are estimates and must be verified before production begins.
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128 Series Hot Tap Plugging System Major Components
Most size, pressure, temperature, and chemical requirements

Euro Systems Romania
Most size, pressure, temperature, and chemical requirements

Cooling Water Plugging System
Most size, pressure, temperature, and chemical requirements

128-Series Cooling Water Plugging System
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128-Series Plugging a 24 Inch Pressure Pipeline Through an Offset Nozzle
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128- System for Plugging a 48” Pipeline Through an 18” Nozzle
Most size, pressure, temperature, and chemical requirements

128- System for Plugging a 48” Pipeline Through an 18” Nozzle
Most size, pressure, temperature, and chemical requirements

129 Series Hot Tap Plugging System Diagram
Most size, pressure, temperature, and chemical requirements

Daniel O’Connells Valve Insertion

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129 Series Hot Tap Plugging of 8” Gas Pipeline (Team Industrial)
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129 Series Hot Tap Plugging of 4” & 8” pipeline (Xstrata Copper- Chile)
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290 psi 129 Series Hot Tap Plugging of 19” Water Pipeline (Malaysia)
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290 psi 129 Series Hot Tap Plugging of 19” Water Pipeline (Malaysia)
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Installing Completion Plug (Malaysia)
Most size, pressure, temperature, and chemical requirements

Completion Plug Component Drawing
Most size, pressure, temperature, and chemical requirements

6’ Tunnel Seal in 500M of Water (Cameco Cigar Lake Uranium Mine)
Most size, pressure, temperature, and chemical requirements

23’ Tunnel Seal in 500M of Water (Cameco Cigar Lake Uranium Mine)
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6’ Tunnel Seal in 500M of Water (Cameco Cigar Lake Uranium Mine)

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23’ Tunnel Seal in 500M of Water (Cameco Cigar Lake Uranium Mine)
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6’ Tunnel Seal in 500M of Water ( Cameco Cigar Lake Uranium Mine )
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- Thank you for your time and interest

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