WARNING

Failure to follow instructions and warnings could result in death, serious personal injury, property damage, and/or product damage.

- Before operating or servicing any grooving tools, read all instructions in this manual and all warning labels on the tool.
- Wear safety glasses, hardhat, foot protection, and hearing protection while working around this tool.
- Save this operating and maintenance manual in a place accessible to all operators of the tool.

If you need additional copies of any literature, or if you have questions concerning the safe and proper operation of this tool, contact Victaulic, P.O. Box 31, Easton, PA 18044-0031, Phone: 1-800-PICK VIC, E-Mail: pickvic@victaulic.com.

Original Instructions
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HAZARD IDENTIFICATION
Definitions for identifying the various hazard levels are provided below.

This safety alert symbol indicates important safety messages. When you see this symbol, be alert to the possibility of personal injury. Carefully read and fully understand the message that follows.

**DANGER**
- The use of the word “DANGER” identifies an immediate hazard with a likelihood of death or serious personal injury if instructions, including recommended precautions, are not followed.

**WARNING**
- The use of the word “WARNING” identifies the presence of hazards or unsafe practices that could result in death or serious personal injury if instructions, including recommended precautions, are not followed.

**CAUTION**
- The use of the word “CAUTION” identifies possible hazards or unsafe practices that could result in personal injury and product or property damage if instructions, including recommended precautions, are not followed.

**NOTICE**
- The use of the word “NOTICE” identifies special instructions that are important but not related to hazards.

OPERATOR SAFETY INSTRUCTIONS
The RG1210 Roll Grooving Tool is designed for the sole purpose of grooving pipe. These instructions must be read and understood by each operator PRIOR to working with the grooving tool. These instructions describe safe operation of the tool, including set up and maintenance. Each operator must become familiar with the tool’s operations, applications, and limitations. Particular care should be given to reading and understanding the dangers, warnings, and cautions described throughout these operating instructions.

Use of this tool requires dexterity and mechanical skills, as well as sound safety habits. Although this tool is designed and manufactured for safe, dependable operation, it is difficult to anticipate all combinations of circumstances that could result in an accident. The following instructions are recommended for safe operation of this tool. The operator is cautioned to always practice “safety first” during each phase of use, including set up and maintenance. It is the responsibility of the lessee or user of this tool to ensure that all operators read this manual and fully understand the operation of this tool.

Store this manual in a clean, dry area where it is always readily available. Additional copies of this manual are available upon request through Victaulic, or can be downloaded at victaulic.com.

**DANGER**
1. Avoid using the tool in potentially dangerous environments. Do not expose the tool to rain, and do not use the tool in damp or wet locations. Keep the work area well lit. Allow sufficient space to operate the tool properly.
1. **WARNING**

1. **Prevent back injury.** Always use proper lifting techniques when handling tool components.

2. **Wear proper apparel.** Do not wear loose clothing, jewelry, or anything that can become entangled in moving parts.

3. **Wear protective items when working with tools.** Always wear safety glasses, hardhat, foot protection, and hearing protection.

4. **Keep hands and tools away from power drive chuck during grooving operation.** Rotation of the power drive can pinch or entangle fingers and hands.

5. **Do not reach inside pipe ends during tool operation.** Pipe edges can be sharp and can snag hands and shirt sleeves.

6. **Do not over-reach.** Maintain proper balance at all times. Verify that all controls are easily accessible to the operator.

7. **Do not make any modifications to the tool.** Do not remove any safety guarding or any components that would affect tool performance.

2. **CAUTION**

1. **The RG1210 tool is designed ONLY for grooving pipe sizes, materials, and wall thicknesses as designated.**

2. **Inspect the equipment.** Before using the tool, check moveable parts for obstructions. Ensure that tool components are installed and adjusted in accordance with setup instructions.

3. **Stay alert.** Do not operate the tool if you are drowsy from medication or fatigue.

4. **Keep visitors, trainees, and observers away from the immediate work area.** All visitors should be kept a safe distance from the equipment at all times.

5. **Keep work areas clean.** Keep the work area around the tool clear of any obstructions that could limit movement of the operator. Clean up any spills.

