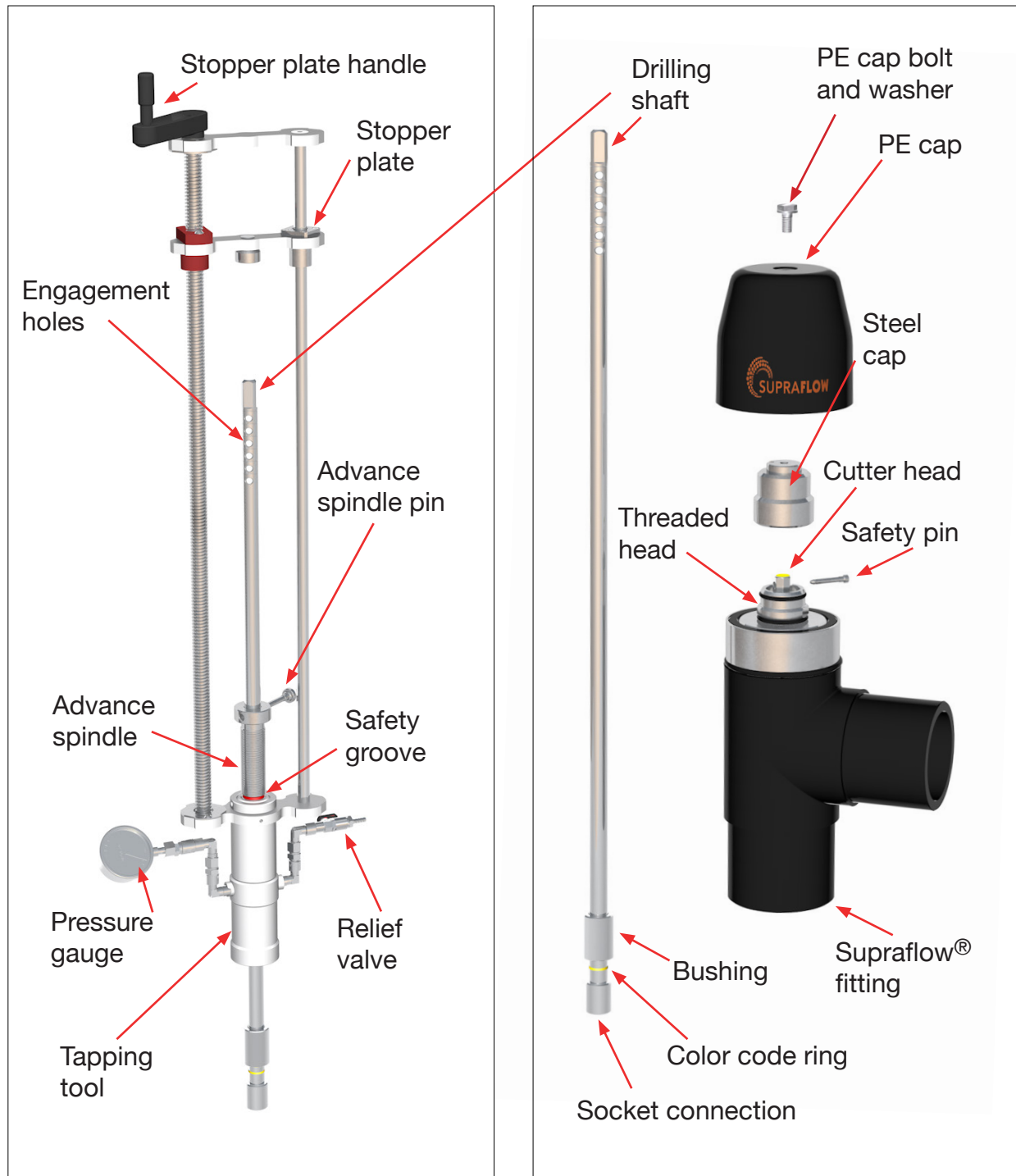


Step by Step Supraflow® Tapping Instructions

These instructions are for Supraflow® Gas Tapping Tees and Tapping Tools
125 psi for gas

Read these instructions carefully before proceeding

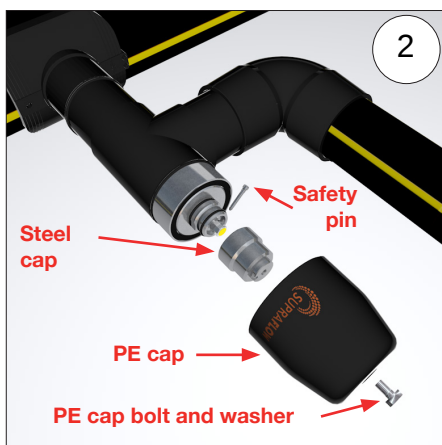
Tapping Tool Equipment and Supraflow® Gas Tapping Tee expanded view



1 A branch saddle compliant with Supraflow® fitting instructions must be used. Ensure that the branch saddle and tee outlet are fused according to manufacturer's recommendations and industry standards to provide a pressure tight assembly.

