

Demonstration of Service Tap Installation on a Bend Radius

Underground Solutions™ verified the tapping capability of Fusible C-900®, Fusible C-905® and FPVC™ while configured in the recommended bend radius.



A 60-foot length of 6" DR18 Fusible C-900® with two fused joints was positioned to the recommended radius of 144 feet. Three quarter-inch saddles and corporations were used.



Standard PVC tapping saddles were installed and taps were performed using a standard PVC tapping machine with PVC cutting bits. The first set of taps was done on an empty line following Uni-Bell tapping procedures, replicating a new installation. The second set of taps was done on a full line at 150 psi, simulating the addition of a service tap to an active line (wet-tap).



Taps were performed and corporation stops were installed at 12 o'clock, 9 o'clock, and 3 o'clock orientations. They were also located about 18 inches from fused joints.



The taps were pressure tested to 150 psi for a period of one hour with no leakage. Both the dry and wet taps were successfully pressure tested.

After successful completion of these tests, another identical set of taps and tests were performed at a bend radius of 115 feet or 80% of the recommended bend radius. These were tested successfully in the same manner as described above.

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Underground Solutions™ (UGSI) provides infrastructure technologies for water/wastewater applications, and conduit for applications ranging from electrical to fiber optics. UGSI's **Fusible C-900®**, **Fusible C-905®** and **FPVC™** products contain a proprietary PVC formulation that, when combined with UGSI's patented fusion process, results in a monolithic, fully restrained, gasket-free, leak-free piping system. **Duraliner™** is a patented, close-fit pipeline renewal system creating a stand-alone structural liner.