PREDCO
Product Catalog
2008

SEWER TAP SADDLES
EXOTHERMIC EPOXY
STABILIZING SADDLE BANDS

Innovative Sewer Connections
Since 1974
800.323.6188
www.plumb-bob.com
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**UltraSeal**  
  - Water closet to drain connector  
  - The way to go
PREDCO Sewer Tap System cuts precision holes and makes secure permanent branch connections, eliminating ground water infiltration and root growth penetration in sewer mains.

A PREDCO SEWER TAPPING MACHINE IS:

- Machine cut hole sized for Fast-Fit sewer saddles
- Designed to tap all piping materials commonly used in sewer systems
- Quick and portable units designed for one-person operation
- Efficient and does not disturb pipe or pipe bedding
- Proven reliable by many years of field use
- Affordable
A3000 Air Machine Features

- All directional drilling
- Spindle speed approx. 500 RPM
- Air consumption at Max 80 CFM at 100 psi
- Hole cutter adapter and shaft coupling
- Sturdy transport case
- Filter/Regulator/Lubricator
- 1 Quart lubrication oil
- Hoses to connect regulator to machine

E1200 & E1600 Electric Machines

Electric machines come with a sturdy transportation case, and Inline 2nd surge protector and a platform guide.

<table>
<thead>
<tr>
<th></th>
<th>E1200</th>
<th>E1600</th>
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</thead>
<tbody>
<tr>
<td>Electronic overload protection</td>
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<td>Yes</td>
</tr>
<tr>
<td>2nd inline surge plug</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>110V</td>
<td>110V</td>
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<tr>
<td>Rated current</td>
<td>14A</td>
<td>20A</td>
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<tr>
<td>Power input</td>
<td>1600W</td>
<td>1600W</td>
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<tr>
<td>Power output</td>
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<td>1080W</td>
</tr>
<tr>
<td>Frequency</td>
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<td>Gear box</td>
<td>3-speed</td>
<td>3-speed</td>
</tr>
<tr>
<td>RPMs</td>
<td>580/1400/2900</td>
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<tr>
<td>Platform Guide</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Sturdy transport case</td>
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</table>
Diamond impregnated laser welded segments cut holes in: clay, concrete and ductile iron sewer pipe. Flowing water is required during the cut to cool the segments and add to the life of the cutter. Drilling slurry should be the color of coffee with cream to expose more diamond. Too much or not enough water will cause segment to glaze over and appear dull. They can be refreshed by spinning them in sand. Segments can be replaced if missing or completely worn down but the tube is not.

Diamond cutters are available in diameters between 4 inches and 18 inches, lengths up to 12” to accommodate the thickness of various piping materials.

PART# 1040L  5/8” Diamond tip pilot guide 14”
PART# OSPSL Pilot shafts 14”
PART# 1040R  5/8” Diamond tip pilot guide 9”
PART# OSPSR Pilot shafts 9”
PART# 1051 Replacement spring & tip

### DIAMOND TIP CUTTERS

<table>
<thead>
<tr>
<th>Diamond Cutter Diameters</th>
<th>Two bolt Attachment</th>
<th>Direct Thread Attachment</th>
<th>6¼” OAL</th>
<th>8” OAL</th>
<th>12” OAL</th>
<th>Other OAL</th>
<th>With E2PB</th>
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<td>1100</td>
<td>1108</td>
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<td>7” DTSC</td>
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<tr>
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<tr>
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<td></td>
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</tr>
<tr>
<td>E2PB</td>
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<td>✓</td>
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</tr>
</tbody>
</table>

OVER ALL LENGTH OF CUTTER SHELL
CARBIDE TIP SHELL CUTTERS

Carbide tips cut holes in: plastic, A/C, and fiberglass pipe.

Available in 4½ inch and 6½ inch diameters.

A gear chuck is required to attach to the air and gas machines. The Electric Machine also requires the E2GC adapter.

A 4½ inch hole is required for a 4 inch saddle and a 6½ inch hole for a 6 inch saddle.
PART# A3004
Shaft coupling with clevis pin and cotter pin
Connects Air/Gas machine to the HCA

PART# A1060
Hole cutter adapter (HCA) Joins the power head, to a diamond tipped shell cutters together while supplying cooling water during operation.