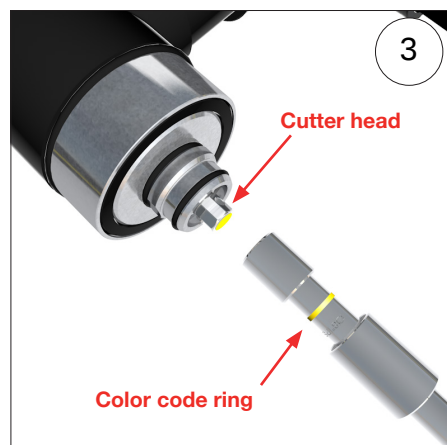
IMPORTANT: Before attaching saddle ensure pipe in the immediate area is straight and round.

Note: For pressure tests ALWAYS remove the Supraflow® PE and Steel Caps and soap test before energizing branch.



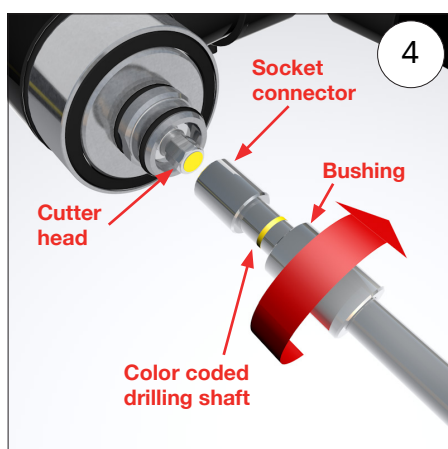
FITTING SET UP

Using wrenches provided, remove (counterclockwise) **PE cap bolt and washer**, **PE cap**, and **steel cap**. Pull out **safety pin**. Keep everything to the side, **DO NOT** lose these parts.



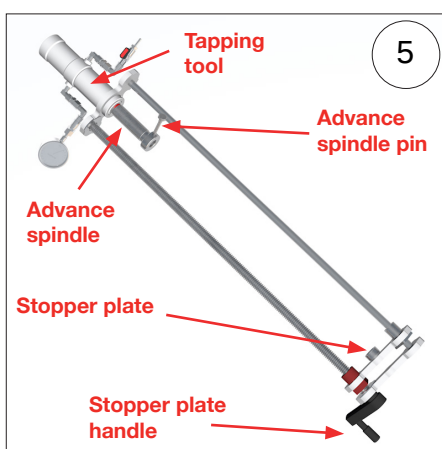
DRILLING SHAFT CHOICE

Check color mark on top of the **cutter head** and select drilling shaft with matching **color code ring**, except when using 4x4" MTD saddle.



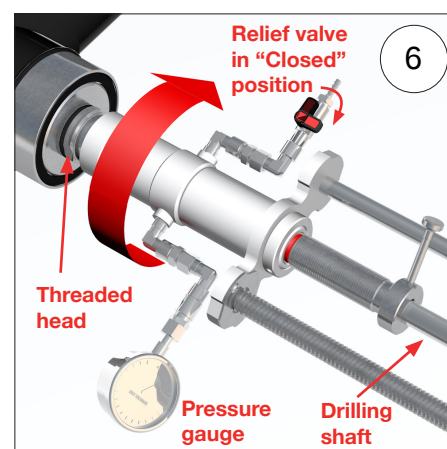
DRILLING SHAFT ATTACHMENT

Attach drilling shaft **socket connector** to **cutter head**, slide **bushing** over **socket connector**, and **ROTATE bushing** (clockwise) by hand, until it bottoms out. Pull drilling shaft to check it is correctly engaged.



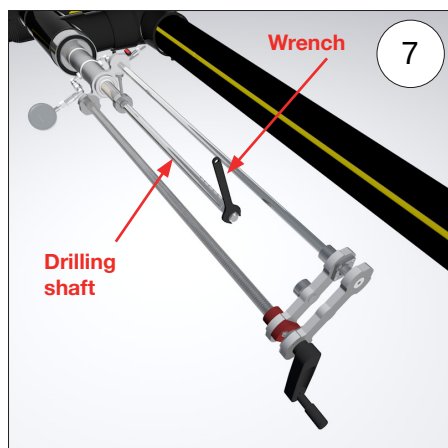
TAPPING TOOL SET UP

Ensure that: **advance spindle** is in start position (safety groove can be seen), **advance spindle pin** is disengaged (it will not completely detach), and **stopper plate** is fully retracted (rotate **handle** clockwise).



