

MUELLER®
INSTA-TITE® CONNECTION

**Stab it in.
It stays in.**



FOR AN EXTRA MARGIN OF SPEED AND STRENGTH

The fast, easy, proven way to make strong connections to PE tubing and pipe

Grip ring locks PE tubing or pipe in place, O-ring provides a leak-tight seal. The more water pressure or pull, the more secure the connection. And it takes just seconds to make.

The Insta-Tite® Connection simplifies making connections to polyethylene CTS O.D. tubing or IPS PE pipe. Even an inexperienced workman can do it in seconds.

Just bevel the tube or pipe end. (There's a Mueller tool for this.) Then stab it firmly and fully into the Insta-Tite Connection.

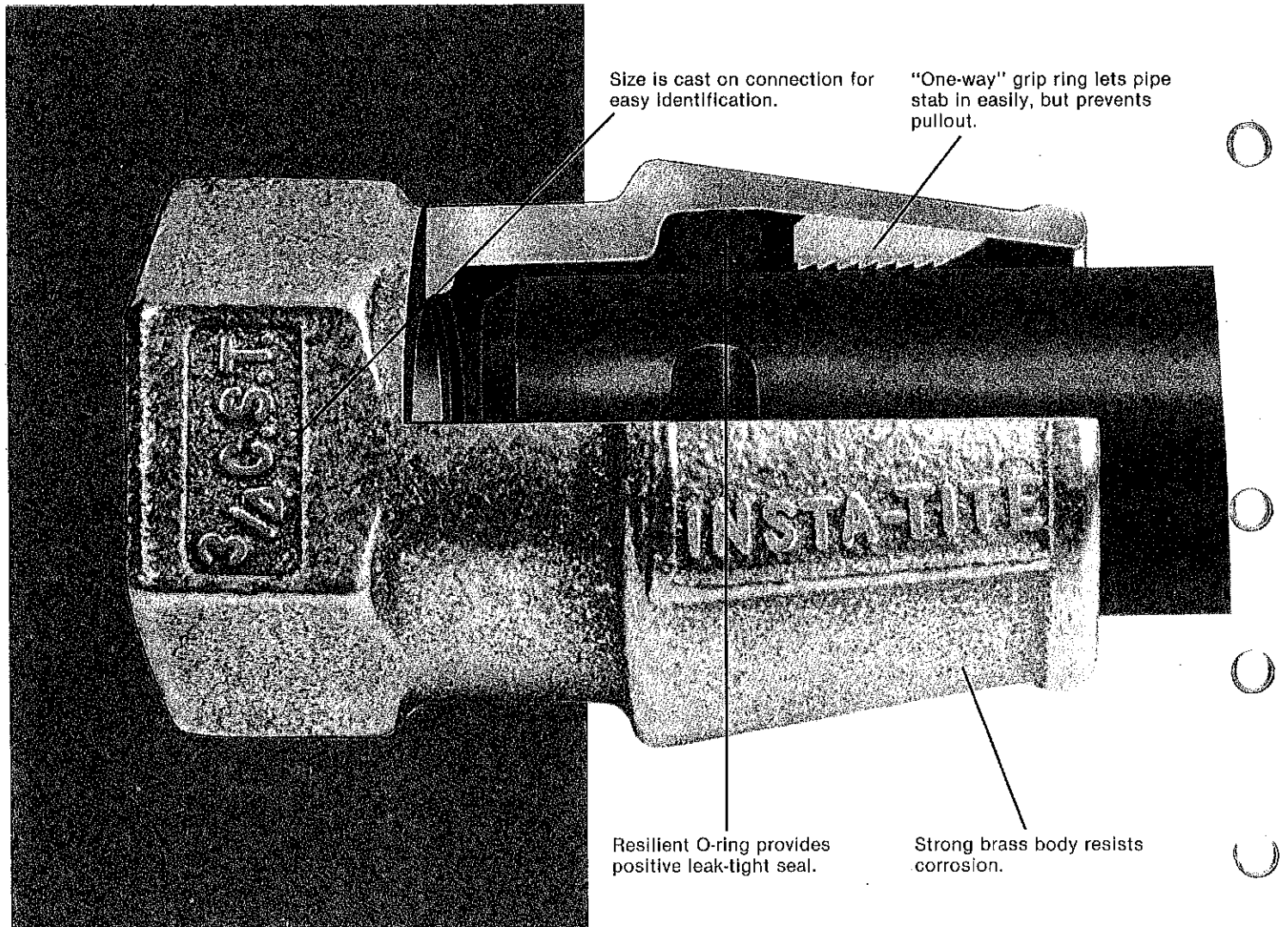
The connection is complete. Without heating, flaring, threading, cementing, nut tightening or inserting a liner.

