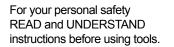






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SPECIFICATIONS

Table 1 : Squeeze-off Tool for 3" to 6" (90mm - 180mm) PE Pipe *



Length:	6.5 ft **	2.0 m **	
Width:	17.8 in	45.1 cm	
Weight	60.0 lb	27.3 kg	

Table 2: Rate of Closure

Pipe Size	# of Revo- lutions to Close	Maximum # of Revolutions per minute to Close per ASTM Specifications	Minimum Rev- olution Period in Seconds
3-Inch	34	11.0	5.5
4-Inch	39	9,5	6.4
6-Inch	48	8.0	7.5

^{*} Manufacturer reserves the right to change specifications without notice

TIMBERLINE LIMITED WARRANTY

Warranty Policy

Every product manufactured by Timberline Tool is thoroughly inspected and tested before leaving the factory. Our products are warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop with our tools, handles, or accessories during this one-year period please call 800.735.6845 to obtain return authorization for repair. If inspection shows the trouble is caused by defective workmanship or material, Timberline Tool will repair or, at our option, replace the product without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others.
- repairs are required because of normal wear and tear.
- the tool has been abused, misused, or improperly maintained.
- alterations have been made to the tool.

IN NO EVENT SHALL TIMBERLINE TOOL BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

TIMBERLINE TOOL DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUD-ING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE-YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

^{**} Additional handle extensions may be added to increase the reach of the tool.

SERVICE

After every ten uses:

 Apply a small amount of grease to the ACME thread. (Fig 19)



Fig 19

Lubricate the pins and bushings with light oil if it is difficult to open and close the tool. (Fig 20)



Fia 20

 Use a small amount of light lubricating oil in the ball-nose spring plungers located on the slapon jaw post. (Fig 21)



Fig 21

4. The bearing house is sealed and additional lubrication is not necessary. (Fig 22)



Fig 22



If you have questions, please feel free to contact our customer service representatives at 1-800-735-6845 or by email at service@timberlinetool.com.

ACCESSORIES



Any accessories or attachments recommended for use with your Timberline Tool are specified in this manual. The use of any other accessories or attachments might present a risk of injury. Only use accessories or attachments for the stated purpose.

INTRODUCTION

Timberline squeeze-off tools are designed to temporarily stop the pressurized flow of liquid or gas in polyethylene (PE) pipe.

Squeeze-off is a technique used to control the flow of gas or liquid in polyethylene pipe by compressing the pipe between parallel bars until the inside surfaces make contact. The flexibility and toughness of most polyethylene pipes allow the pipe to recover from a properly made squeeze-off without a measurable loss in service life. Squeeze-off is useful for making installation tie-ins and emergency repairs.

Timberline squeeze-off tools are made from high strength aluminum for superior durability and will not bend or break under normal use. However, care must be taken to ensure that the pipe is free of foreign material and the slap on jaw matches the diameter and wall thickness / SDR of the pipe to be squeezed. *

Please read the following suggested procedure for squeezing off polyethylene plastic pipe using Timberline Squeeze-off Tools.

GENERAL SAFETY RULES

For all Tools

READ and UNDERSTAND all instructions. Failure to follow all instructions listed below may result in serious personal injury and/or damage to the tool.

The following ASTM standards provide guidance and requirements for squeeze-off tools, operating procedures, and qualification procedures.

- ASTM F1041, "Standard Guide for Squeeze-off of Polyolefin Gas Pressure Pipe and Tubing"
- ASTM F1563, "Standard Specification for Tools to Squeeze-Off Polyethylene (PE) Gas Pipe or Tubing"
- ASTM F1734, "Standard Practice for Qualification of a Combination of Squeeze Tool, Pipe, and Squeeze-Off Procedures to Avoid Long-Term Damage in Polyethylene (PE) Gas Pipe"
- * The SDR is the ratio of pipe diameter to wall thickness. SDR can be be expressed as SDR = D/s where D = pipe outside diameter and s = pipe wall thickness.

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SAFETY INSTRUCTIONS

SAVE THESE FOR FUTURE REFERENCE

Static Electricity Safety

WARNING

Use a proper grounding rod at all times to insure personal safety.

WARNING

PE pipe is a relatively low conductor of electricity. As a result PE pipe does build up a static charge when it is in gas service due to the gas flow on the inside of the pipe. During squeeze-off a larger amount of static charge builds up.

In addition to the potential for pipe damage due to static discharge, the build up of a static charge represents an ignition source. Timberline Tool recommends that you follow all of your company grounding techniques and that all personnel involved in squeeze-off operations receive training on those grounding procedures so that they understand the hazards involved.

Workplace Safety



Prior to using any squeeze-off tool, consult ASTM Standards F1041-02, F1563-01 and F1734-03.

Always follow applicable company and OSHA safety procedures.

Observe pipe manufacturers' recommendations and precautions for squeeze-off of polyethylene pipe, exercising particular caution when leaking gas is present.

Safety first. Timberline squeeze-off tools must be used by qualified, trained personnel only and must never be left on the pipe unattended. Refer to pipe manufacturers' recommendations for locating squeeze-off distances from fittings and joints.

Personal Safety



Stay Alert, watch what you are doing, and do not use tools while tired or under the influence of narcotics, alcohol, or medication.

WARNING Use proper clothing, eye protection, and safety equipment when using squeeze-tools.