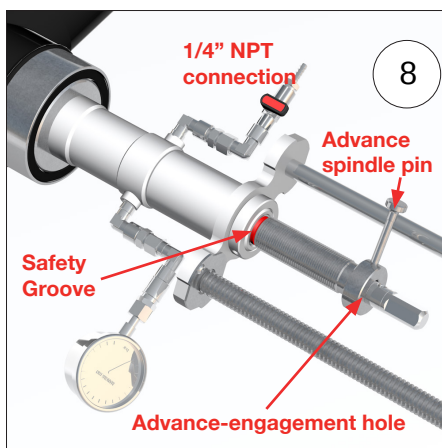
TAPPING TOOL ATTACHMENT

Slide it over/onto the **drilling shaft** and rotate (clockwise) onto Supraflow **threaded head**, by hand, until it bottoms out. Attach **pressure gauge** provided to quick-connect port/close **relief valve**.



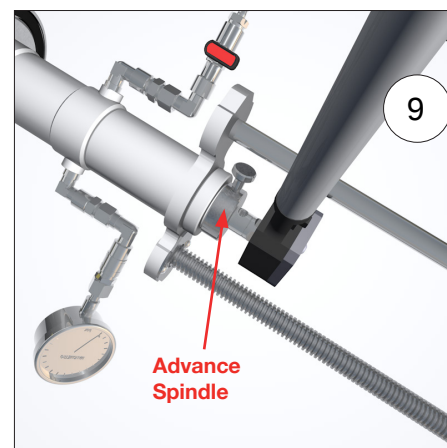
CUTTER RELEASE

Use **wrench** provided, to rotate **drilling shaft** (approximately 6 clockwise rotations) until cutter is released from its threaded housing and push drilling shaft until cutter is in contact with the pipe main.



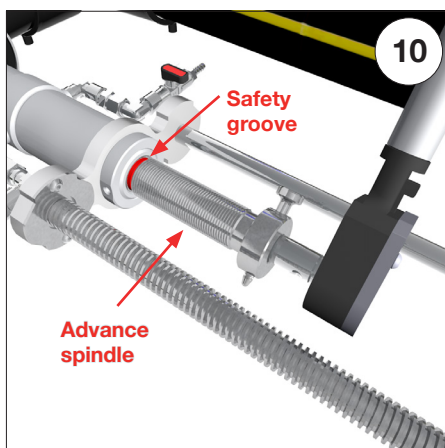
DRILLING SHAFT ENGAGEMENT

Align so the **Safety Groove** is just visible. Line-up first **advance engagement hole** available in drilling shaft and re-engage **advance spindle pin**.



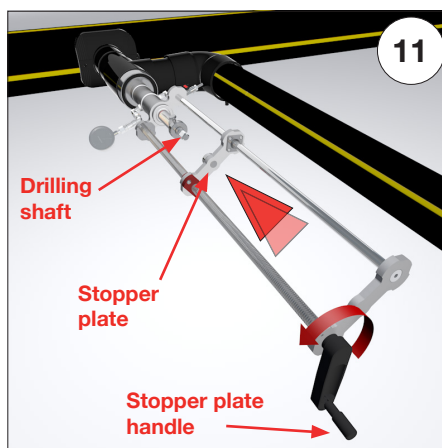
START TAPPING

Attach ratchet wrench provided to drilling shaft and rotate it (clockwise) to forward cutter through pipe main until **advance spindle** bottoms out. **DO NOT** attach any power drives to drilling shaft.



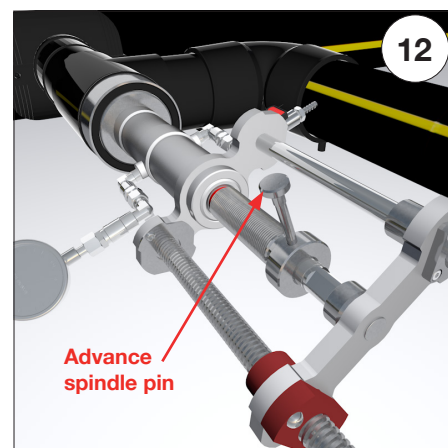
TAPPING COMPLETION

Reverse ratchet wrench and bring **advance spindle** back (counterclockwise) to start position. STOP retrieval of advance spindle as soon as **safety groove** is initially visible. FOR SAFETY REASONS, DON'T UNTHREAD BEYOND **RED** safety groove.