The connection is also secure and pressure-tight.

A high-strength plastic "one-way" grip ring allows the tubing or pipe end to stab in to make the connection — then securely grips the pipe to prevent pullout.

The strong connection provides extremely high resistance to forces from line movement, backfilling, fill settlement, line pressure or accidental disturbances.

An inner O-ring between the connection housing and the tubing or pipe creates a positive seal. Any increase in pressure, up through the maximum rating of the PE tube or pipe, merely increases the sealing force.



Size is cast on connection for easy identification.

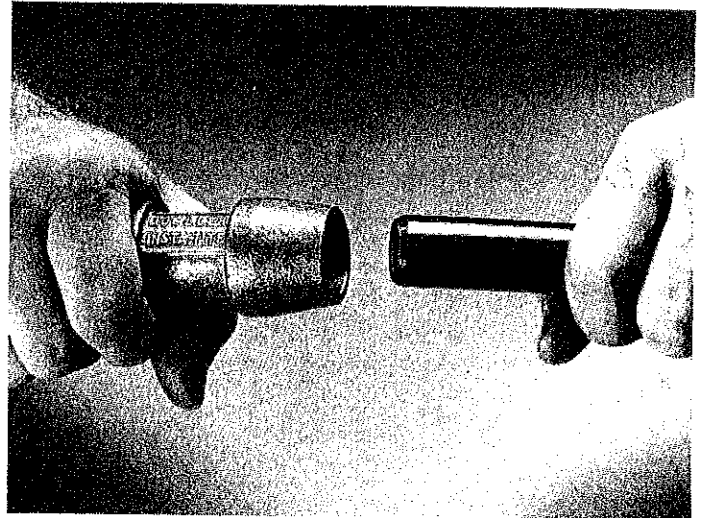
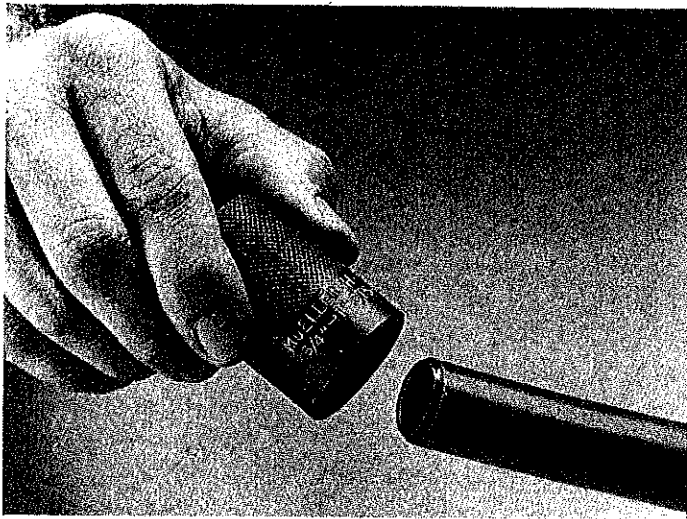
"One-way" grip ring lets pipe stab in easily, but prevents pullout.

Resilient O-ring provides positive leak-tight seal.

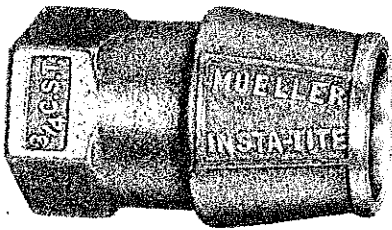
Strong brass body resists corrosion.

SIMPLE TWO STEP INSTALLATION

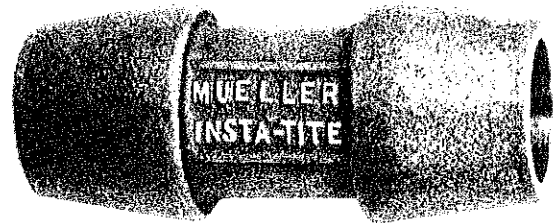
Bevel tubing or pipe end. Stab it into the connection. That's all.