PART# A1163 included with Part#A1060
Water stub delivers water to cutter—can be replaced with a diamond tip pilot guide when drilling horizontally or with out a platform guide. Inserts into HCA with a set screw *

- PART# 1040L 5/8” Diamond tip pilot guide 14”
- PART# OSPSL Pilot shafts 14”
- PART# 1040R 5/8” Diamond tip pilot guide 9”
- PART# OSPSR Pilot shafts 9”
- PART# 1051 Replacement spring & tip

PART# ESPG
Easy set platform guide
Removable template accommodates either 4½ or 6½ in cutter. Spring arms clamps around pipe up to 22”.

Part#A1170
Water Assembly
Stainless steel mesh hose with quick disconnect ends

For larger pipe or horizontal cuts replace the water stub with a 5/8” diamond tip pilot guide

PART# 1181
Portable water tank with 10 foot hoses and connector.
PREDCO Sewer Tap Saddles molded in hardened PVC attach to clay, concrete, ductile iron, PVC, A/C, and fiberglass sewer mains with PREDCO two-part exothermic epoxy.

Complies with ASTM D2680-D2751

Sewer tap saddles available in two sizes and two styles

- 4 inch and 6 inch sizes
- Hub style saddle — connect with donut
- Spigot style saddle — connect with coupling
  - available with optional stainless steel shielded coupling

The full line of Fernco connectors are also available

Epoxy kits available in four sizes and handy sticks

- Amounts from four ounces of resin and four ounces of hardener in one jar to 32 ounces of resin and 32 ounces of hardener in separate jars
- 3½ inch and 7 inch epoxy stick
**Hub Tap Saddles** (connect with donut)

*4” Hub Tap Saddle  PART# HTS4/E - Hub saddle 4” with epoxy  
HTS4/LE - Hub saddle 4” with large epoxy  
6” Hub Tap Saddle PART# HTS6/LE - Hub saddle 6” with large epoxy  
HTS6/XLE - Hub saddle 6” with extra large epoxy*

**Donuts** *needed to connect hub saddle to branch connecting*

To connect

- DWV Schedule 40 to hub saddle  
  490-405 — 4”  
  614-605 — 6”
- S&D SDR 35 to hub saddle  
  490-401 — 4”  
  614-601 — 6”

**Spigot Tap Saddles with Coupling** connects spigot tap saddle to branch connection

*4” Spigot Tap Saddle*  
PART# STS4/E/1056-44 - Spigot saddle 4” with epoxy & coupling  
STS4/LE/1056-44 - Spigot saddle 4” with large epoxy & coupling  
6” Spigot Tap Saddle  
PART# STS6/LE/1056-66 - Spigot saddle 6” with large epoxy & coupling  
STS6/XLE/1056-66 - Spigot saddle 6” with extra large epoxy & coupling

1056 series fit Schedule 40 or SDR35 pipe other size coupling available

**Spigot Tap Saddles with Stainless Steel Shielded Coupling**

*4” Spigot Tap Saddle with Shielded Coupling*  
PART# STS4/E/1056-44RC - Spigot saddle 4” with epoxy & shielded cplg.  
STS4/LE/1056-44RC - Spigot saddle 4” with large epoxy & shielded cplg.

*6” Spigot Tap Saddle with Shielded Coupling*  
PART# STS6/LE/1056-66RC - Spigot saddle 6” with large epoxy & shielded cplg.  
STS6/XLE/1056-66RC - Spigot saddle 6” with extra large epoxy & shielded cplg.

**Stabilizing Saddle Bands**

For increased stability during back filling operation. Encircle your pipe with the PREDCO stainless steel banding that attaches to the tap saddle tabs. Housing and band are 300 series stainless steel. Screw Type 410 stainless steel and tightens with a slotted screwdriver or 5/16” hex nut-driver. Not rated for torque. Temperature range is -100° to +500° F.

*Part# 5B/F—Five feet of stainless steel strap And one fastener (for pipe up to 15” O.D.).  
22B/F—Twenty-two feet of stainless steel strap and one fastener (for pipe up to 60” O.D.).*
**Epoxy Kits**

**Mixing Spatulas**

**Epoxy Sticks**

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**Two-Part Exothermic Epoxy Kits**

Adheres tap saddles to clay, concrete, ductile iron, plastic, A/C, and fiberglass pipe.

