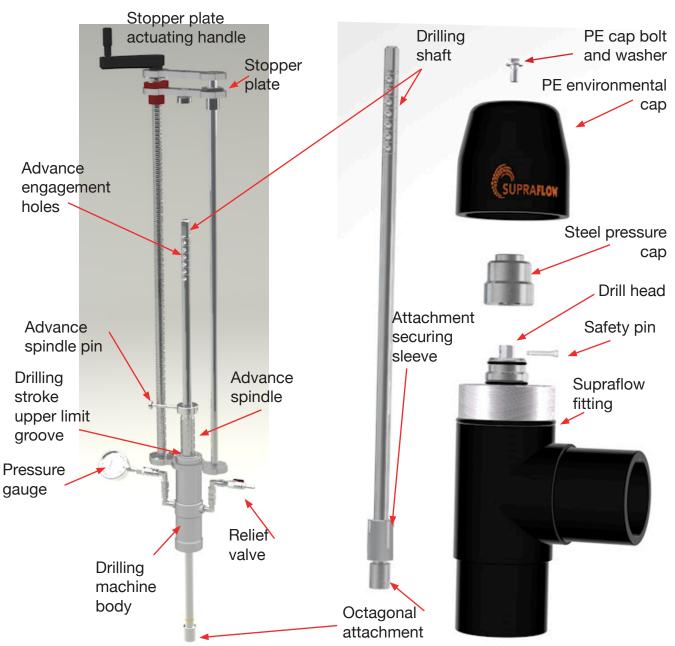
SUPRAFLOW DRILLING INSTRUCTIONS April 9, 2019

150 psi for gas / 230 psi for water tapping tool 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.

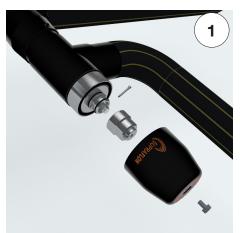
REFER TO STEP-BY-STEP INSTRUCTIONS ON LAST PAGE

Supraflow and drilling Equipment Exploded View

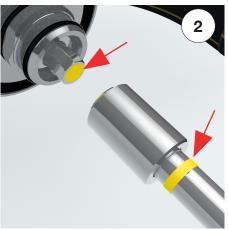




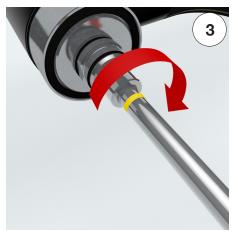




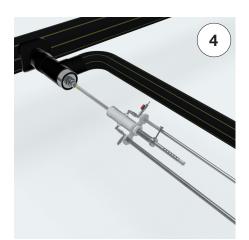
Remove PE and steel caps. Remove safety pin. Keep everything aside.



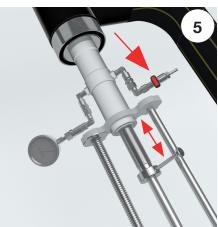
Select shaft matching color code and mount.



Attach shaft to drilling head and screw bushing in, until it bottoms out.



Mount drilling tool. Stopper plate in upmost position.



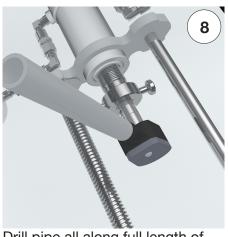
Maximum stroke on advance spindle deployed and relief valve closed.



Release drill shaft turning CW, and push into Supraflow until main is contacted.



Line-up first available hole and engage advance pin. (see note a1)



Drill pipe all along full length of advance spindle, with ratchet wrench.



Once finished, reverse ratchet and bring advance spindle back to start, ...



... until safety groove shows up.

Crank stopper plate down and contact top of drilling shaft.

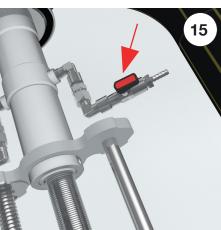
Pull out advance spindle pin.



Crank stopper plate upmost back. Pull shaft if pressure don't push it.



Secure drill turning CCW.



Release pressure opening relief valve.



Remove drilling tool.



Unscrew bushing CCW, and remove shaft. see note a2)



Insert safety pin and close both steel and PE caps.

STEP-BY-STEP SUPRAFLOW DRILLING INSTRUCTIONS

- 1 Remove both PE and steel cap (CCW). Pull the safety pin out. Keep everything aside
- 2 Check color code on the drilling head and select matching shaft
- **3** Attach drilling shaft to drilling head and screw bushing onto cutter (CW). Screw down completely (3 revolutions or more) until it bottoms out.
- **4 -** Pull out the pin on top of the advance spindle it will not come all the way out. Ensure the stopper plate is in the upper most position. Mount drilling tool on the drill shaft, screw on CW
- 5 Ensure the advance spindle is in the outer most position and the relief valve is closed
- 6 Release drill shaft by turning CW 6 turns. Push drill shaft into Supraflow until main pipe is contacted
- 7 Line-up first available hole in the shaft and engage advance spindle pin
- 8 Drill through main pipe using ratchet wrench along the full length of advance spindle
- 9 Once stroke finished, reverse wrench and bring advance spindle back to start position, ...
- **10 ...** until safety groove on the advance spindle shows up, then **stop**.
- **11** Crank stopper plate down and contact top of drilling shaft. This step not required for main pressures under 30 psi
- 12 Pull out advance spindle pin
- **13** Crank stopper plate back to upper most position. Pull drill shaft out if main pressure does not push it out. Ensure it is in the upper most position
- 14 Secure drill shaft in Supraflow housing by turning CCW 6 turns
- 15 Relieve pressure inside the drilling tool using the relief valve
- 16 Remove drilling tool (unwind CCW)
- 17 Unscrew bushing (CCW) to remove shaft
- 18 Insert safety pin back and firmly screw the steel cap (CW). Close unit with PE cap, secure with screw (CW) / Weld PE cap if installing Extended version
- a1) Before drilling, test for leaks can be done through connection on the machine body
- a2) Before caping, proceed to test for leaks with soapy water and clean thoroughly after



These instructions are for all Supraflow and tool models.

