

Service Renewal: Safe T Stopper

Gas-Free open-gut service tee renewal or abandonment at 60-100 psi. Increase worker safety by eliminating the dangers of uncontrolled blowing gas.



How does it work?

1. The tool attaches a ball valve on top of the tee and creates a seal under a **cap** or around a **plug**.
2. Removes the cap or plug through the ball valve.
3. To stop the gas:
 - a. Insert rubber stopper below branch
 - b. Screw-in a self-tapping plug into the main at the base of the tee.
4. Now the tee can be abandoned or renewed according to company procedures

Works on many different tees without an internal stopper.



3/4"-2" Tees with Caps



3/4"-2" Tees with Plugs



1/2"-1 1/4" Punch Tees on a Saddle



3/4"-1 1/4" Mueller Tees Missing the Completion Plug.



BENEFITS

- No blowing gas providing a safe work environment.
- Reduces fitting and labor cost by eliminating stopple and by-pass.
- Reduce excavation cost by only uncovering the service and branch.
- Fast, efficient operation - complete a shut down in 30 minutes.

PLCS, LLC

102 Gaither Drive Unit 1
Mount Laurel, NJ 08054
(856) 722-1333 www.plcsusa.com info@plcsusa.com

Service Renewal: 125 PSI Safe T Stopper

Gas-Free open-gut service tee renewal or abandonment at 125 psi. This new tool enhancement increases worker safety by eliminating the dangers of uncontrolled blowing gas.

The tool secures a ball valve on the tee as the control point using a turnbuckle-style chain fastening system and unique sealing mechanism. Added safety specialized attachments and controlled feed remove the plug and stop the gas using either a rubber stopper or a unique screw-in plug. Now the tee is safely "cut and capped" or renewed without gas release.



Safely move away from blowing gas repair methods and save the costs of line stopper procedures at elevated pressures

Key Safety Features



Controlled tool feed.



Rock steady chain base.



Easy install stopper system.



J-Loop Collars offers added security.

Works on these tees without an internal stopper.



3/4"-2" Cap Tees



3/4"-2" Plug Tees



3/4"-1 1/4" Old Mueller Tees

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Service Renewal: Safe T Stopper Elbow Abandonment

Removes troublesome elbow swing services within 30 minutes



- Simple clamp-on assembly.
- No blowing gas, keeping workers safe.
- No need for expensive by-pass operations.
- Compact, only need a standard excavation.
- 60 psi rating.

OPERATION

1. Drill through the backside of the elbow.
2. Insert rubber stopper into nipple or elbow to stop the flow of gas.
3. Abandon service.

Abandons these fitting configurations.



1. Elbow on TOE Nipple

2. Street Elbow on a TOE Nipple

3. Street Elbow on a Coupling

KIT Description (add Base Tool)	Part #
3/4" to 1 1/4" Elbow Adapters c/w rubber plugs	54-EL7501250B
1" to 1 1/4" Elbow Adapters c/w rubber plugs	54-EL10001250B
3/4"-1" Dresser Elbow Adapter Add-On	54-DR7501000
3/4"-1-1/4" Male x Female Street Elbow Removal Add-On	54-MF750125
1"-1-1/4" Male x Female Street Elbow Removal Add-On	54-MF100125



Tool assembled on elbow.

Clamp-on housing provides seal and rock steady base.



Top view: Hole drilled and rubber plug inserted to stop the flow of gas.

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Service Renewal: Mechanical PE Tee Abandonment Tool

A gas-free tool to abandon leaking Mechanical PE Service Tees operating at a maximum of 60 psi on 1-1/4"-6" main without squeeze off procedures.



- Removes tee safely and Gas-Free.
- No squeeze-off.
- Sturdy lightweight construction.
- Fast and easy to install.
- Minimal training.
- Includes a safety clamp to ensure the tee is always held securely on the main during operation.



