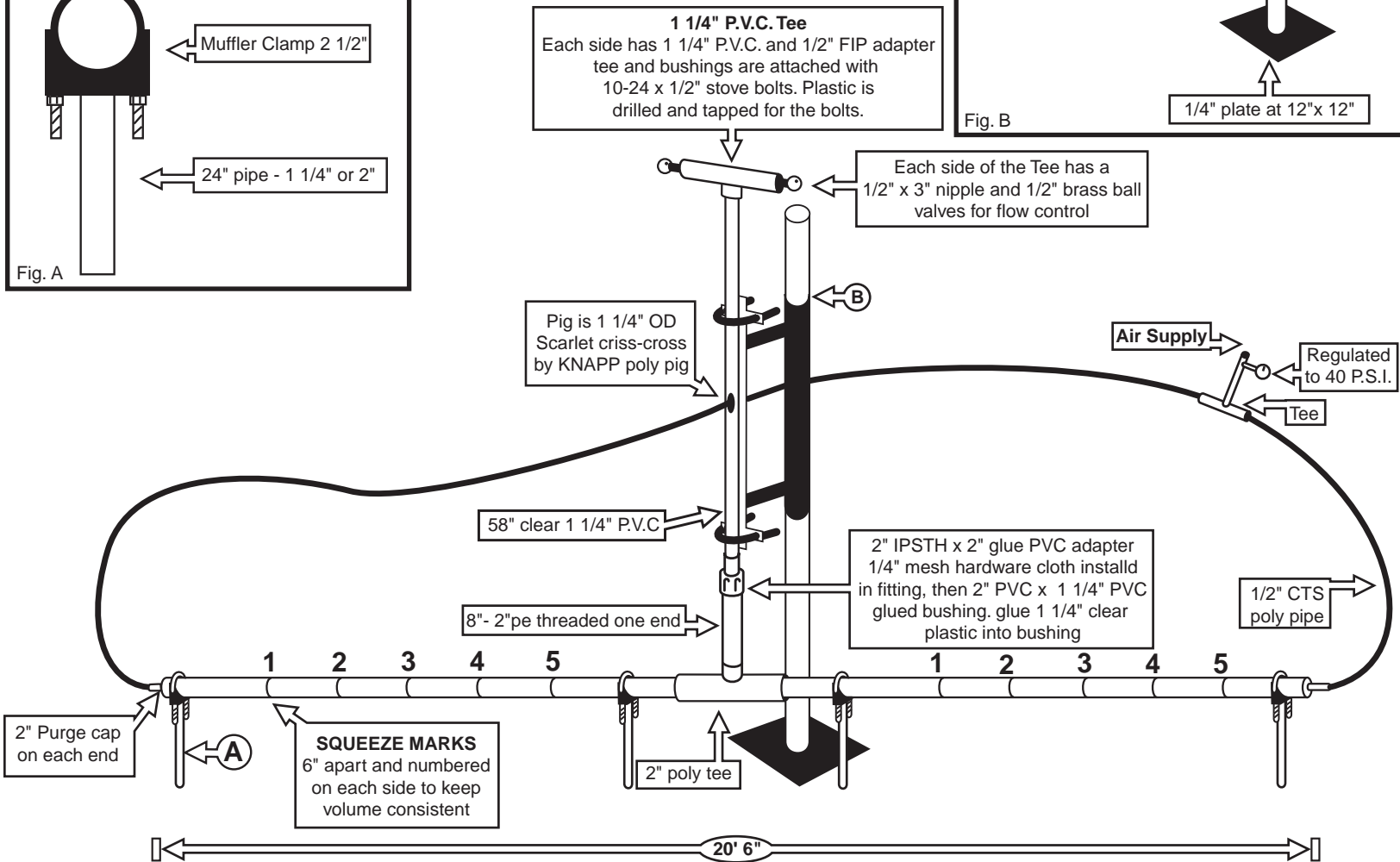
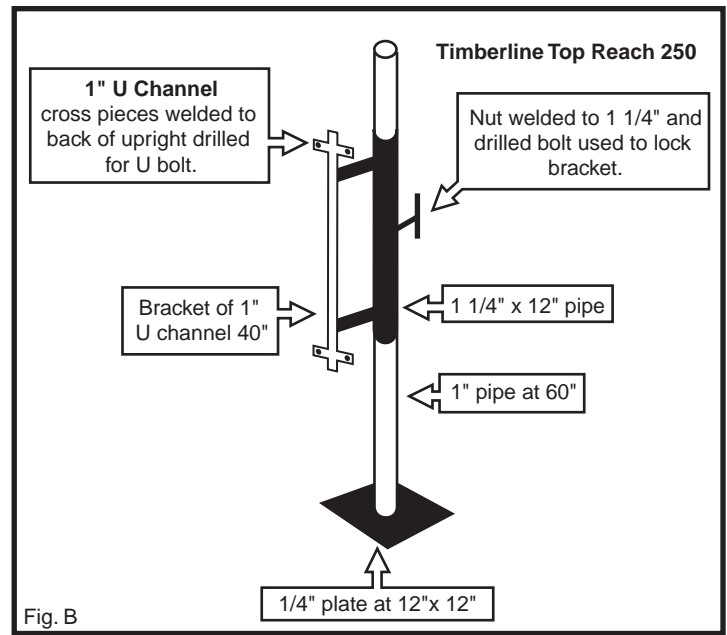
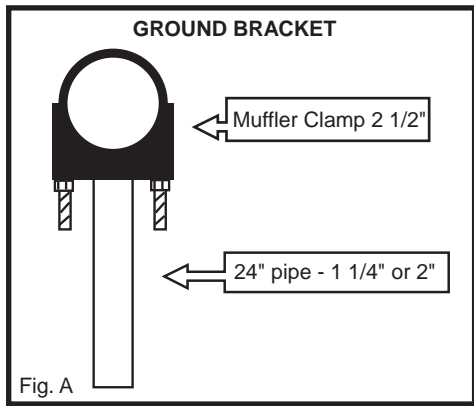