6. **Secure the work, machine, and accessories.** Verify that the tool is stable. Refer to the “Tool Setup” section.

7. **Support the work.** Support pipe lengths with a pipe stand or vise.

8. **Do not force the tool.** Do not force the tool or accessories to perform any functions beyond the capabilities described in these instructions. Do not overload the tool.

9. **Maintain tool with care.** Keep the tool clean to ensure proper and safe performance. Follow the instructions for matching and lubricating tool components, if applicable.

10. **Use only Victaulic replacement parts and accessories.** Use of any other parts may result in a voided warranty, improper operation, and hazardous situations. Refer to the “Parts Ordering Information” section.

11. **Do not remove any labels from the tool.** Replace any damaged or worn labels.
INTRODUCTION

NOTICE

- Drawings and/or pictures in this manual may be exaggerated for clarity.
- The tool, along with this operating and maintenance instructions manual, contains trademarks, copyrights, and/or patented features that are the exclusive property of Victaulic.

The Victaulic RG1210 Roll Grooving Tool is a portable tool that can be used in conjunction with a power drive for grooving pipe to be compatible with Victaulic grooved piping products. The standard RG1210 tool is equipped to groove 2–8 inch/60.3–219.1 mm Schedule 40 and 2–4 inch/60.3–114.3 mm Schedule 80 carbon steel pipe to Victaulic’s proprietary OGS-200 groove specifications.

CAUTION

- This tool must be used ONLY for grooving pipe with specifications that fall within the designated parameters.
- Verify that the upper and lower grooving rolls are a matched set.
Failure to follow these instructions could damage the tool and cause product failure, resulting in property damage or personal injury.

RECEIVING THE TOOL

RG1210 tools are packed individually in reusable containers. Save the original packaging for return shipment of rental tools.

Upon receipt of the tool, ensure that all necessary parts are included. If any parts are missing, contact Victaulic.

RETURNING THE TOOL

Prepare tool for shipment as received. Contact Victaulic with questions.

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<table>
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<tr>
<th>Qty.</th>
<th>Description</th>
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<td>RG1210 Roll Grooving Tool</td>
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<tr>
<td>1</td>
<td>Adjustable Ratchet with Swivel Handle</td>
</tr>
<tr>
<td>1</td>
<td>27 mm Deep Socket</td>
</tr>
<tr>
<td>1</td>
<td>Roll Set for 2–3 inch/60.3–88.9 mm pipe</td>
</tr>
<tr>
<td>1</td>
<td>Roll Set for 4–6 inch/114.3–168.3 mm pipe</td>
</tr>
<tr>
<td>1</td>
<td>Roll Set for 8 inch/219.1 mm pipe</td>
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<tr>
<td>1</td>
<td>Power Drive Adapter</td>
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<tr>
<td>2</td>
<td>Support Arm</td>
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<tr>
<td>1</td>
<td>Leg Assembly</td>
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<tr>
<td>3</td>
<td>Hex Key (4 mm, 8 mm, 10 mm)</td>
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<td>1</td>
<td>Go/No-Go Groove Diameter Tape</td>
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<tr>
<td>1</td>
<td>Groove Confirmation Gauge Set</td>
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<tr>
<td>10</td>
<td>Shear Pin</td>
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<td>1</td>
<td>Shear Pin Punch</td>
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<td>2</td>
<td>Operating and Maintenance Instructions Manual</td>
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NOTICE

- Drawings and/or pictures in this manual may be exaggerated for clarity.
- The tool, along with this operating and maintenance instructions manual, contains trademarks, copyrights, and/or patented features that are the exclusive property of Victaulic.

TOOL NOMENCLATURE

- Groove Diameter Adjustment Nut
- Lifting Handles
- Lower Roll
- Upper Roll
- Slide Assembly
- Depth Feed
- Arm Port
- Support
- Hoist Eye
- High-Speed Manual Drive Nut
- High-Torque Manual Drive Nut
- Power Drive Shaft
TOOL DIMENSIONS AND SPECIFICATIONS

Tool weight is 132.3 pounds/60.0 kilograms. Tool weight includes the tool head assembly, one roll set, support arms, power drive adapter, and leg assembly. The tool head assembly alone weighs 95.5 pounds/43.3 kilograms.