Operation



1. Install Safety Clamp



2. Install Adapter.



3. Remove Cutter.



4. Remove Sleeve.



5. Insert Plug.



6. Plug is in the main.



7. Operation Complete

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Service Renewal: Safe T Stopper Tool Kits



Add any Tee Adapter Kit to the Base Tool



Kit Type	Part #	Description
Base Tool	54-MSTS3000BV	Base Tool STS Enhanced
Cap Tee Adapter Kit	54-MSTS10001250	1"-1 ¼" Cap Kit
Cap Tee Adapter Kit	54-MSTS7501250	¾"-1 ¼" Cap Kit
Cap Tee Adapter Kit	54-MSTS150200	1 ½"- 2" Cap Kit Add On
Mueller Tee Adapter Kit	54-MUEL7501000	¾"-1" Mueller Tee Adapter Kit
Mueller Tee Adapter Kit	54-MUEL7501250	¾"-1 ¼" Mueller Tee Adapter Kit
Plug Tee Adapter Kit	54-750125STCPK	¾" to 1 ¼" Plug Adapter Kit
Plug Tee Adapter Kit	54-100125STCPK	1" to 1 ¼" Plug Adapter Kit
Plug Tee Adapter Kit	54-150200STCPK	1 ½"-2" Plug Adapter Add-On
Plug Tee Adapter Kit	54-PDRILL750200	¾"-2" Plug Drill Add-On
Punch Tee Adapter Kit	54-PUNCH50100	½"-1" Saddle Punch Tee Kit
Punch Tee Adapter Kit	54-PUNCH50125	½"-1-1/4" Saddle Punch Tee Kit
Elbow Service Adapter Kit	54-EL10001250B	1" to 1 ¼" Elbow Adapters Kit
Elbow Service Adapter Kit	54-EL7501250B	¾" to 1 ¼" Elbow Adapter Kit
Elbow Service Adapter Kit	54-DR7501000	¾"-1" Dresser Elbow Kit Add-On
Elbow Service Adapter Kit	54-MF100125	1"-1 1/4" Male x Female Street Elbow
Elbow Service Adapter Kit	54-MF750125	¾"-1 1/4" Male x Female Street Elbow
Flapper Valve Tee Kit	54-FLAP1250	1 ¼" Flapper Tee Adapter Package
Stopping Plug Kit	54-STRPKIT10001250	1"- 1 1/4" Self Tap/Rubber Plug Kit
Stopping Plug Kit	54-STRPKIT7501250	¾"- 1 ¼" Self Tap/Rubber Plug Kit
Stopping Plug Kit	54-STRPKIT7502000	¾"-2" Self Tap/Rubber Plug Kit

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Service Renewal: Self Tapping Plugs

Tighten into a round hole in steel pipe to stop the flow of gas.



24 TPI 4140 Nitride Harden Steel

- No tapping required. Plugs cut their own threads.
- Use with the Safe T Stopper for gas-free service tee abandonment.
- Hex head for easy tightening.
- Available in many sizes and lengths.



Tighten into pipe to plug the hole.



Short plugs available to leave a low profile within the pipe.



Sight glass view of service tee main hole to plug off.

