

THE PIPE LINE DEVELOPMENT COMPANY

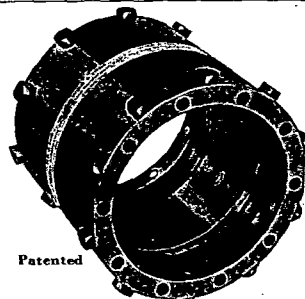
5700 DETROIT AVENUE

CLEVELAND 2, OHIO

TELEPHONE: ATLANTIC 1-3233

EXPORT OFFICE: R. S. STOKVIS & SONS, INC., 17 BATTERY PLACE, NEW YORK 4, N. Y.

WELD+ENDS SPECIFICATIONS



Patented

Weld+Ends Permits Welding a Pipe Line While Pumping Through It

WELD+ENDS is used as a safety welding coupling on crude oil, gas, gasoline, propane, asphalt, tar, steam and other pipe lines. As soon as packing rings and clamping screws are tightened, pipe line flow is resumed. After pipe line is restored to service, WELD+ENDS is welded to pipe, making a solid, all-welded joint.

PLIDCOFLANGE

Plidcoflange is brand new. There are countless applications where this fitting excels. It slips over the end of the pipe, seals off like WELD+ENDS and mates up with standard flange facings.

Plidcoflange may be welded permanently to the pipeline while pumping or it may be bolted in place, permitting removal.

Plidcoflange is outstanding for use as a blind plate flange. Simply slide Plidcoflange back to change plates. Flange spreaders and jacks for springing pipeline are not needed.

Available in sizes 2 in. through 12 in. with 150 pound A.S.A. standard steel flanges. Other sizes and pressure classes on application.

New Smith+Clamp Permits Plugging and Welding Pit-Hole Leaks in a Pipe Line While Pumping Through It

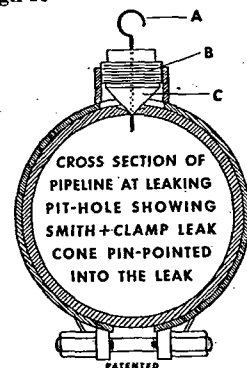
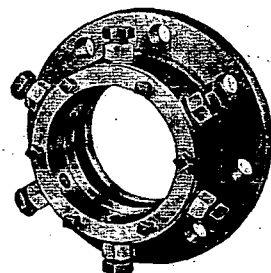
SMITH + CLAMP utilizes a unique pilot pin. (See "A" in illustration at right.) Pin projects from Neoprene leak cone (C) and guides point of cone directly into leaking hole. Pilot pin is removable.

After cone is pin-pointed on leak, pressure is applied directly behind cone by means of Force Screw (B), thus forcing cone point into hole and stopping leak. Makes it possible to control higher line pressures with lower bolting pressure.

SMITH + CLAMP is available in sizes 1 in. through 36 in. or larger.

WELD PLATES are also available in sizes from 4 in. through 36 in. WELD PLATES are companion pieces, required only where welded repairs are specified. They fit over the Clamp and weld to pipe, making a permanent, all-welded, steel plate repair.

Leak Cones, available in various diameters, are made of Neoprene in the standard models. Also available in Silicone (for higher temperatures), Teflon, Steel, Lead and other materials.



CROSS SECTION OF PIPELINE AT LEAKING PIT-HOLE SHOWING SMITH+CLAMP LEAK CONE PIN-POINTED INTO THE LEAK

PATENTED



TUBE TURNS

DIVISION OF CHEMETRON CORPORATION

General Offices and Factory: Louisville 1, Kentucky

Branch Offices

ATLANTA 1605 Atlanta Federal Sav. Bldg.—Jackson 2-7310
CHICAGO 600 S. Michigan—Harrison 7-8526
DALLAS 309-311 Meadows Bldg.—Emerson 1-1912
DENVER 1160 10th St.—Cherry 4-5807
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HOUSTON 7120 Katy Road—Underwood 9-3531
KANSAS CITY 5019 W. 55th St., Mission, Kansas—Westport 1-8111
LOS ANGELES 2417 East 24th St.—Ludlow 7-8287