Tool sound pressure for manual use is below 70 dB(A). Tool sound pressure for powered use is 93 dB(A), while tool sound power is 99 dB(A). Sound measurements are taken with a Ridgid™ Model 300 power drive.

NOTE: Noise measurements are dependent on the power drive, and will vary based on configuration. Always check the power drive manufacturer’s documentation for details.

™ Ridgid is a registered trademark of Ridgid Tool Company
PRE-OPERATION CHECKS AND ADJUSTMENTS

Every Victaulic roll grooving tool is checked, adjusted, and tested at the factory prior to shipment. However, before operating the tool, the following checks and adjustments should be made to verify proper tool operation. In addition, the tool should be inspected for any damage that may have occurred during shipping and handling.

DANGER

- Before making any tool adjustments, disconnect the power cord from the electrical source. Accidental startup of the tool could result in serious personal injury.

GROOVING ROLLS

Verify that the proper roll set is installed on the tool for the pipe size to be grooved. Roll sets are marked with the pipe size and part number. If the proper roll set is not installed on the tool, refer to the “Roll Changing” section.

CAUTION

- Verify that the upper and lower grooving rolls are a matched set. Failure to follow these instructions could damage the tool and cause product failure, resulting in property damage or personal injury.

PIPE PREPARATION

For proper tool operation and production of grooves that are within Victaulic specifications, the following guidelines must be followed.

1. Victaulic recommends square-cut pipe with grooved-end pipe products. Roll grooving beveled-end pipe may result in unacceptable flare, leaks, or joint failure.

2. Raised internal and external weld beads, seams, and burrs must be ground flush with the pipe surface, 2 inches/50 mm back from the pipe ends.

3. The outside surface of the mating components, between the groove and the mating component ends, shall be generally free from indentations, projections, weld seam anomalies, and roll marks to ensure a leak-tight seal. All oil, grease, loose paint, dirt, and cutting particles shall be removed.

CAUTION

- For maximum grooving roll life, remove foreign material from the interior and exterior surfaces of the pipe ends. Foreign material may interfere with or damage grooving rolls, resulting in leaks and property damage.
TOOL SETUP

RG1210 tools can be used to groove pipe that is supported by several different methods. Refer to the setup instructions listed in this section for different grooving options.

A hoist eye has been provided to allow the use of a lifting device when mounting the tool.

PIPE VISE SETUP

1. When grooving pipe that is supported with a pipe vise, select a location for the tool and pipe vise by taking into consideration the following factors:
   a. Adequate space to handle pipe lengths
   b. A firm and level surface for the pipe vise
   c. Anchoring requirements for the pipe vise

2. Mount a pipe vise onto a stand or work bench. The pipe vise should be mounted flush with, or slightly overhanging, the edge of the stand or work bench. When the tool is mounted on the pipe, the tool must be able to rotate freely around the pipe without being obstructed by the stand or work bench.

3. Secure a length of pipe in the pipe vise. Pipe position and pipe vise anchoring must be capable of supporting the weight of the tool (95.5 pounds/43.3 kilograms), the weight of the pipe, and the force generated during operation of the tool.

   Position the pipe to overhang the pipe vise by a minimum of 5 inches/127 mm, so that the tool can rotate freely. Depending on the stand being used, additional clearance may be needed.

4. Mount the tool on the pipe, then turn the depth feed nut clockwise to lower the upper roll until the tool rests snugly on the pipe. Move the groove diameter adjustment nuts to the top of the threaded rod so as not to interfere with the setup groove.

GROOVE-IN-PLACE SETUP

DANGER
• Depressurize and drain the piping system before attempting to adjust or disassemble any Victaulic piping products.

• Pipe hangers must be capable of handling the weight of the tool and the manual effort required to operate the tool.

Failure to follow these instructions could result in serious personal injury and/or property damage.

Previously installed pipe may be grooved with a RG1210 tool, provided that the pipe is supported securely and that the system is completely depressurized and drained. Pipe hangers must be capable of supporting the weight of the tool (95.5 pounds/43.3 kilograms), the weight of the pipe, and the force generated during operation of the tool.