	54-MTP250375E	Self Tap Plug 0.125"-0.350" Hex 1/4" x 1"L, pointed
	54-MTP500375	Self Tap Plug 0.125"-0.450" Hex 5/16" x 1"L, pointed
	54-MTP375	Self Tap Plug 0.250"-0.350" Hex 5/16" x 0.54"L
	54-MTP 500	Self Tap Plug 0.375"-0.450" Hex 5/16" x 0.54"L
	54-MTP625750	Self Tap Plug .500"-0.710" Hex 1/2" x 1"L
	54-MTP625375	Self Tap Plug 0.125"-0.580" Hex 1/2" x 1.36"L, pointed)
	54-MTP750875	Self Tap Plug 0.625"-0.830" Hex 1/2" x 1"L
	54-MTP12501000	Self Tap Plug 0.850-1.255 Hex 1/2" x 1.25"L
	54-MTP 625	Self Tap Plug 0.500"-0.580" Hex 1/2" x 0.54"L
	54-MTP 750	Self Tap Plug 0.625"-0.710" Hex 1/2" x 0.54"L
	54-MTP875	Self Tap Plug 0.750"-0.830" Hex 1/2" x 0.54"L
	54-MTP1000	Self Tap Plug 0.875"-0.950" Hex 1/2" Hex 1/2" x 0.54"L
	54-MTP1125	Self Tap Plug 1.150" Hex 1/2" x 0.54"L
	54-MTP1250	Self Tap Plug 1.220" Hex 1/2" x 0.54"L
	54-MTP1375	Self Tap Plug 1.320" Hex 1/2" x 0.54"L
	54-MTP1500	Self Tap Plug 1.450" Hex 1/2" x 0.54"L

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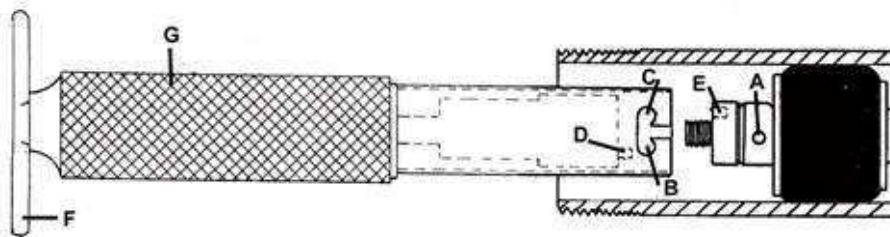
Service Renewal: Rubber Detachable Plugs

Specially designed to temporarily seal and stop off metallic or PE pipe remotely for fitting renewal or service line maintenance.



Plug Installation



1. Fit the plug into the end of the wrench and turn pin "A" into slot "B".
2. Turn the wrench handle "F" clockwise with one hand while holding the wrench at "G" with the other until pin "D" on the wrench drops into hole "E".
3. Insert the plug into the fitting or pipe.
4. Hold the wrench at "G" and turn handle "F" clockwise to expand the plug.
5. To remove the wrench push in slightly and turn clockwise to remove pin "A" out of slot "B" to disengage the plug.



Bayonet Mount

Pin must engage the off-set slot.