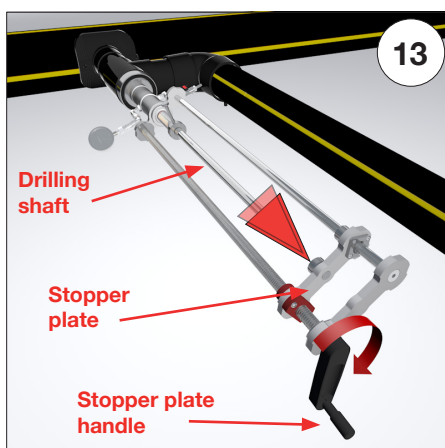
BACKPUSH CONTROL

Before disengaging advance spindle pin, rotate **stopper plate handle** (counterclockwise) until **stopper plate** contacts **drilling shaft**. Skip step if using low-pressure tapping tool.



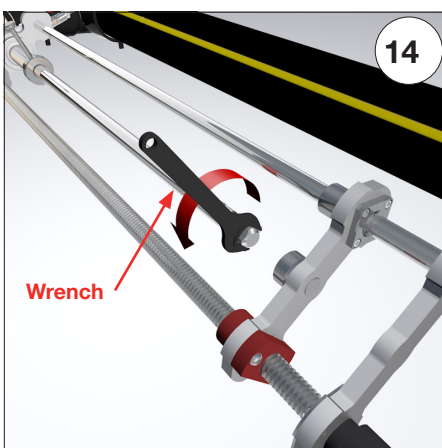
ADVANCE SPINDLE PIN DISENGAGEMENT

Safely pull out **advance spindle pin** (it will not completely detach). Back-push pressure on the drilling shaft is withheld by stopper plate.



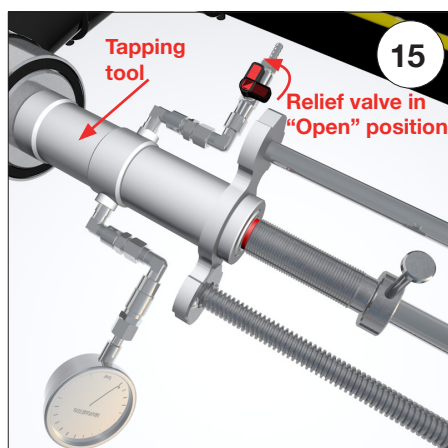
DRILLING SHAFT RETRACTION

Rotate **stopper plate handle** (clockwise) until it bottoms out. Ensure that **drilling shaft** travels with **stopper plate**; if pressure is not pushing **drilling shaft** out, pull it manually until it can no longer be retracted.



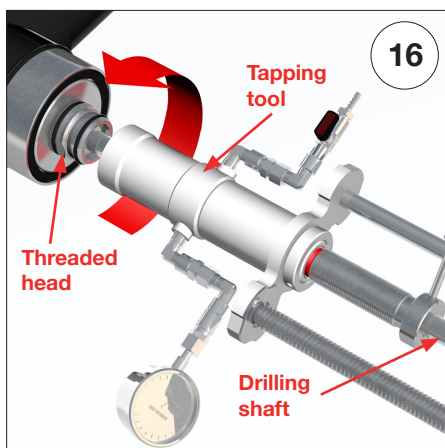
SECURE CUTTER

Use **wrench** provided to rotate drilling shaft (approximately 6 counterclockwise rotations) until cutter is firmly tightened in its housing.



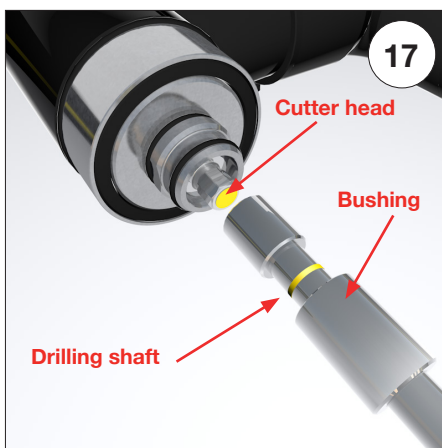
PRESSURE RELIEF

Release the pressure remaining inside **tapping tool** by opening **relief valve** before removing **tapping tool**. If gas keeps flowing (cutter not properly secured), close **relief valve** and return to step 15.



TAPPING TOOL REMOVAL

Rotate **tapping tool** (counterclockwise) until released from **threaded head** and slide it off the **drilling shaft** (still attached to cutter). Thoroughly clean **tapping tool** and **gauge**, and store in tooling case.



DRILLING SHAFT REMOVAL

Rotate **bushing** (counterclockwise) by hand until it is no longer attached to **cutter head** and pull **drilling shaft** off. Clean **drilling shaft** and store in tooling case. Check for leaks around cutter head.



INSTALLATION COMPLETION

Re-insert **safety pin**. Using wrench provided, rotate **steel cap** (clockwise) onto **threaded head** until firmly tightened. Re-insert **PE cap**, and use wrench provided to secure **PE cap bolt** and **washer** (clockwise).

SUPRAFLOW® TAPPING INSTRUCTIONS

125 psi for gas

Warning !