1. Ensure that there is adequate clearance around the pipe to permit proper tool rotation during the grooving process. Refer to the “Tool Dimensions and Specifications” section.
2. Mount the tool on the pipe, then turn the depth feed nut clockwise to lower the upper roll until the tool rests snugly on the pipe. Move the groove diameter adjustment nuts to the top of the threaded rod so as not to interfere with the setup groove.

POWER DRIVE SETUP

**DANGER**

- DO NOT connect electrical power until instructed otherwise.

Failure to follow this instruction could result in death or serious personal injury.

The RG1210 tool can be attached to a power drive using the provided support arms, drive shaft adapter, and leg assembly.

1. Remove all components from the packaging, and ensure that all necessary items are included. Refer to the “Receiving the Tool” section.

2. Select a location for the power drive and tool by taking into consideration the following factors:
   a. The required power supply (refer to the power drive manufacturer’s instructions)
   b. Adequate space to handle pipe lengths
   c. A firm and level surface for the power drive
   d. Adequate clearance around the tool for adjustment and maintenance

3. Using a flat-head screwdriver, remove the caps on the support arm ports.

4. Screw the support arms into the ports until hand-tight. Do not overtighten.

5. Screw together the leg assembly pieces.

6. Align the leg assembly with the base of the tool head. Proper orientation will have the legs angled towards the front of the tool body.
7. Insert the provided socket cap screws.

8. Using the hex key provided, tighten the socket cap screws to secure the leg assembly to the base of the tool head. Do not overtighten.

9. Insert the power drive adapter into the power drive until the adapter collar meets the drive collet.

10. Insert the tool drive shaft into the power drive adapter until the tool body meets the adapter. **NOTE:** A hoist eye has been provided to allow the use of a lifting device when mounting the tool.

11. Using the hex key provided, tighten the socket cap screw until hand-tight. Then, tighten the locking nut until hand-tight. Do not overtighten.
12. Twist the tool legs until the feet rest flat against the ground.

13. Ensure that the tool is stable, centered, and level on the power drive support arms.

**GROOVING OPERATION**

Before proceeding, verify that all instructions in the previous sections of this manual have been followed.

**MANUAL GROOVING**

1. Each rotation line around the groove diameter adjustment nut signifies 0.0039 inches/0.1 mm of groove diameter adjustment.

2a. The upper left manual drive nut is high speed/low torque for smaller diameter pipe. The lower right manual drive nut is low speed/high torque for larger diameter pipe.

2b. Using the provided handle, turn one of the manual drive nuts to begin grooving.
3. Alternate turning the depth feed nut with turning the manual drive nut. Do NOT turn the depth feed nut more than 0.0039 inches/0.1 mm (one line) per rotation.

**NOTICE**
- Do NOT turn the depth feed nut more than 0.0039 inches/0.1 mm (one line) at once.
- Failure to follow this instruction could overload the tool, resulting in reduced tool life or tool damage.

4. To check the groove diameter during grooving, use the groove confirmation gauge set provided. Place the tab of the gauge lengthwise into the groove. If there is space between the long edge of the gauge and the pipe length when the tab meets the bottom of the groove, continue grooving. If there is no space, stop grooving and measure with the provided Go/No-Go Groove Diameter Tape.

If desired, groove diameter adjustment nuts may be set at this point for repeatability while grooving pipe of the same diameter and schedule. With the rolls fully engaged in the groove, tighten the first groove diameter adjustment nut against the tool head. Tighten the second groove diameter adjustment nut against the first to lock the setting in place.

5. While supporting the tool, loosen the depth feed nut and remove the tool from the pipe.

6. Carefully check the groove diameter of the pipe ("C" dimension) with the provided Go/No-Go Groove Diameter Tape.

**NOTICE**
- The groove confirmation gauge is provided for convenience during the grooving process. The final groove must still be checked with the provided groove diameter tape to ensure that it meets Victaulic specifications.
POWERED GROOVING

1. Each rotation line around the groove diameter adjustment nut signifies 0.0039 inches/0.1 mm of groove diameter adjustment.