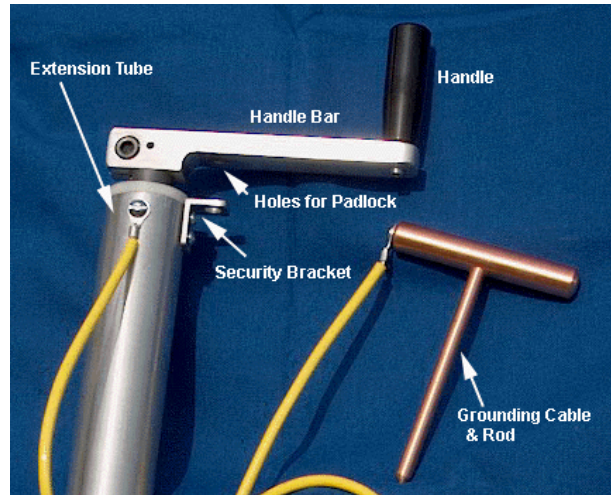
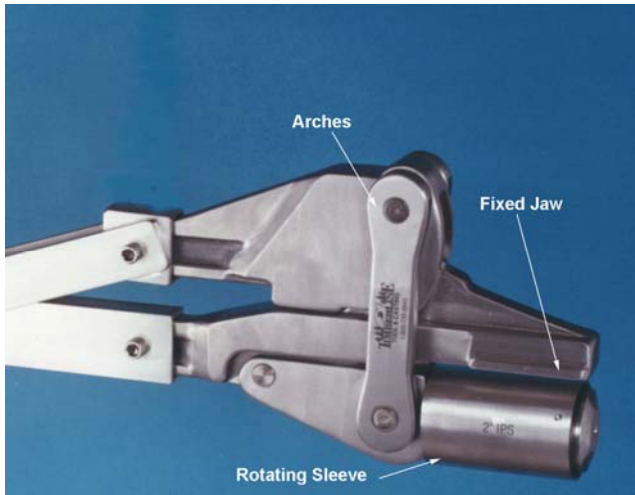
Plastic Pipe Squeeze National Gas Rodeo

**All dimensions are approximate.





TOPREACH™ 250 OPERATING INSTRUCTIONS



IMPORTANT INFORMATION!

- PROPER APPLICATION.** *Topreach™ Tools* by Timberline are designed to be used to temporarily "squeeze-off" polyethylene (PE) plastic pipe stopping the pressurized flow of liquid or gas without damaging the pipe. Any squeeze-off clamp must never be left on the pipe unattended. With its compact size the *Topreach™*, is particularly well suited for use in confined spaces. It also allows the operator total control over the rates of compression and release.

- FOLLOW RECOMMENDATIONS.** Observe pipe manufacturers' and industry precautions that apply to squeeze-off of polyethylene pipe. Exercise particular caution when leaking gas is present.

- TRAINING REQUIRED.** Timberline squeeze-off tools must be used only by qualified, trained personnel. Review these operating instructions fully prior to using the tool.

- MARKING SQUEEZE LOCATION.** Refer to pipe manufacturers' and industry recommendations for locating squeeze-off distances from fittings and joints, and the proper marking of squeeze-off locations.

- ASTM STANDARDS.** Prior to using any squeeze-off tool, the user should be familiar with the procedures contained in ASTM Standard F 1041, "Standard Guide for Squeeze-Off of Polyolefin Gas Pressure Pipe and Tubing".

