

# PROCHEM

*Your Source for Local Supply and Support*

PIPING PRODUCTS

**TUBE-MAC<sup>®</sup>**



PIPING PRODUCTS



INSTRUMENTATION



VALVES AND ACTUATORS



MANUFACTURING



INDENT SERVICE



HYDRAULIC



# Tube-Mac®



**PYPLOK®**  
**37° FLARE**  
**RETAIN RING**

Tube-Mac® was founded 30 years ago as a piping systems repair and installation business. It has since grown into a progressive worldwide company with offices in Canada, USA, UK, Spain and Austria.

Tube-Mac® utilises technologically advanced non-welded flanged and coupling systems as a more cost effective alternative to welded piping systems. In today's world, skilled high pressure welders are becoming more difficult to find, especially in remote parts of the world. Cleanliness and environmental issues are becoming a major concern in the industry.

- BENEFITS:**
- Overall installed cost savings**
  - Proven leak-free system**
  - Improved flow characteristics**
  - Ease of installation**
  - No welding**
  - No acid cleaning**



**TYPICAL APPLICATIONS INCLUDE:**

- |                      |  |
|----------------------|--|
| Steel mill equipment | Log handling                           |
| Transfer lines       | Apron and screw feeders                |
| Simulation equipment | Deck machinery                         |
| Aluminium mills      | Winches, thrusters, jack up cylinders  |
| Crushers, compactors | Barge and tower cranes                 |
| Shredders            | Chemical, agitators and reactor drives |
| Presses              | Sugar mill equipment                   |
| Digesters            | Steam, steam traced lines              |



# The Tube-Mac®

# PYPLOK® System

**It's the weldless, threadless way to join pipe/tube**



## **LEAKFREE PERFORMANCE, REDUCED INSTALLED COST AND MINIMISED DOWNTIME**

The Tube-Mac® PYPLOK® connecting system is sparkless and has a successful history of pipe and tube fabrication in the most demanding environments and systems, where fire safety is essential.

Using a portable, hand-held installation tool, fittings are cold worked and permanently compressed onto piping. This process deforms the pipe diameter a controlled amount, thus forming a permanent leaktight seal.

## **USE IT ANYWHERE YOU'D WELD... BUT WOULDN'T WANT TO**

Now you can have the benefits of a welded joint, but without the hazards of hot work, using the Tube-Mac® PYPLOK® coupling. It's not only a permanent system, it's also sparkless. It goes on cold. Which means all of the risks and requirements associated with "hot work" are avoided.

And the permanent characteristics of the Tube-Mac® PYPLOK® system make it ideal in place of welded flanges and threaded fittings which are prone to leaks due to flexure or vibration.

No hot work permits, no x-rays, no gas freeing, no system flushing or purging, no attached slag or contaminants enter the piping system. And with easy installation method, there is a substantial reduction of system downtime for repairs.

## **THE ADVANTAGES OF PYPLOK'S SEALING CHARACTERISTICS**

Tube-Mac® PYPLOK® Fittings incorporates unique sealing capabilities. It utilises four non-metallic o-rings, which make PYPLOK® Fittings adaptable to normal pipe and tube tolerances and surface conditions.

The outer o-ring seals prevent outside contaminants from entering the system.

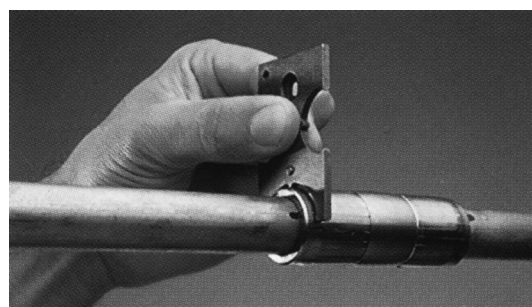
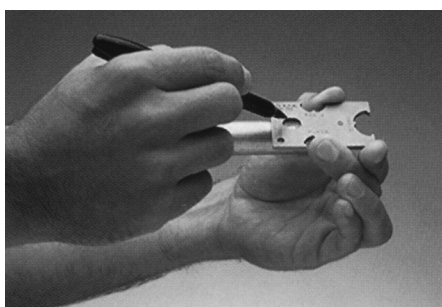
The Tube-Mac® PYPLOK® system is extremely versatile: Ideal for gaseous systems as well as fluids. Also available in various shapes: tees, elbows, 45° and 90°, reducers and custom ends.

## **HOW PYPLOK® IS INSTALLED**

The unique characteristics of the Tube-Mac® PYPLOK® Fitting system allows for installation on piping/tubing with normal tolerances and surface conditions.

Tooling is positioned around the fitting assembly and is pressurised using a manual or electric pump. The tool converts linear force into radial force, compressing, or swaging, the fitting and piping material together.

The connection results in joint tensile strength greater than the minimum pipe yield. A simple inspection gauge verifies proper diameter reduction.





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