Torre Gas S.L. guarantees the correct performance of its products, according to their technical specs and instructions of use, and accepts no liability for whatever misuse of them.

Do's and Don'ts



Always follow the given steps and guidance. Do not eliminate any steps or attempt shortcuts. Contact your supplier for guidance if any steps are unclear.



In the event of malfunction or broken components, stop operation and contact your supplier immediately.



All parts must be thoroughly cleaned after use and before storing back in tooling case.



Never attempt to repair or replace any part of equipment. Only authorized service is entitled to do repairs and replacements on equipment.



NO CLAIMS ON THE EQUIPMENT OR ITS PERFORMANCE WILL BE ACCEPTED IF NOT COMPLYING WITH THE SAFETY WARNINGS ABOVE

Supraflow® video
installation instructions



Supraflow® Tee branch saddle & shaft choice guidelines (DR11)

The information contained herein is provided for convenience only, without warranty or guarantee of any kind, either express or implied. No party should rely on such information without prior independent verification. This information is subject to change at any time without prior notice.

Branch saddles meeting the "S" and "A" dimensions required in the Supraflow® Tee instructions, and welding options available

SADDLE SIZE MANUFACTURER	4"x 3"	4"x 4"	6"x 4"	8"x 4"	12"x 4"	6"x 6"	8"x 6"	12"x 6"	18" x 6"	8"x 8"	10"x 8"	12"x 8"
GFCP		✓	✓	✓	✓		✓	✓	✓		✓***	✓***
MT DEASON		✓*	✓	✓	✓	✓	✓	✓		✓		✓
NUPIGECO	✓**		✓	✓	✓	✓						
PLASSON (1)		✓	✓	✓								

(1) Remove the test tube completely from all Plasson saddles before welding the saddle to the T, in accordance with the Supraflow Tee Instructions

* Because the outlet of the MTD saddle is longer than specifications, the yellow shaft must be used and only utilizing the second hole from bottom, with 5 holes visible. Failure to follow this instruction could allow the cutter to drill into the opposite pipe wall I.D.

** For this drilling size, the white shaft is required

*** Remove the saddle protrusions before welding it to the Tee



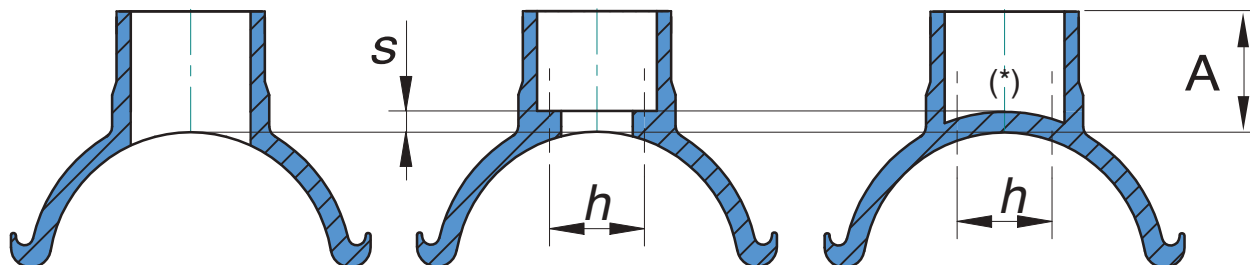
TSP4IPS10

4"IPS outlet (3.11" drill)

Suitable for 4" IPS PE pipe only (DR11 to DR17)



BEFORE BUTT/ELECTRO FUSING SADDLE & TEE **VERIFY** THAT (S), (h) and (A) DIMENSIONS OF THE BRANCH SADDLE **MEET THE REQUIREMENTS** IN THE TABLE BELOW



Branch Saddle	S	h	A
4" x 4" IPS GFCP SADDLES & OTHERS	0.79" max 0.00" min	- 3.11" min	4.13" max 3.86" min
4" x 4" IPS MTD SADDLES	0.39" max 0.00" min	- 3.11" min	5.00" max 4.90" min

(S) Saddle lip (solid or as a sleeve) max. thickness

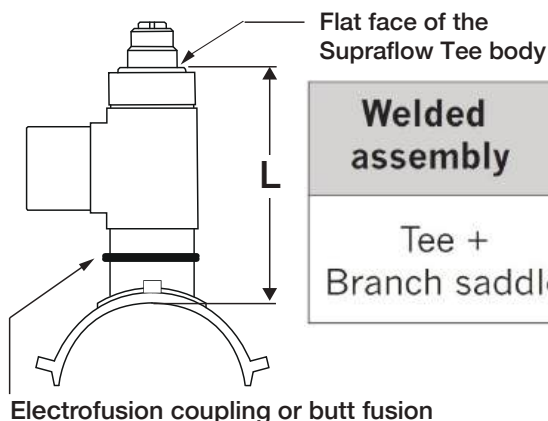
(h) Permitted hole saw by saddle manufacturer, after fusing