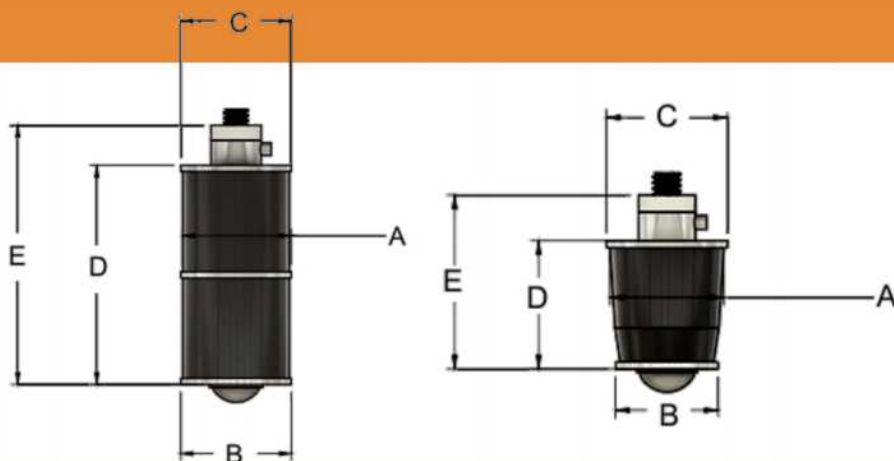


	<i>Reusable, rugged, and lightweight made from Nitrile rubber and plated steel</i>		<i>Two steel washers compressed together by tightening the central bolt using the Safe T Stopper Expander tool or the Special Expansion Plug Wrench.</i>
54-100179-10	3/4" EXPANDER PLUG	54-100179-50	3/4" CTS/IPS DOUBLE EXPANSION PLUG
54-100179-10S	3/4" EXPANDER PLUG SPECIAL		
54-100180-10	1" EXPANDER PLUG	54-100181DL	1" IPS DOUBLE EXPANSION PLUG
54-100181-10	1 1/4" EXPANDER PLUG	54-100180DL	1" CTS DOUBLE EXPANSION PLUG
54-100181-10S	1 1/4" EXPANDER PLUG SPECIAL	54-100181-50	1 1/4" IPS DOUBLE EXPANSION
54-100182-10	1 1/2" EXPANDER PLUG	54-100182-50	1 1/2" IPS DOUBLE EXPANSION
54-100183-10	2" EXPANDER PLUG	54-100184DL	2" IPS DOUBLE EXPANSION PLUG
54-100185-10	12" Expansion Plug Wrench	54-100187-10	24" Expansion Plug Wrench
54-100186-10	18" Expansion Plug Wrench	54-100188-10	36" Expansion Plug Wrench

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Service Renewal: Rubber Detachable Plugs



Material: Plated Steel & Nitrile Rubber			B	C	Dimensions (in)		E	D	A	A
Part#	Size	Wt.	Min Washer	Max Washer	Min Pipe ID	Maxi Pipe ID	Plug Length	Rubber Length	Rubber Min Dia.	Rubber Max Dia.
54-1000185-10	1/2" CTS	0.10	0.25	0.300	0.439	0.550	1.750	1.130	0.594	0.781
54-100178-10	1/2" IPS	0.10	0.375	0.438	0.594	0.622	1.750	1.130	0.594	0.781
54-100179-10	3/4" IPS	0.10	0.625	0.740	0.813	0.824	1.750	1.130	0.813	1.130
54-100179-10S	3/4" CTS	0.10	0.500	0.718	0.685	0.742	1.750	1.130	0.685	1.000
54-100180-10	1" IPS	0.10	0.781	0.875	0.875	1.049	1.750	1.130	0.875	1.250
54-100179-10	1" CTS	0.10	0.781	0.875	0.750	1.000	1.750	1.130	0.719	1.000
54-100181-10	1 1/4" IPS	0.20	1.031	1.125	1.130	1.380	1.875	1.188	1.130	1.440
54-100181-10S	1 1/4"	0.20	1.125	1.281	1.281	1.380	1.875	1.188	1.130	1.440
54-100182-10	1 1/2" IPS	0.30	1.375	1.375	1.380	1.610	1.810	1.188	1.380	1.750
54-100183-10	2" IPS	0.30	1.820	1.910	1.940	2.067	1.880	1.188	1.940	2.310
54-100179-50	3/4"	0.13	0.625	0.740	0.813	0.824	2.500	2.063	0.813	0.824
54-100180DL	1" CTS	0.13	0.781	0.875	0.750	1.000	2.500	2.063	0.719	1.000
54-100181DL	1" IPS	0.13	1.031	1.031	0.875	1.029	2.500	2.219	0.875	1.250
54-100181-50	1 1/4" IPS	0.25	1.281	1.281	1.281	1.360	2.625	2.375	1.250	1.360
54-100182-50	1 1/2" IPS	0.38	1.375	1.375	1.375	1.590	2.625	2.375	1.375	1.590
54-100184DL	2" IPS	0.38	1.820	1.820	1.820	2.047	2.625	2.375	1.750	2.047

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Service Renewal: Tapered Weld Plugs

Steel weld plugs to permanently seal off gas services or pipe ends.

- ▶ Quickly abandon pipe ends.
- ▶ Weld into place in minutes.
- ▶ Perfect for service cut offs.



