

SERVING THE OIL, GAS, CHEMICAL AND PETROCHEMICAL INDUSTRIES FOR 80 YEARS AND INTO THE TWENTY-FIRST CENTURY!!



Sypris Technologies, Tube Turns Division manufactures a family of hinged closures for both high pressure applications and low pressure (T-Bolt Style) applications in sizes ranging from 4" to 72". When required, we can specifically design larger diameters. Our closures are manufactured from a wide variety of materials such as Carbon Steel, Stainless Steel in types 304, 304L, 316 and 316L, Monel, Nickel, Hastelloy and other materials specified by our customers. These closures can be designed for either horizontal or vertical application and can be equipped with such accessories as sight glasses, nozzles, drains, gages and sampling ports. Sypris Technologies manufactures and designs their complete line of closures in accordance with ASME Section VIII Division I.



T-Bolt Closures are designed expressly for nominal pressure applications. Safety plus operating advantages over flanged

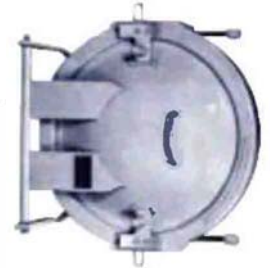
manways makes our T-Bolt Closures ideal for applications such as storage tanks, mixing equipment, filters, separators, inspection ports and other access openings on towers and reactors, and hand holes on processing equipment and medical or laboratory apparatus, such as Hyperbaric Chambers.



Tool-less Closure. A closure designed for quick opening by one person in under a minute by actuating a lever. It is available in Horizontal or Vertical. Furnished in sizes 8" thru 66" and Classes 150 thru 1500. Carbon Steel is Standard. Stainless and other materials available.

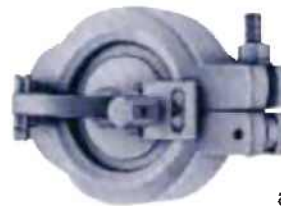
2612 Howard Street
Louisville, KY 40211 USA
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Yoke Closures are specifically designed for high pressures ranging from 285 psi to 6170 psi. Tube Turns Yoke Style Closures are widely accepted throughout the world due to the fact that they afford efficiency and



economy for applications where frequent access is required or where the use of blind flanges are cumbersome and time consuming.

Sypris Technologies can design closures to meet the most stringent applications required by today's engineers. Our closures are now being used in oil, gas, and product pipelines, processing, petroleum production and refining, surface transportation, and research and development.



Yoke Style Closures can be equipped with operating aids to simplify the opening and closing tasks. Such devices as breakover wrenches and chain and sprocket drives are available.

Threaded Closures in sizes 2" thru 24" and classes 150 thru 900 have been added to compliment our wide closure product line to provide a simple design that consists only of a Head, Welding Hub and Hinging Hardware. Components are manufactured utilizing precision CNC machining equipment to provide accurate and consistent dimensions.



Soon thru 36"

Website: www.SyprisTechnologies.com
E-mail: tubeturns@SyprisTechnologies.com



The Swel-Plug Pressure Tester is a rugged, positive-grip end closure that simplifies hydrostatic testing of piping assemblies. Developed scientifically as a time and money-saver, it can be installed or removed in minutes and is remarkably versatile in handling a wide range of pipe ID's. While eliminating the need to attach caps, flanges or plate blanks as end seals for each test, it also eliminates elaborate fixturing or constant adjusting of external clamps and screws.

A metal-to-metal gripping surface is provided by longitudinal, flexible steel ribs that are joined to an end cap, and a base ring by a fusion weld. At the opposite end, the ribs are embedded in a full-length elastic liner at the base of a flared seal cap, thereby restraining and controlling rib movements. With this design, hydrostatic tests of up to 3000 PSI with a 4:1 safety factor can be performed.



Performance and dependability have been proved by gas utilities, refineries, pipe mills, mechanical contractors and maintenance departments.

Swel-Plug Pressure Testers are inventoried in sizes 3/4" through 12".

For more information on the Tube Turns Closure Family, call your local Representative or Tube Turns to help select the best closure for your application---

TODAY.

Specialty Piping Components

Tube Turns custom forged components for pipeline, pressure vessels and pulsation dampeners (Bottles) are a reliable answer to the increasing demands for improved piping integrity.

Multiple Flued Heads and Baffle Plates provide the answers for added strength and improved fatigue resistance for pulsation dampeners, while Transition Joints meet the varied requirements of the cryogenic industry by providing aluminum to stainless steel transition for a smooth leakproof joint.



Swivel Ring Flanges and Anchor Forgings are designed to meet the exacting demands of the pipeline industry. Each is designed to meet the criteria of today's engineer.



Tube Turns Monolithic Insulated Joints

were created by engineers with years of experience in developing new and better products specifically for pipeline applications. Strength, ruggedness, and reliability of these products provide a high

confidence level for the pipeline designer and operating engineer.

Efficient, economical application of cathodic protection to underground piping requires close, continuous control of applied and extraneous electrical currents. This in turn calls for isolation of specific structures so as to avoid failure of protection due to stray currents or interference from other pipelines and power transmission cables. More and more pipeline corrosion engineers are finding that Tube Turns Monolithic Insulated Joints provide a very effective means of electrically isolating sections of underground piping.

These joints are manufactured in sizes 4" thru 48" and classes 150 thru 900, and each is hydrostatically and electrically tested prior to shipment. For optimum effectiveness and economy in protection of all pipeline installations, specify Tube Turns Insulated Joints.

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