(A) Saddle outlet height

(*) Any saddle's testing port must be removed leaving a lip compliant with (S) dimension



THE **OVERALL HEIGHT (L) OF THE WELDED ASSEMBLY** OF THE BRANCH SADDLE AND THE SUPRAFLOW TEE **MUST MEET THE DIMENSIONS** IN THE TABLE BELOW



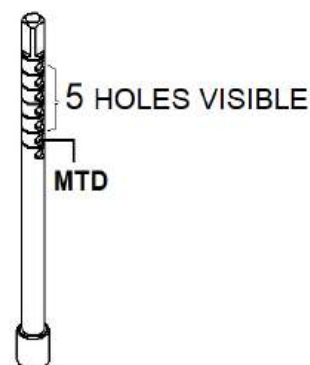
Welded assembly	L	
	With GFCP & other saddles	With MTD saddles
Tee + Branch saddle	16.50" max 15.65" min	17.50" max 16.70" min



If you use GFCP Saddles ORANGE SHAFT

If you use MTD Saddles YELLOW SHAFT

ONLY UTILIZING THE SECOND HOLE FROM BOTTOM MARKED MTD IN THE DRAWING AT RIGHT, WITH FIVE (5) HOLES VISIBLE. FAILURE TO FOLLOW THIS INSTRUCTION COULD ALLOW THE CUTTER TO DRILL INTO THE OPPOSITE PIPE WALL I.D.





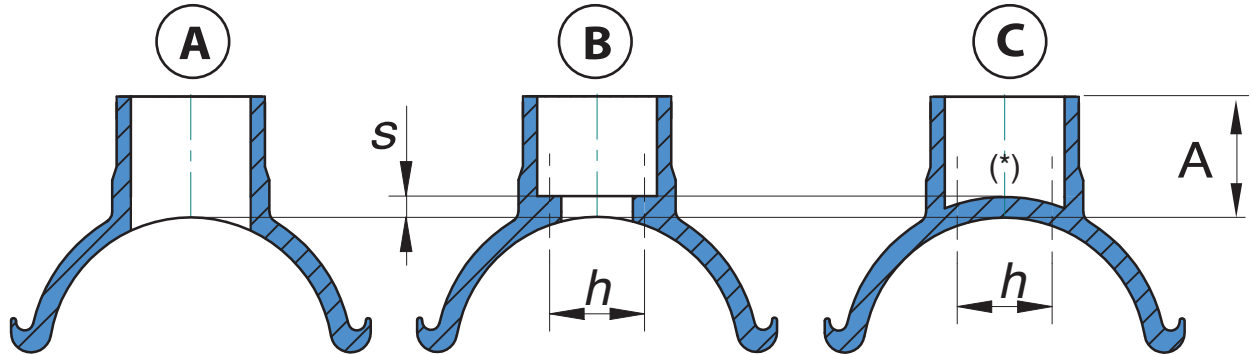
TSP4IPS9

4"IPS outlet (3.11" drill)

Suitable for 6" to 12" IPS PE pipe (DR11 to DR17)



BEFORE BUTT/ELECTRO FUSING SADDLE & TEE **VERIFY** THAT (S), (h) and (A) DIMENSIONS OF THE BRANCH SADDLE **MEET THE REQUIREMENTS** IN THE TABLE BELOW

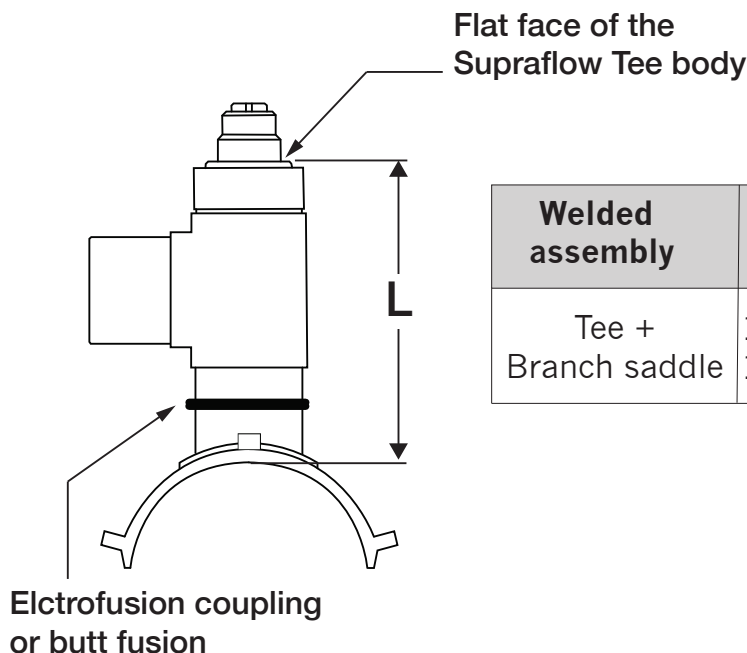


- (S) Saddle lip (solid or as a sleeve) max. thickness
- (h) Permitted hole saw by saddle manufacturer, after fusing
- (A) Saddle outlet height
- (*) Any saddle's testing port must be removed leaving a lip compliant with (S) dimension