- SAFE COMPRESSION & RELEASE RATES.** To avoid damaging PE pipe, the industry has adopted a safe compression rate of 2" (51 mm) per minute and a safe release rate of .5" (13 mm) per minute when squeezing PE pipe. The *Topreach™ 250* allows total control over the pipe compression and release. Please follow the safe handle rotation rates shown on the next page for your *Topreach™ 250 Tool*.

This *Topreach™ 250 Tool* has been manufactured for safe use on only the following pipe sizes:

- Setting 1: ¾" IPS SDR 11 -- .095 wall
- Setting 2: 1" IPS SDR 11 -- .120 wall
- Setting 3: 1-¼" IPS SDR 10 -- .166 wall
- Setting 4: 2" IPS SDR 11 -- .216 wall

PIPE SIZES LISTED ABOVE ARE FOR EXAMPLE ONLY—PLEASE LIST YOUR SIZES WHEN ORDERING.

SAFE SQUEEZE-OFF GUIDELINES FOR *Topreach*[™] TR250 MODEL on 2" PIPE

OPERATION	OVERALL TIME	HANDLE ROTATION RATE		
		FIRST 20 ROTATIONS	SECOND 20 ROTATIONS	FINAL 15 ROTATIONS
CLOSURE	1 MINUTE AND 55 SECONDS	1 MINUTE (3 SEC/ROTATION)	40 SEC (2 SEC/ROTATION)	15 SEC (1 SEC/ROTATION)
RELEASE	6 MINUTES	2 MINUTES (5 SEC/ROTATION)	2 MIN. & 40 SEC. (8 SEC/ROTATION)	1 MIN. & 20 SEC.* (10 SEC/ROTATION)

*Typical time required at rate shown until pipe falls out of clamp jaws.

Note: The overall clamp closure and release is not linear. For example, following the maximum safe rate of handle turning, the beginning of a 10 turn compression interval results in a much slower compression rate by the end of that particular interval. This assures that the PE pipe will have additional time to adjust during both the compression and release operations.

SAFETY FIRST!

- GROUNDING** If you are using this tool on PE pipe carrying natural gas, be sure to take all proper precautions to avoid static electrical buildup. Properly ground your *Topreach*[™] Tool, using accepted industry procedures with the attached grounding rod.

- REMOVE DEBRIS** Care must be taken to ensure that the pipe is clear of foreign material so the tool's jaws will not be closed around rocks, stones, tracer wires, or other debris.

- PROPER PIPE SETTINGS** For successful operation (and to prevent damage to either the tool or the pipe), the rotating sleeve on the adjustable jaw must be properly set for the appropriate pipe size being squeezed.

SQUEEZING-OFF

- Open clamp jaws and select pipe size. Rotate jaw sleeve so the correct pipe size lines up with selection arrow located on the arch.



- Place tool over pipe until the pipe is tight against the arches.



3. Close the jaws by rotating the Handle in a clockwise direction, following the closure rotation rates shown in the Safe Squeeze-off Guidelines Table for the *Topreach™ 250*.



4. DO NOT OVERTIGHTEN – stop when the clamp handles are closed!



5. Line up the Locking Holes in the Handle Bar and Security Bracket at the top of the Extension Tube. Place security pin or padlock through Locking Holes, and install appropriate safety tag.



RELEASE

It is very important to slowly release the clamp in order to avoid damaging the PE pipe. In addition, when used on pressurized water lines, a slow release is doubly important to prevent a surge from damaging equipment downstream.

6. Unlock the tool. Remove the locking pin or padlock from the Locking Holes in the Handle Bar.

7. Open the jaws by rotating the Handle counter-clockwise, following the release rate shown in the Safe Squeeze-off Guidelines Table for the *Topreach™ 250 Tool*. Avoid over cranking - lift the tool off the pipe when jaws are loose.

8. If recommended, re-round the pipe according to instructions provided by pipe manufacturer. Mark the location where the pipe was squeezed, to avoid a future squeeze at the same location.

SPECIFICATIONS

Timberline Tools are crafted of top quality high-tensile strength aluminum. They are heat-treated for superior strength and durability and will not bend or break under normal, proper use. They are unconditionally guaranteed for 1 year from date of purchase. Although perpendicular tool alignment is not required for effective squeeze-off, we recommend that the tool be within 15 degrees of perpendicular with respect to the pipe for best results on larger pipe sizes. We reserve the right to modify and improve our products at any time without obligation to notify or replace existing tools.

CARE AND MAINTENANCE

Keep the tool clean and free from abrasive dirt by wiping with a clean rag. This is a precision made tool - handle it with care and respect. Do not drop, throw, or drive over your Timberline tool.

OPTIONS

Popular options for the *TopReach™ Tools* include molded plastic storage/carrying cases, space-saving convertible handles, padlocks and jaw sleeves for pinching off pipe made of other materials. Please visit our website for further information on these products.

