

History of PYPLOK®

1968 - McDonnell Aircraft developed the technology of 360° radial swage compression tube coupling for F-4 Fighter jets.



1969 - The licensed an Aerospace fitting manufacturer named DEUTSCH to manufacture the fitting.

1978 - DEUTSCH introduced PYPLOK® into Marine & Offshore, Petrochemical and other industrial markets.

2004 - DEUTSCH management decided to focus on their core aerospace and power business so they offered PYPLOK® line to Tube-Mac.

2007 - The sale was completed. Tube-Mac took over the marketing, design and manufacture of the PYPLOK® product line.

What is PYPLOK®



PYPLOK® is a 360° radial swage mechanically attached fitting which permanently connects pipe and tube for a leak free, cold connection.

The fitting can be used in a wide variety of low to high pressure piping applications in industries such as Marine & Offshore, Navy, Oil & Gas, Petrochemical, Steel, Mining and other Industrial uses.

Technology of PYPLOK®



PYPLOK® Fittings incorporates a unique sealing capability by using four non-metallic O-Rings which compress against the pipe surface which produces a leak tight, permanent seal. Due to the use of O-Rings, the fitting is able to be installed on normal pipe and tube tolerances and surface conditions.

Outer Environmental Seal

Inner Main Seal

Pipe



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

Basic 3-step installation



1. Apply mark in window using insertion gage.



2. Position PYPLOK[®] tooling around fitting assembly and pressurize.



3. Verify completed joint using same insertion gage.

PYPLOK[®] can be safely installed in an  environment

Advantages of using PYPLOK[®]

- ✓ PYPLOK[®] requires no hot work, PYPLOK[®] is installed cold.
- ✓ The time required to join the pipe ends together is significantly shorter because of the portable tools used to compress the fitting onto the pipe.
- ✓ Reduced inspection time through an inspection gauge. This eliminates conventional NDT requirements such as X-rays etc.
- ✓ There is no need for fire watch or any special fire permit.
- ✓ PYPLOK[®] is a safe cold work technology.



Fitting Specifications

- ✓ Fitting Material: 316L Stainless Steel, Carbon Steel, Copper Nickel 70/30 CuNi, Duplex and Super Duplex
- ✓ Pressure Range: Up to 9300 PSI (640 bar) with 3:1 Safety Factor
- ✓ Fitting Size Range: 1/4" to 3" NPS Pipe, 1/4" to 2" OD TUBE and 6 mm to 66 mm Tube
- ✓ Operating Temperature: -65°F through 400°F
-54°C through 205°C
- ✓ Standard Seal Material:
 - Viton (other materials available upon request)
 - EDPM (for Steam Applications)
- ✓ Standards and Testing:
 - ABS, CRN, DNV and NAVSEA certified, MIL-S-901D shock tested
 - API 6FB and ISO 15540/19921 fire tested
 - Meets ASME B31.1 and B31.3 Requirements



- ASME B31.1 & B31.3 Qualified
- CRN – Canadian Registration No. 0A12153.5
- API 6FB and ISO 19921/15540 Fire Test
- NAVSEA and USCG Approved
- ABS, DNV, Lloyd's, CCS, RMRS & BV Type Approved