Outlet size	Type	S	h	A
4" IPS	A B	0.79" max 0" min	3.11" min	6.20" max 4.00" min
	C	0.63" max 0.00" min	3.11" min	6.20" max 4.00" min



THE **OVERALL HEIGHT (L) OF THE WELDED ASSEMBLY** OF THE BRANCH SADDLE AND THE SUPRAFLOW TEE **MUST MEET THE DIMENSIONS** IN THE TABLE BELOW



Welded assembly	L
Tee + Branch saddle	18.60" max 15.80" min



102 Gaither Drive, Unit 1 Mt. Laurel, NJ 08054

April 28th, 2026

Further Clarity on Supraflow 4" x 4" Tees for 4" Mains

90-TSP4IPS9 4" x 4" Tee (6" – 18" IPS Main with 3.1" Cutter)

90-TSP4IPS10 4" x 4" Tee (4" IPS Main ONLY with 3.1" Cutter)

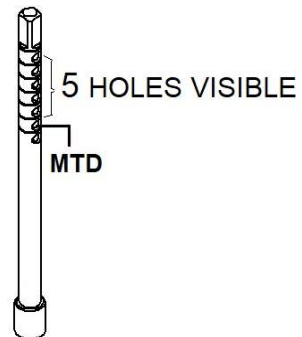
The Supraflow TSP4IPS9 and TSP4IPS10 are functionally identical (they are the same tee and cutter, for example) and originally designed for use with one specific manufacturers saddle and so only one installation instruction was needed. Over time more manufacturers branch saddles have been introduced that required an update to the instructions to accommodate the variation in length of the outlet branches and so we needed to adjust the travel depths of the cutting shafts when installing 4" x 4" Supraflow Tees on 4" main saddles.

Selecting the correct shaft is essential to avoid risks during the drilling operation. Installing a TSP4IPS10 on a 4" x 4" George Fischer/Central Plastics saddle requires a different shaft than installing on an ISCO/MT Deason 4" x 4" saddle. To simplify directions the orange color code on the top of the cutter in TSP4IPS10 4" x 4" saddles for 4" Mains ONLY has been removed leaving it with no color, and the following shaft selection/directions is permanently adhered to every TSP4IPS10 4" x 4" tee (see below) and in the instructions.

4" Supraflow on 4" MTD Saddles ONLY

The **YELLOW** shaft **MUST** be used and **ONLY** utilizing the hole shown in the schematic at right with five holes showing.

Failure to follow this instruction could allow the cutter to drill into the opposite pipe wall I.D.



Please contact PLCS direct or your area sales contact with any questions you may have.

Sincerely,

David R. Payne
President and CEO
PLCS, LLC



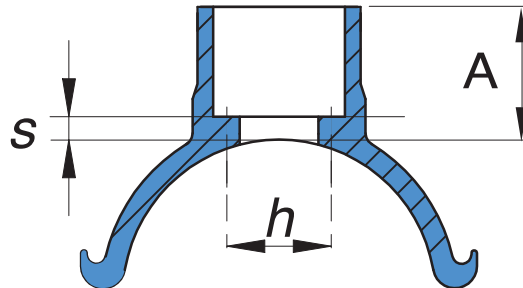
TSP6IPS2

6"IPS outlet

Suitable for 6" to 18" IPS PE pipe (DR11 to DR17)



BEFORE BUTT/ELECTRO FUSING SADDLE & TEE **VERIFY** THAT (S), (h) and (A) DIMENSIONS OF THE BRANCH SADDLE **MEET THE REQUIREMENTS** IN THE TABLE BELOW