A moment of inattention while operating squeeze-off tools may result in personal injury.

Store idle tools out of reach of children and other untrained persons.

6. Lower the TR650 onto the pipe until both cables are resting on the pipe. Keep the tool perpendicular to the pipe during squeeze off. (Fig 13)



Fig 13

 Turn the Ratchet Handle clockwise until the pipe is squeezed-off. The table on page 2 shows the rate of closure and number of revolutions to complete the squeeze-off procedure per ASTM specifications. (Fig 14)



Fig 1



Complete squeeze-off will be evident when you will feel the tool hit its mechanical stops and the top of the posts contact the yoke. (Fig 15)



Fia 15

 To prevent accidental release of the tool during service operations on the pipe, remove the Ratchet Handle. A padlock or lock-out/tag-out may be placed through the Top Hex Head to further prevent accidental release. (Fig 16)



9. A padlock or lock-out/tag-out may be placed through the **Bottom Extensions**. (Fig 17)



 When removing the tool from the pipe, attach the Ratchet Handle making sure "OPEN" or "OFF" is up. Turn the Ratchet Handle counterclockwise at half the closing rate per ATSM Specifications. (Fig 18)



Fig 18



Make sure the **Slap-On Jaw** matches the diameter and SDR of the pipe to be squeezed-off. (*Fig 5*)



- 5. Attach the Slap-On Jaw. (Fig 6)
- 6. Attach both cables to the Fixed Jaw. (Fig 7)





The tool can be operated with the **Ratchet Handle** and **Top Hex Head Extension** only. (Fig 8)

7. If you need more length add the **Bottom Extensions**. (Fig 9)







Fig 8



Fig 6

Fig 7

Fig 9

OPERATING PROCEDURE



Remember this is only a recommended procedure for a safe and effective squeeze-off. Always follow your specific company safety rules when working around natural gas.



Fig 10

- Ground the tool with the grounding rod.
- Open the TR650 just enough to fit over the pipe. The cables will not be tight. (Fig 10)



If the cables are tightened and the clamp is dropped on the pipe the cables will break.





- 3. Make sure the pipe clear of any debris (rock, dirt, etc).
- Remove the Ratchet Handle turn it over so that "CLOSE" or "ON" is up.(Fig 11)
- 5. Reattach the Ratchet Handle with the pin. (Fig 12).



Fig 12

Specific Tool Safety



If you have used other Timberline products please be aware that the operation of this tool may differ from others and that you may need to follow different rules. Always consult the manual to insure you are following the correct safety instructions to avoid personal injury.

Tool Usage Safety

Do not force the tool to perform a squeeze-off. The tool will operate safer and better if the rate of squeeze in these instructions is followed.

Maintain the tool with care. A properly maintained tool will be less likely to cause damage and is easier to control.

Check for misalignment, binding of parts, breakage of parts, and other conditions that might affect the operation of the tool. Accidents may be caused by improperly maintained tools.

Always use the Timberline TR650 with the grounding rod inserted in the ground when working with natural gas, or any other flammable substance.

Use only the accessories, slap-on jaws, or extension handles that correspond to your product. Accessories specific for one tool may be hazardous if used on a different tool.

Failure to use the TR650 in the manner specified in this manual may result in injury and/or permanent damage to the tool.

This tool complies with ASTM F1563-01.



Always make sure to use the slap-on jaw that corresponds to the pipe size and SDR or wall thickness of the pipe to be squeezed-off.

Tool Service Safety



Tool service must only be performed by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

8_

TR650 DIAGRAM



A2 – Top Extension

A3 – Bottom Extensions

A4 - Quick Release Pins on Lanyards

A4

A4

(lanyards not shown)

B5 - Bearing House

B6 - Yoke

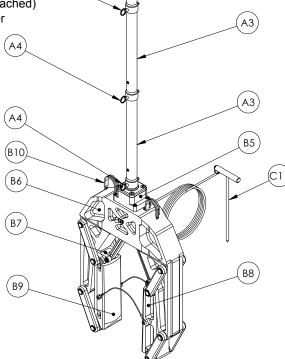
B7 – Slap-On Jaw Post

B8 - Fixed Jaw Post

B9 - Slap-On Jaw (2 cables attached)

B10 - Ground Rod Strap Holder

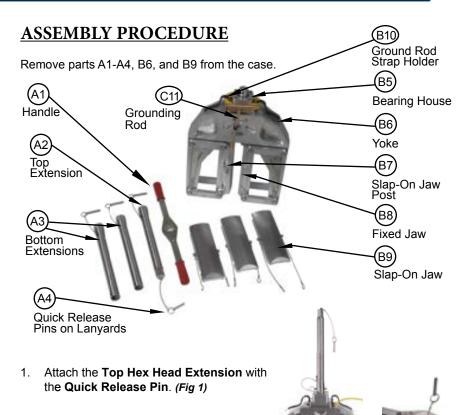
C11 - Grounding Rod



A2



Familiarize yourself with all parts, names, and numbers. Refer to this diagram for the assembly and operation procedures that follow.



2. Thread the Quick Release Pin through the Ratchet Handle, making sure "OPEN" or

"OFF" is up.(Fig 2)



4. Turn the Ratchet Handle counterclockwise until the tool is halfway open (approximately three inches). (Fig 4)



Fig 1



Fig 2

Fig 4