2. Ensure that the tool is properly secured to the power drive, as explained in the “Power Drive Setup” section.

3. Plug the power drive cord into an appropriately-rated power source. Refer to the power drive manufacturer’s operating manual for additional information.

Place the safety foot switch on the same side of the tool as the power drive switch, with adequate clearance for ease of use and to avoid a tripping hazard.

**WARNING**

- The power drive must be operated with a safety foot switch. If the power drive is not supplied with a safety foot switch, contact Victaulic.

Operating the tool without a safety foot switch could result in serious personal injury.

4. Turn the switch on the side of the power drive to create clockwise pipe rotation when viewed from the front power drive chuck.

5. Press the safety foot switch to begin grooving. Do NOT turn the depth feed nut more than 0.0039 inches/0.1 mm (one line) per rotation.

**NOTICE**

- Do NOT turn the depth feed nut more than 0.0039 inches/0.1 mm (one line) at once.

Failure to follow this instruction could overload the tool, resulting in reduced tool life or tool damage.

6. To check the groove diameter during grooving, use the groove confirmation gauge set provided. Disconnect power, then place the tab of the gauge lengthwise into the groove. If there is space between the long edge of the gauge and the pipe length when the tab meets the bottom of the groove, continue grooving. If there is no space, stop grooving and measure with the provided Go/No-Go Groove Diameter Tape.
If desired, groove diameter adjustment nuts may be set at this point for repeatability while grooving pipe of the same diameter and schedule. With the rolls fully engaged in the groove, tighten the first groove diameter adjustment nut against the tool head. Tighten the second groove diameter adjustment nut against the first to lock the setting in place.

**NOTICE**

- The groove confirmation gauge is provided for convenience during the grooving process. The final groove must still be checked with the provided groove diameter tape to ensure that it meets Victaulic specifications.

7. While supporting the tool, loosen the groove diameter adjustment nut and remove the tool from the pipe.

8. Carefully check the groove diameter of the pipe (“C” dimension) with the provided Go/No-Go Groove Diameter Tape.

**ROLL CHANGING**

The RG1210 Roll Grooving Tool is designed with rolls to accommodate several pipe sizes, eliminating the need for frequent roll changes. Verify that the upper and lower grooving rolls are a matched set.

**DANGER**

- Always disconnect the tool from the electrical source before changing rolls.

Failure to follow this instruction could result in death or serious personal injury.

**UPPER ROLL REMOVAL**

1. Verify the appropriate roll size by checking the marking on the edge of the roll.

2. Using the hex key provided, loosen the set screw on the side of the slide assembly. It is not necessary to fully remove the set screw.
3. Remove the upper roll shaft by drawing it out from the slide assembly.

4. Remove the upper roll from the slide assembly.

**LOWER ROLL REMOVAL**

1. Verify the appropriate roll size by checking the marking on the front of the roll.

2. Using the hex key provided, remove the lower roll retaining stud.

3. Grasp the tool with one hand, then use the other hand to pull the lower roll out of the tool.

**LOWER ROLL REPLACEMENT**

1. Replace the lower roll with the alternate size provided.
MAINTENANCE

This section provides information about keeping the tool in proper operating condition.

LUBRICATION

1. After every 8 hours of operation, lubricate the three grease fittings on the tool with EP2 lithium grease. **NOTE:** Safety guard removed for clarity.

2. Once per week, use EP2 lithium grease to lubricate the groove diameter adjustment screw. To make room for lubrication, move the groove diameter adjustment nuts to the top of the threaded rod. Remove the lower roll, then lower the slide assembly until the groove diameter adjustment nuts bottom out on the tool head.

UPPER ROLL REPLACEMENT

1. Replace the upper roll and upper roll shaft into the slide assembly. To confirm proper installation, verify that the part code stamp on the upper roll faces the operator. Also verify that the upper roll groove feature aligns with the lower roll pocket. Tighten the set screw until hand-tight.

3. Using the hex key provided, reinstall the lower roll retaining stud.

2. Grasp the tool with one hand, then use the other hand to push the lower roll into the tool.
SHEAR PIN REPLACEMENT
If the tool will not travel around the pipe, one or more of the shear pins must be replaced.

1. To access the shear pin in the depth feed nut, turn the depth feed nut sideways to allow room for the shear pin punch.