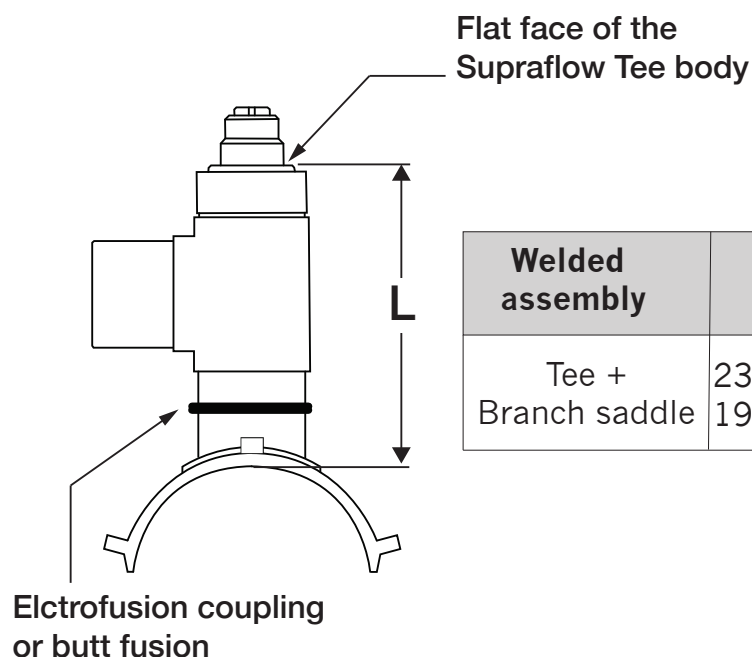


- (h) Permitted hole saw by saddle manufacturer, after fusing
(S) Saddle lip (solid or as a sleeve) max. thickness
(A) Saddle outlet height

Outlet size	S	h	A
6" IPS	0.79" max 0.00" min	4.53" min	9.00" max 5.40" min



THE **OVERALL HEIGHT (L) OF THE WELDED ASSEMBLY** OF THE BRANCH SADDLE AND THE SUPRAFLOW TEE **MUST MEET THE DIMENSIONS** IN THE TABLE BELOW



Welded assembly	L
Tee + Branch saddle	23.80" max 19.65" min



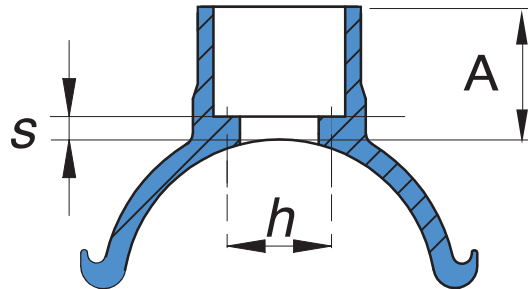
TSP8IPS2

8"IPS outlet (6.30" cutter)

Suitable for 8" to 18" IPS PE pipe (DR11 to DR17)



BEFORE BUTT/ELECTRO FUSING SADDLE & TEE **VERIFY** THAT (S), (h) and (A) DIMENSIONS OF THE BRANCH SADDLE **MEET THE REQUIREMENTS** IN THE TABLE BELOW

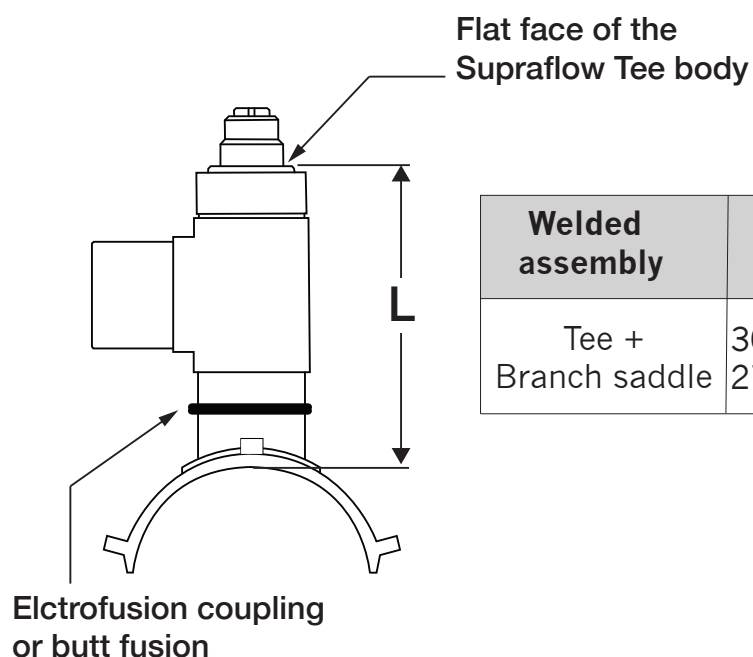


- (h) Permitted hole saw by saddle manufacturer, after fusing
- (S) Saddle lip (solid or as a sleeve) max. thickness
- (A) Saddle outlet height

Outlet size	S	h	A
8" IPS	0.31" max 0.00" min	6.30" min	9.00" max 6.50" min



THE **OVERALL HEIGHT (L) OF THE WELDED ASSEMBLY** OF THE BRANCH SADDLE AND THE SUPRAFLOW TEE **MUST MEET THE DIMENSIONS** IN THE TABLE BELOW



Welded assembly	L
Tee + Branch saddle	30.35" max 27.25" min