

# TUBE TURNS HAS SERVED THE PIPELINE, ENERGY AND PETROCHEMICAL INDUSTRIES SINCE 1927



**Tube Turns Division of Sypris Technologies Inc.** manufactures a family of closures in sizes ranging from 2" to 72". Our closures are manufactured from a wide variety of ASME approved materials such as Carbon Steel, Stainless Steel in types 304, 304L, 316, 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, gauges and sampling ports. Tube Turns designs and manufactures their complete line of closures in accordance with ASME Section VIII Division I. All closures can be supplied with "U" stamp.



**Tool-less® Closures** are high pressure closures available for horizontal and vertical applications in sizes ranging from 8" to 72" in ANSI class 150-1500. They are designed expressly to meet applications where customers specify closure that must be opened

or closed by one person in less than one minute without the use of any additional tools. Tool-less® closures are suitable for use on natural gas filter separators where filter elements replacement require frequent vessel access. Horizontal Tool-less® closures include double-pivot heavy duty hinge while the vertical closures can be furnished with robust davit to raise the door once unlocked.



**T-Bolt Closures** are designed for nominal pressure applications. T-Bolt closures are available for horizontal and vertical applications in sizes 6" - 66" for pressures up to 300 psi.

Safety plus operating advantages over flanged manways make 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.

**Threaded Closures** are available for horizontal and vertical applications in sizes 2" – 24" in ANSI class 150 – 900. The 26" – 36" threaded closures are available in ANSI class 150 – 600. Design is simple yet robust. Heavy duty davit assembly is furnished for effective alignment of head and hub. Components are manufactured utilizing precision CNC machining to provide accurate and consistent dimensions. Threaded closures are suitable for scraper traps, filter separators as well as other filtration applications. Threaded closures are economically priced with attractive lead time to meet the most demanding customer requirements.



**Yoke Closures** are available in 2" - 72" in ANSI class 150-2500. Tube Turns Double and Single Yoke Style Closures are widely accepted throughout the world for applications where frequent access is required or where the blind flanges are cumbersome and time consuming. Yoke Style Closures can be equipped with operating aids to simplify the opening and closing tasks. Devices such as breakover wrenches and chain and sprocket drives are available



**SYPRIS®**  
TECHNOLOGIES  
Tube Turns Division



**Swel Plug Pressure Tester** is a rugged, positive-grip end closure that simplifies hydrostatic testing of piping assemblies. Developed scientifically as a time and moneysaver, 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. Swel-Plug Pressure Testers are inventoried in sized 3/4" through 12".

Performance and dependability have been proven by gas utilities, refineries, PVC and steel pipe mills, steam cracker manufacturers and mechanical contractors during steam cracker maintenance.



**Bimetallic Transition Joints**

meet the varied requirements of the cryogenic industry by providing aluminum to stainless steel transition for a smooth leakproof joint. Typical applications include cold boxes and natural gas liquefaction.



**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.



**Anchor Forgings**

are designed to immobilize high pressure pipelines and meet the exacting demands of the pipeline industry. Each is designed to meet the criteria of today's engineer.

**For General Inquiries**

[www.sypris.com/sypris-tube-turns](http://www.sypris.com/sypris-tube-turns)

[tubeturns@SyprisTechnologies.com](mailto:tubeturns@SyprisTechnologies.com)



**For further information please contact the factory or your regional representative**



**FOR MORE INFORMATION ABOUT TUBE TURNS' ENGINEERED PRODUCTS  
REQUEST OUR CATALOG TODAY!!**

2612 Howard Street • Louisville, Kentucky 40211 • USA • Tel: 502.774.6011 • Fax: 502.774.6300