In Canada: TUBE TURNS OF CANADA LIMITED, Ridgeway, Ontario

Toronto, Edmonton, Montreal & Vancouver

Distributors in Principal Cities

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NEW ORLEANS 1205 St. Charles Ave.—Tulane 5611
NEW YORK 150 Broadway—Rector 2-8230
PHILADELPHIA 1032 Sub. Station Bldg.—Locust 7-3218
PITTSBURGH 1718 Grant Bldg.—Atlantic 1-8848
SAN FRANCISCO 2611 Russ Bldg.—Garfield 1-2594
SEATTLE 5510 E. Marginal Way—Parkway 2-7500
TULSA 704-05 Wright Bldg.—Cherry 2-9193

TUBE-TURN Welding Fittings and Flanges

In sizes 1/2 in. through 42 in. . . in all types . . . all wall thicknesses . . . and all piping materials

Tube Turns is the originator and pioneer manufacturer in the development and use of seamless, forged welding fittings. This company offers fittings and flanges in all sizes and types for every pipe welding need. A few of the many advantages of Tube-Turn fittings are listed here. Complete details are included in the Tube Turns Catalog 311, sent on request.

Outstanding Advantages of TUBE-TURN Welding Fittings

These sound advantages are solid reasons why Tube-Turn welding fittings are universally preferred today: (1) Stronger, lighter, tighter piping systems. (2) Permanently leak-proof, trouble-free construction. (3) Uniform wall thickness of elbows and returns throughout, making possible exact alignment for better, faster, lower-cost welding. (4) Minimum maintenance cost. (5) Easy sweeping changes in direction reduce pressure loss. (6) Smooth inner walls for more efficient flow, less corrosion and longer life.

Materials and Construction

Regular carbon steel Tube-Turn elbows and returns, in both long and short radius types, are made in Standard, Extra Strong and (in long radius only) Schedule 160 and Double Extra Strong pipe thicknesses. These fittings conform to ASTM specifications A-234. Tube-Turn welding fittings in other schedule numbers and special thicknesses are likewise available. They are also made of types 304, 347 and 316 and other stainless steels, carbon-moly and chrome-moly steels, copper, brass, nickel, Monel, Inconel, wrought iron and aluminum.

The uniform high quality of Tube-Turn elbows and returns is due to their unique and original manufacturing process—in which short sections of seamless tubing are forced over a curved expanding mandrel at a forging temperature. Tube-Turn

Testees are also made by an exclusive process and to a design that provides many special advantages. Other Tube-Turn fittings offer similar quality standards.

Fine Grade Forged Steel Flanges

Tube Turns manufactures a complete line of forged steel flanges of outstanding strength and dimensional accuracy.

Valuable Technical Data Available

Several items of authoritative technical literature on fittings, flanges and piping in general are available as are bulletins giving specification information on types, sizes and materials. Write for descriptive leaflet.

Distributor Stocks Throughout U. S. and Canada

Tube-Turn welding fittings and flanges are available from distributors located in every important city and area in the United States and Canada.

"tt" and "Tube-Turn" Reg. U. S. Pat. Off.

TUBE-TURN FITTINGS AND FLANGES—in TYPES, SIZES, WEIGHTS FOR EVERY PIPE WELDING NEED

Straight Tee	Reducing Outlet Tee	Straight Cross	Concentric Reducer	Eccentric Reducer	Lap Joint Stub End
Cap	Straight Lateral	Reducing Elbow	Scale-free Coupling	Slave	Welding Rings
Welding Neck Flange	Slip-on Flange	Lap Joint Flange	Threaded Flange	Blind Flange	Welding Neck Orifice Flange