2a. To access the shear pins in the manual drive nuts, unscrew the safety guard and set aside.

2b. Turn the manual drive nuts sideways to allow room for the shear pin punch.

3. Remove the shear pin using the shear pin punch and replace with an intact shear pin. If all provided shear pins have been used, contact Victaulic to order replacements.

4. Reinstall the safety guard.

PARTS ORDERING INFORMATION
When ordering parts, the following information is required for Victaulic to process the order and send the correct part(s). Parts can be ordered by calling 1-800-PICK VIC.

1. Tool Model Number
2. Tool Serial Number
3. Quantity, Item Number, Part Number, and Description
4. Where to send the part(s) – Company Name and Address
5. To whose attention to send the part(s) – Person’s Name
6. Purchase Order Number
7. Billing Address
## TROUBLESHOOTING

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<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe will not stay in grooving rolls.</td>
<td>Incorrect pipe positioning of long pipe length.</td>
<td>Adjust pipe positioning.</td>
</tr>
<tr>
<td></td>
<td>Improper manual grooving technique.</td>
<td>Refer to the “Grooving Operation” section.</td>
</tr>
<tr>
<td></td>
<td>Lower roll and pipe are not rotating clockwise.</td>
<td>Refer to the “Tool Setup” section.</td>
</tr>
<tr>
<td>Pipe stops rotating during grooving.</td>
<td>Rust or dirt build-up is present on the lower roll.</td>
<td>Remove any rust or dirt accumulation from the lower roll with a stiff wire brush.</td>
</tr>
<tr>
<td></td>
<td>The grooving rolls are worn.</td>
<td>Inspect the lower roll for worn knurls. Replace the lower roll if excessive wear is present.</td>
</tr>
<tr>
<td></td>
<td>The power drive chuck is not properly engaged into the drive shaft notched flats.</td>
<td>Refer to the “Tool Setup” section.</td>
</tr>
<tr>
<td></td>
<td>The circuit breaker has tripped or a fuse has blown out on the electrical circuit that supplies the power drive.</td>
<td>Reset the breaker, or replace the fuse.</td>
</tr>
<tr>
<td>Pipe flare is excessive.</td>
<td>Pipe support is adjusted too high for long pipe.</td>
<td>Lower the pipe support.</td>
</tr>
<tr>
<td></td>
<td>Tool is tilted forward (out of level) while grooving long pipe.</td>
<td>Refer to the “Tool Setup” section.</td>
</tr>
<tr>
<td></td>
<td>Incorrect pipe support positioning of long pipe. Pipe is “over-tracking”.</td>
<td>Move the pipe support to the right.</td>
</tr>
<tr>
<td>The tool will not groove the pipe.</td>
<td>Pipe is beyond the tool’s capabilities in diameter or wall thickness.</td>
<td>Refer to the “Tool Rating and Roll Selection” section.</td>
</tr>
<tr>
<td></td>
<td>Pipe material is incorrect.</td>
<td>Use correct pipe material.</td>
</tr>
<tr>
<td>Shear pin(s) has broken.</td>
<td>Rolls are being fed too fast.</td>
<td>Remove the damaged shear pin(s) and replace with a new shear pin. Refer to the “Shear Pin Replacement” section. Groove the pipe at a slower rate.</td>
</tr>
<tr>
<td></td>
<td>Pipe is beyond the wall thickness capacity of the tool, or the pipe material is too hard.</td>
<td>Remove the damaged shear pin(s) and replace with a new shear pin. Refer to the “Shear Pin Replacement” section. Groove pipe that is within the capacity of the tool. Refer to the “Tool Rating and Roll Selection” section.</td>
</tr>
<tr>
<td></td>
<td>The feed mechanism is binding, damaged, or insufficiently lubricated.</td>
<td>Repair and lubricate the feed mechanism, as required.</td>
</tr>
<tr>
<td>&quot;A&quot; dimension is out of specification.</td>
<td>Tool is not fully pushed onto the pipe.</td>
<td>Cut off the pipe end. Regroove the pipe with the tool pushed all the way onto the pipe end.</td>
</tr>
<tr>
<td></td>
<td>Incorrect roll set used for grooving.</td>
<td>Verify that the roll set is the appropriate size for the pipe to be grooved. Install the correct roll set for the pipe to be grooved.</td>
</tr>
</tbody>
</table>