SERVICE

Please do not use this tool if you have any questions regarding its proper use. Your distributor can assist in training you regarding proper operation. In the event you have no local distributor, please visit our website or call us direct at (406) 755-4258. We also welcome your suggestions regarding your specific tool needs. Thank you for choosing Timberline Tool – The Choice of Working Professionals.



Topreach™ Tools Designed for SAFETY!

Timberline's exciting new *Topreach™ Tools* are convenient to use and allow squeeze-off of PE pipes from above the ground. These self-contained, lightweight, patented tools are made of strong and durable aluminum to provide years of non-rusting, trouble-free service. However, the most important factor in their growing popularity is the wide range of safety benefits they provide!

For the Operators...

- **Above-Ground Operation** – *Topreach™ Tools* permit squeeze off of PE pipe from outside the ditch. They are also very effective in small "keyhole access" openings!
- **Distance Yourself From Leaks** - With extended reach *Topreach™ Tools*, there is no need to "get close" to get the job done effectively.
- **Fast and Smooth Operation** - The fact that the *Topreach™ Tools* simply fit down over the pipe from the top - and require no excavation under the pipe - means you can control dangerous leaks quickly and safely. There is no complicated "learning curve" to cause delays or confusion during use.
- **Non-Sparking** - The all-aluminum construction, coupled with the permanently attached grounding rod, assures non-sparking operation.
- **Simple Locking** - The handle can be padlocked in the closed position to prevent any unauthorized opening of the clamp before repair work is completed.

...and PE Pipe, Too!

- **Limited Pipe Compression¹** - By simply rotating the jaw sleeve to select the proper pipe size (English or metric), the minimum gap is fixed to industry standards, and the tool cannot over-squeeze the pipe.
- **Controlled Squeeze/Release Rate^{2,3}** - The convenient handle operation permits smooth, easy control over the rates of PE pipe squeeze-off and release, preventing pipe damage.

Safe for Pipe, Too (continued)

- Large Rounded Jaws Safer for Pipe⁴ - The large radius on the machined jaw surfaces reduces localized stress on the pipe, and makes it possible to have a safe, more effective squeeze-off with less pipe compression.
- Safer Than Typical Double Bar Squeezers⁵ - The large radius on the jaws also makes *Toreach™ Tools* safer for the pipe and more effective than a "double bar" type of squeeze-off apparatus.
- Pipe Automatically Centered in Tool⁶ - The integral arches of the tool automatically center the pipe in the jaws when the tool is set down onto the pipe. No steel springs, visual guidance or other means are required to ensure proper positioning for a safe squeeze-off.
- Mechanism Prevents Inadvertent Clamp Release⁷ - The screw mechanism utilized in the *Toreach™ Tools* prevents uncontrolled quick release that could damage PE pipe.



Summary of Timberline *Toreach™ Tools*

Toreach™ MODEL #	# PIPE SIZES	RANGE OF PIPE SIZES	OVERALL LENGTH	CLEARANCE REQUIRED	WEIGHT
TR120	3	1/2" TO 1" (20-32mm)	19" (48 cm)	8" diameter (20 cm)	4 lbs (1.8 kg)
TR150	3	1/2" TO 1" (20-32 mm)	48" (122 cm)	8" diameter (20 cm)	7 lbs (3.2 kg)
TR250	4	1/2" TO 2" (20-63 mm)	51" (130 cm)	16" diameter (40 cm)	18 lbs (8.2 kg)

TECHNICAL FOOTNOTES:

1. PE pipe wall compression must be limited 30%; p. 1159, ASTM F 1563-94 and p. 2, ASTM F 1041-95.
2. Control compression rate to 2"/min. or less - p.63, "Volume 2: Technical Reference on Squeeze-off of PE Gas Pipes", 1992 for GRI by Battelle.
3. Control release to .5"/min. or less - p. 1159, ASTM F 1563-94 and p.2, ASTM F 1041-95.
4. Maximum safe flow reduction is function of the ratio: (jaw diameter)/(wall thickness) - p. 69, "Volume 2: Technical Reference on Squeeze-off of PE Gas Pipes", 1992 for GRI by Battelle.
5. Single jaw is more effective in squeeze-off (more complete flow reduction) and safer (less pipe compression) than clamp using two bars each half the diameter - p. 14, "Volume 2: Technical Reference on Squeeze-off of PE Gas Pipes", 1992 for GRI by Battelle .
6. Pipe needs to be centered in clamp and prevented from restriction on the sides - p. 1158, ASTM F 1563-94 and p. 2, ASTM F 1041-95
7. Premature release protection required to prevent unintentional release during operation - p. 2, ASTM F 1041-95