**Part #**

- **PE44**: 4 ounces of resin and 4 ounces of hardener — in one jar
- **PLE88**: 8 ounces of resin and 8 ounces of hardener — in one jar
- **PXLE1616**: 16 ounces of resin and 16 ounces of hardener — in two separate jars
- **PSSE3232**: 32 ounces of resin and 32 ounces of hardener — in two separate jars

**Epoxy Mixing Spatulas**

**Part #**

- **EMS-HDPE**: Reusable economical plastic.
- **EMS-T 6x2**: Reusable Stainless steel spatula with wood handle.
- **EMS-Sq 7½x3**: Reusable Stainless steel spatula with wood handle, fits in large jars.

**Epoxy Sticks**

Extruded equal parts of resin and hardener. Break off amount needed and mix in hand. Adheres to many surfaces such as metal, wood, plastic, glass, ceramic and many other materials.

**Part #**

- **PES3.5**: 3½” stick
- **PES7.0**: 7” stick

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**SPECIFICATIONS**

**MATERIAL**

**SEWER TAP HOLE**

**SEWER TAP SADDLE**

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**MATERIAL SPECIFICATION FOR SEWER TAP SADDLES**

PREDCO Tap Saddles are manufactured in accordance with the Official Standards and Practices of Custom Plastic Molders as set forth by the Society of the Plastics Industry. This item is molded to normal commercial tolerances.

The material used in the Fast-Fit Sewer Tap Saddles are supplied by major companies; the unit is sold on the basis that it will meet or exceed the following tests:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength @ 73 degrees F</td>
<td>4500 PSI</td>
<td>D 638</td>
</tr>
<tr>
<td>Tensile modulus @ 73 degrees F</td>
<td>240,000 PSI</td>
<td>D 638</td>
</tr>
<tr>
<td>Flexural modulus @ 73 degrees F</td>
<td>250,000 PSI</td>
<td>D 790</td>
</tr>
<tr>
<td>Izod impact @ 73 degrees F</td>
<td>5.0 ft/lbs</td>
<td>D 256</td>
</tr>
<tr>
<td>Heat deflecting Temp. 264</td>
<td>200 degree F</td>
<td>D 648</td>
</tr>
<tr>
<td>Compressive modulus @ 73 degrees F</td>
<td>140,000 PSI</td>
<td>D 695</td>
</tr>
<tr>
<td>Specific gravity</td>
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<td></td>
</tr>
</tbody>
</table>

Complies with ASTM D2680-D2751-(Bldg. Drain and Sewer)

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**SEWER TAP HOLE SPECIFICATION:** Sewer taps shall be made to ensure a flexible, watertight connection between the sewer main or collection system sewer and the building. The hole in the sewer main, to receive the tap saddle, shall be made using non-impact rotary equipment using diamond or carbide tipped cutting drills. The tapping machine shall be capable of cutting holes, sized to receive a sewer saddle, in concrete, vitrified clay, cast iron, ductile iron, PVC, and ABS, plastic, A/C and fiberglass pipe without tunneling or disruption of the pipe bedding, equal to the tapping machine systems manufactured by Plumbing Research Engineering and Development.

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**SEWER TAP SADDLE SPECIFICATION:** The tap saddle shall be of a design that is attached to the sewer main with a fast curing, exothermic epoxy that can be used in wet or dry conditions. No part of the tap saddle shall protrude into the bore or waterway of the pipe. The saddle shall be manufactured of a material that is designed for sewer service. The saddle shall be of the design that will accommodate the connection of branch using piping material of PVC, ABS, cast iron, vitrified clay, concrete or A/C with a fitting of the compression, mechanical or sealing type. The tap saddle shall be equal to the saddles manufactured by Plumbing Research Engineering and Development Company.
UltraSeal connects the water closet to the drainage system with a gas and air tight seal that will not leak from pipe or fixture movement. Withstands plunger pressure. For floor outlet and wall-hung closets.

**F E A T U R E S**

- Reliable PVC construction
- Life time warranty against manufacturer defects
- Gas and water tight
- Flexible - accommodates fixture, piping and floor movement
- Easy to install - No special tools required
- Works on cast iron soil pipe, plastic, copper, and steel
- Endures heat from radiant flooring
- Will seal to closet flanges below floor level
- Reusable
- Will not stain floor or floor covering
- Will not restrict flow and works well with 1.6 gallon flush toilets
- Code compliant
- Two sizes - 3" for 3" toilet risers and 4" for 4" toilet risers
- The “Three Plus” for when your not sure