



Permalok® T-5 Joint

Commonly produced to exacting specifications of AWWA or ASTM, the Permalok® joint utilizes a precision machined interference fit that eliminates the need for time-intensive field-applied butt welds on trenchless installations of casing pipes. The pre-installed precision joint connection, which is flush with the interior and exterior surfaces of the pipe, quickly, easily, and permanently joins each piece of steel casing pipe on a project. Its unique stepped profile makes stabbing and aligning simple and expeditious.

Combined with the use of a sealant such as RTV Silicone, the Permalok® joint design will not leak under challenging installation conditions. The RTV sealant lubricates the grooved profile of the connection during assembly and installation, which then performs as a gasket creating a water-resistant connection.

The T-5 Joint's unique profile is machined to tolerances of less than +/- 0.005 of an inch, which creates a joint of consistent quality and integrity that is leak resistant even under considerable pressure.

The Permalok® Joint is designed to handle various types of loading conditions that a casing pipe is likely to undergo in the field. With over 4,000,000 linear feet of installations, the joint can withstand both compression and bending in applications involving:

- Microtunneling
- Pipe jacking
- Pipe ramming
- Auger boring

Available in diameters from 8" to 156" and wall thicknesses up to 2.5", Permalok® can be manufactured in custom lengths to maximize the efficiency of your project. Permalok® also offers a wide range of coatings & linings to meet the most difficult project specifications.



Efficiency Comparison

<p>60" Permalok® Casing Pipe A 60" Permalok® connection is made in 6 minutes or less, allowing a crew to install up to 10 pieces of casing 20 feet long in one 8 hour shift.</p> <p><i>End Result: 200 linear feet per day</i></p>	<p>60" Butt Welded Steel Casing Pipe The best field welders take 180 minutes to fit and butt weld one joint of 60" x .750" casing. At that rate, the same crew can install only 2-3 pieces of casing 20 feet long in an 8 hour shift.</p> <p><i>End Result: 40 to 60 linear feet per day</i></p>
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