In the event of tool malfunction outside the scope of the troubleshooting section, contact Victaulic for assistance.
## ROLL GROOVE SPECIFICATIONS

OGS-200 FOR SCHEDULE 40 AND SCHEDULE 80 CARBON STEEL PIPE

<table>
<thead>
<tr>
<th>Size</th>
<th>Dimensions – inches/millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal Size</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>50</td>
</tr>
<tr>
<td>2½</td>
<td>73.0</td>
</tr>
<tr>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
</tr>
<tr>
<td>6</td>
<td>150</td>
</tr>
<tr>
<td>8</td>
<td>200</td>
</tr>
</tbody>
</table>

1. **Outside diameter**: The outside diameter of roll grooved pipe shall not vary more than the tolerance listed. For IPS pipe, the maximum allowable tolerance from square cut ends is 0.032 inch/0.81 mm for 2–3 inch/DN50–DN80; and 0.063 inch/1.60 mm for 4–6 inch/DN100–DN150, measured from the true square line.

2. **Gasket seat “A”**: The pipe surface shall be free from indentations, roll marks, and projections from the end of the pipe to the groove to provide a leak-tight seal for the gasket. All loose paint, scale, dirt, chips, grease, and rust must be removed. It continues to be Victaulic’s first recommendation that pipe be square cut. When using beveled end pipe, the gasket seat “A” is measured from the end of the pipe. IMPORTANT: Roll grooving of beveled end pipe may result in unacceptable pipe end flare. See Maximum Allowable Flare Diameter column.

3. **Groove width “B”**: Bottom of groove to be free of loose dirt, chips, rust, and scale that may interfere with proper coupling assembling.

4. **Groove diameter “C”**: The groove must be of uniform depth for the entire pipe circumference. The groove must be maintained within the “C” diameter tolerance listed.

5. **Groove depth “D”**: For reference only. The groove must conform to the groove diameter “C” listed.

6. **Maximum allowable pipe end flare diameter “F”**: Measured at the most extreme pipe end diameter, square cut or beveled.

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**NOTES**

- Do not apply coatings to the gasket seat “A” or within the groove width “B” on the pipe exterior.
- Any corrective action to gasket seat “A” to provide a good sealing surface as required in footnote #2 (listed above) must not result in file, grind, or sand marks going across gasket seat “A.”
- Roll grooving removes no metal, instead cold forming a groove by the action of an outer grooving roll being forced into the pipe as it is rotated by an inner support roll.
- For use on schedules 40 and 80 IPS carbon steel pipe. Contact Victaulic for all other pipe material inquiries.
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EC DECLARATION OF INCORPORATION

In Accordance with the Machinery Directive 2006/42/EC

Victaulic Company, headquartered at 4901 Kesslersville Road, Easton, PA 18040, USA, hereby declares that the machinery listed below complies with the essential safety requirements of the Machinery Directive, 2006/42/EC.

Product Model: RG1200, RG1210
Serial No.: Refer to Machinery Nameplate
Product Description: Portable roll grooving tool
Conformity Assessment: 2006/42/EC, Annex I
Technical Documentation: The relevant technical documentation prepared in accordance with Annex VII (B) of the Machinery Directive 2006/42/EC, will be made available upon request to the governing authorities.
Compatible Power Drives: When installed with the following power drive unit, having an appropriate EC Declaration of Conformity in accordance with Annex II (A) of the Directive 2006/42/EC, the RG1200 and RG1210 models listed above may be commissioned for the full intended purpose:

Ridgid 300

Authorized Representative: Victaulic Company
c/o Victaulic Europe BVBA
Prijkelstraat 36
9810, Nazareth
Belgium

Signed for and on behalf of Victaulic Company,

Mr. Len R. Swantek
Director – Global Regulatory Compliance
Machinery Manufacturer Representative

Place of Issue: Easton, Pennsylvania, USA
Date of Issue: May 12, 2020
RG1210 Roll Grooving Tool