Insert into opening.



Knock into place.



Weld around edges to seal pipe.



54-MSTS 1023A	3/4" Tapered Weld plug for Mueller No Blow 3/4"
54-MSTS 1012A	3/4" Tapered Weld plug for 3/4" SCH 40 Pipe
54-MSTS 1013A	3/4" Tapered Weld plug for 3/4" SCH 80 Pipe
54-MSTS 1023B	1" Tapered Weld plug for Mueller No Blow 1"
54-MSTS 1012B	1" Tapered Weld plug for 1" SCH 40 Pipe
54-MSTS 1013B	1" Tapered Weld plug for 1" SCH 80 Pipe
54-MSTS 1012C	1 1/4" Tapered Weld plug for 1 1/4" SCH 40 Pipe
54-MSTS 1013C	1 1/4" Tapered Weld plug for 1 1/4" SCH 80 Pipe
54-MSTS 1023C	1 1/4" Tapered Weld plug for Mueller No Blow 1 1/4"
54-MSTS 1013D	1 1/2" Tapered Weld plug for 1 1/2" SCH 40 Pipe
54-MSTS 1012D	1 1/2" Tapered Weld plug for 1 1/2" SCH 80 Pipe
54-MSTS 1012E	2" Tapered Weld plug for 2" SCH 40 Pipe
54-MSTS 1013E	2" Tapered Weld plug for 2" SCH 80 Pipe

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Service Renewal: Basement Tee Replacement Tool

Replace or abandon inside 3/4"-2" low pressure service tees and fittings without blowing gas or outside excavations.



BENEFITS

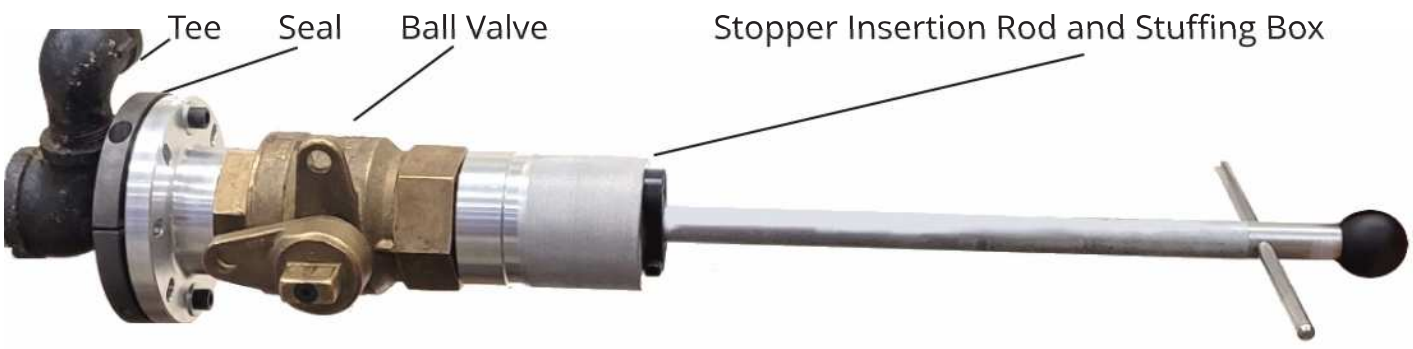
- Safe and Gas-Free
- Use on equal or reducing tees
- Sturdy lightweight construction
- clamp -on assembly
- Uses one 9/16" wrench
- Fast and easy to install in tight places

OPERATION - Minimal training

1. The tool seals on the tee.
2. Remove the cap or plug.
3. Insert a stopper into the service pipe, to stop the gas.
4. Renew fittings and retrieve the stopper.
5. Now service is back online without blowing gas.



Gas-Free Modular System



Versatile: Choice of 3 Stopper Types Depending on Fitting

Reducing Tee with a Cap



Equal Tee with a Plug