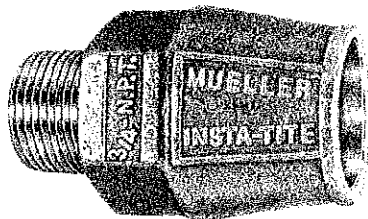
Mueller Insta-Tite Connections are available separately or as integral parts of Mueller Corporation Stops, Curb and Meter Valves, Meter Yokes and Fittings. Check with your Mueller Distributor or Mueller Sales Representative for more information about the Insta-Tite Connection.



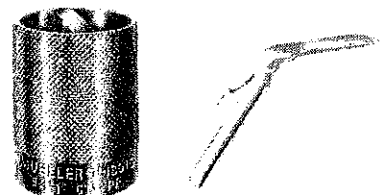
Insta-Tite Corporation Stop Coupling



Insta-Tite to Insta-Tite Connection for joining tubing or pipe lengths



Insta-Tite Straight Couplings, inside or outside I.P. threads



PE pipe end beveling tool and pipe removal tool

EXTENSIVE TEST PROGRAM

verified design simplicity and superior performance

The Insta-Tite® Connection was a thoroughly proven product long before the first one went on a service line. The Mueller Research Lab proved it out in a program of severe tests, typical of a Mueller product introduction. These tests went far beyond the conditions the Insta-Tite Connection must withstand in normal service.

Temperature Tests. Connections were subjected to temperature cycles ranging from 35°F to 105°F (2°C to 41°C) and pressures ranging from 30 to 160 psig (207 to 1103 kPa) without any failure or leakage.

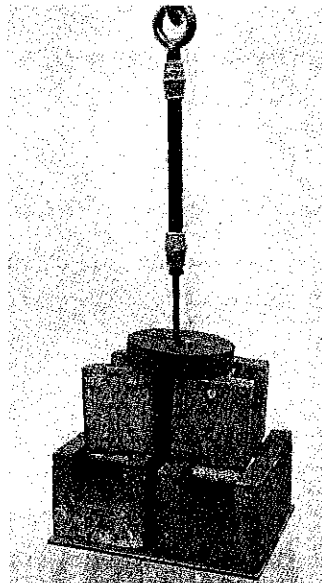
Pressure Cycling. With water pressure being varied from 0-160 psig (0-1103 kPa) instantaneously, after 1.2 million cycles, the Insta-Tite and PE pipe assembly was still providing a strong and secure, leak-tight connection.

An amazingly simple design concept • Proven through extensive research and development testing • Superior installation ease, economy and performance

Mueller Co. makes many other fine service line products, including: corporation stops; service clamps; curb valves, stops and boxes; connections and fittings; and meter valves, yokes and boxes. See your Mueller Sales Representative or Distributor for more information.

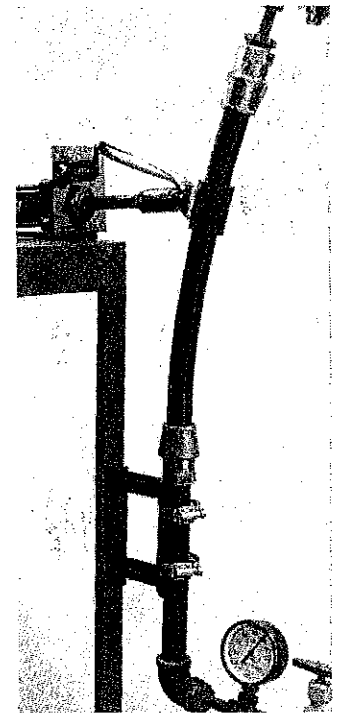


Burst Tests. Assemblies of Insta-Tite Connections and PE pipe were pressurized up to 825 psig (5688 kPa) until failure. No connection leaked or blew off. In every case, the PE pipe was the component that failed by bursting . . . not the connection.



Pullout Resistance. Various weight and cycle duration tensile loads were put on Insta-Tite and PE pipe assemblies. Using a tensile test machine with short duration cycles, the connection held up to 600-650 lbs (272-295 kg).

And in long duration, dead weight loads, the Insta-Tite Connection supported 300 lbs (136 kg) for 1200 hours without failure.



Flexure Tests. After 750,000 "flexes", pressurized with water at 100 psig (689 kPa), the Insta-Tite and PE pipe assembly was still holding strong with no leakage.

Mueller Co.

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