

iTAP™

Internal Reinstatement of Service Connections

Insituform Blue™

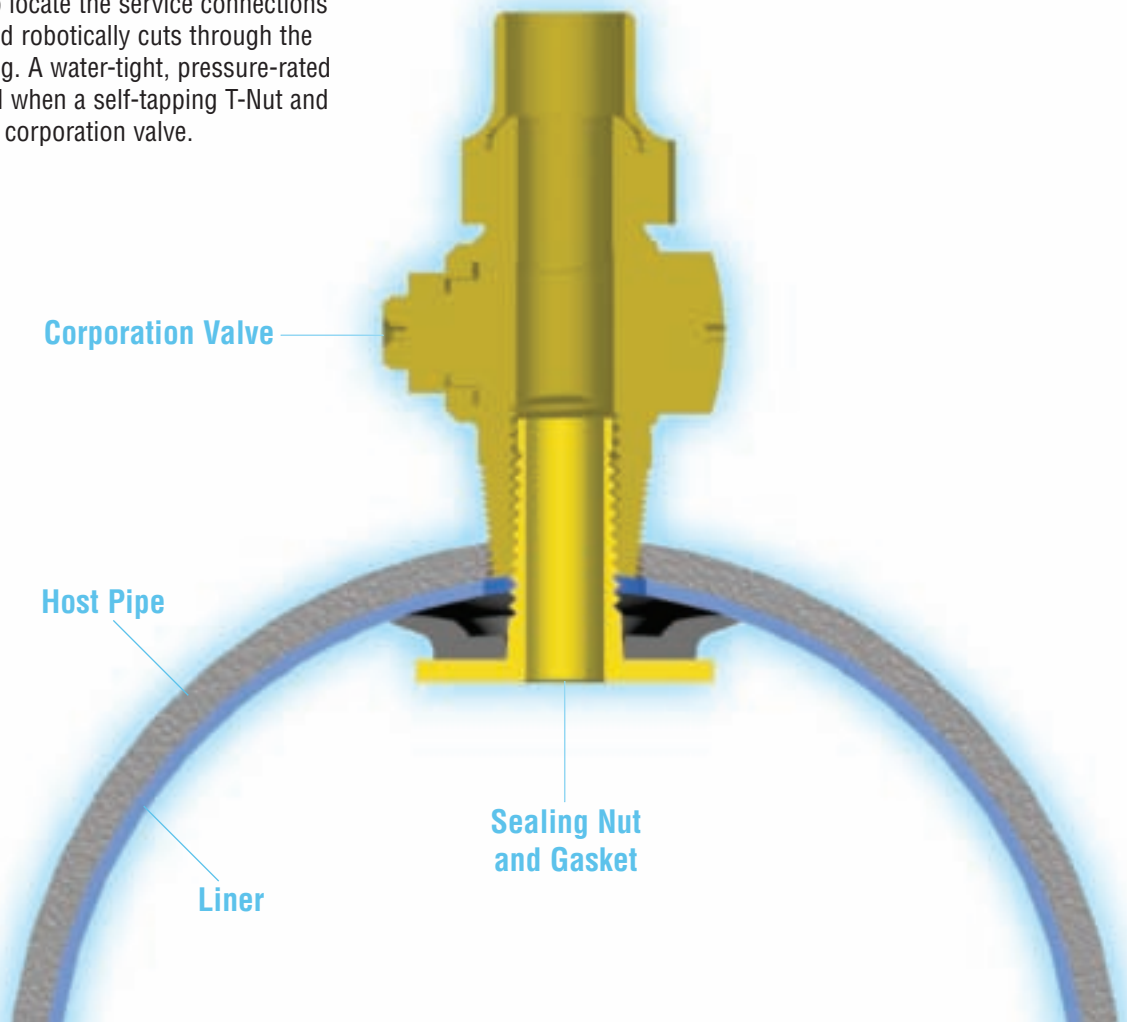


iTAP™ will change the way the world looks at drinking water pipe rehabilitation. iTAP™ is a robotic method of reinstating service connections from inside the main. Traditionally, holes were excavated at each service connection when a water distribution mainline was renewed with a trenchless process. iTAP™ allows you to save time and avoid the added costs and disruptions of digging. Utilizing iTAP™, Insituform Blue™ provides a non-disruptive rehabilitation solution for pressure pipes when using Thermopipe®, PolyFlex™ or PolyFold™ lining systems.

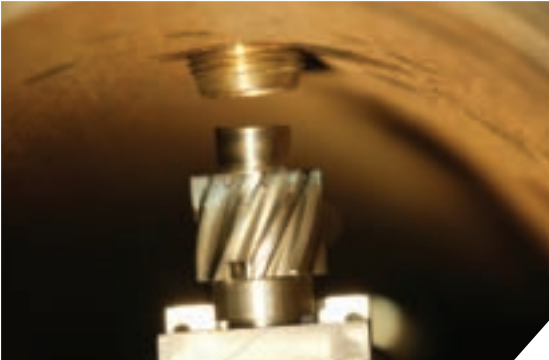
During the iTAP™ process, a remote operator uses an innovative technology to locate the service connections from inside a lined main and robotically cuts through the liner at each service opening. A water-tight, pressure-rated mechanical seal is achieved when a self-tapping T-Nut and gasket are installed in each corporation valve.

iTAP™ is the solution for reinstating service connections for pressure pipes rehabilitated with trenchless technologies:

- No digging required, minimising construction and social cost
- Innovative service connection location technology
- Distribution pipe diameter range of 150 to 300 mm
- Seal tested to 20+ bar
- Mechanical seal provided by brass nut and gasket
- Rapid installation



iTAP™ Installation Process



Step 1:

Prelining survey and milling of corporation valves.

Existing corporation valves often protrude into the pipe and can be disruptive to the trenchless rehabilitation process. The protruding ends of the corporation valves are robotically removed.



Step 2:

Lining. The deteriorated host pipe is renewed using one of Insituform Blue's™ non-disruptive rehabilitation processes: Thermopipe®, PolyFlex™ or PolyFold™.



Step 3:

Locating service connections and cutting lining.

A remote operator locates each service connection using eddy current technology, an innovative, electronic method of detection. Once the connection is located, a milling head cuts through the liner.



Step 4:

Installation of seal. A water-tight, pressure-rated mechanical seal is achieved when a self-tapping T-Nut and gasket are installed in each corporation valve.

Insituform Blue™ drinking water lining products are certified by NSF to comply with the requirements of NSF/ANSI Standard 61.



Insituform®

Clean water for the world.

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