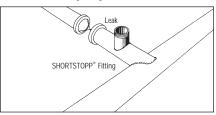


Data Sheet No.

Threaded SHORTSTOPP® Welding Fitting 1-1/4" through 3"

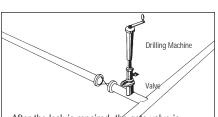
A typical job would involve a leak around the flange connection of a gate valve on a 2" lateral.

A 2" SHORTSTOPP[®] fitting is welded to the lateral between the leaking flange and the main.

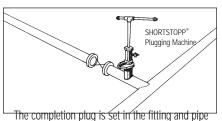


A SHORTCUTT® Valve and drilling machine are installed. The line is tapped.

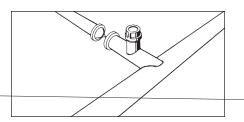
After the tap, a SHORTSTOPP plugging machine they addition the dimecthon gate valve is closed, isolating



After the leak is repaired, the gafe valve is opened, and the equipment recovered.



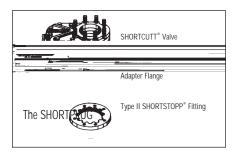
cap is installed to finish the job.



Type II SHORTSTOPP Welding Fitting 4", 6", 8", 10" and 12"

The Type II features a reusable bolt-on adapter **Banga Tolulan** adapts the bolt circle pattern of the "valve to the bolt circle pattern of the fitting.

The compact profile makes the Type II easier to had a light and a

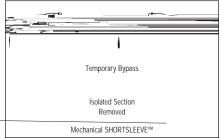


™ Completion Plug is

Shi@PETSITOOPPgh the valve and locked inside the

* fitting. The plug locks in the fitting
groove. An O-ring seals against pressure.

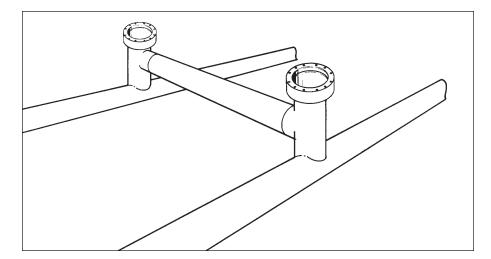
Mechanical SHORTSLEEVE™ Fitting



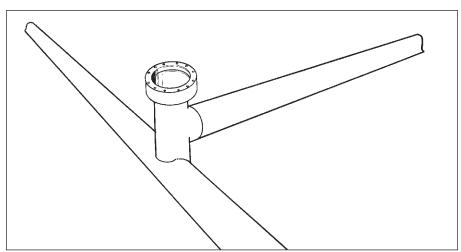


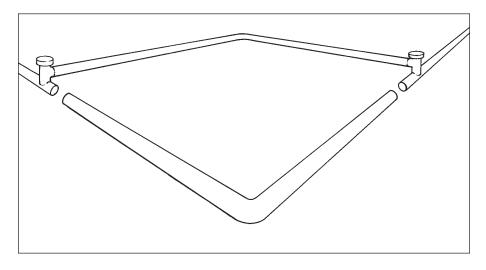
$\textbf{SHORTSTOPP} \ ^{\circ} \ \textbf{II} \ \textbf{Fittings} \ \textbf{Application}$

3-WAY[™] Tee



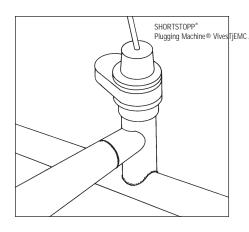
Interconnection





SHORTSTOPP * **II Fittings Application**

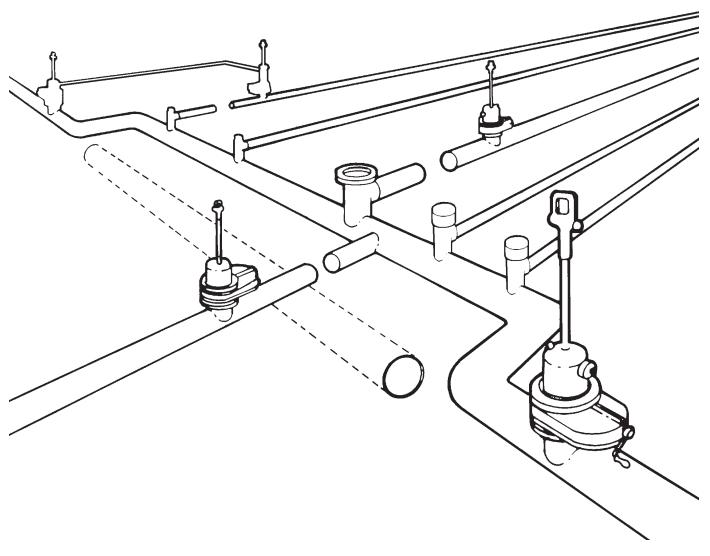
3-WAY™ Tee and Weld Fittings



Illustrations depict fitting applications only. Refer to TDW Instruction Manual for correct technical procedures.

TDW SHORTSTOPP" Fittings and 3-WAY Tees were used in conjunction with SHORTSTOPP" Plugging Machines to complete a relocation project undertaken by a midwestern gas distribution company. Special SHORTSTOPP" Fittings were used when connections called for other than size-on-size applications.

Service points 2, 3, and 4 were tied in using 3-WAY Tees. This provided a means of isolating these laterals at a future date without the need of installing block valves.





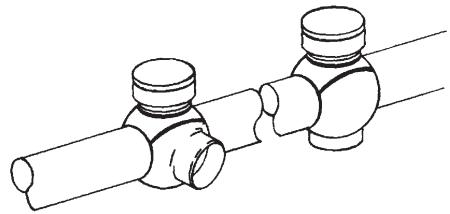
Data Sheet No.

SHORTSTOPP° **II** Fittings Application

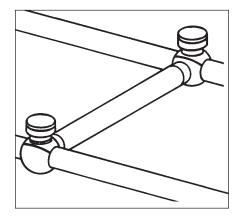
Spherical 3-WAY™ Tee

The Spherical 3-WAY™ Tee, like the standard 3-WAY Tee, is used to extend lines, relocate mains, make crossovers, connect laterals and tiein equipment all without a temporary bypass or shutdown.

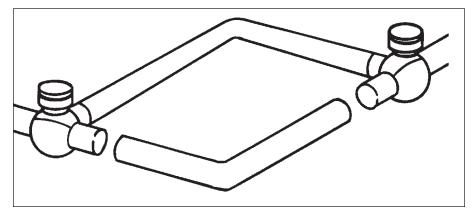
An advantage of this fitting is its low profile. Branch connections are on the same level as the main. The tee can be used with a side outlet or can be turned for a bottom outlet.



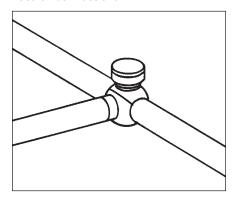
Crossovers



Relocate Mains



Lateral Connections



Equipment Tie-Ins

