

GripTight® Isolation Plug

Isolate and Pressure Test Pipe Quickly and Safely

Description

EST Group's GripTight Isolation Plug allows you to positively isolate and monitor potentially explosive vapors during hot work, then effectively hydrotest the new weld connection with one easy to use tool. The GripTight Isolation Plug integrates all the features of EST Group's Double Block and Bleed Test Plug with GripTight gripping technology. The GripTight grippers enhance operational safety, by reducing the risks associated with unexpected upstream pressure in the line. GripTight Isolation Plugs are capable of withstanding upstream pressures up to 1500 PsiG (103 BarG). If the upstream pressure increases, then the GripTight Grippers actually use the pressure to increase their grip on the pipe. The greater the pressure, the greater the grip!

Basic Operations

- After determining pipe and schedule size, install the GripTight Isolation Plug upstream of hot work area
- Expand seals and grippers by tightening compression nuts
- Inject inert gas or water between seals (isolation zone) and pressurize
- Monitor isolation zone pressure during "hot work"
- After weld cools, release pressure and seal, reposition isolation zone over weld area
- Pressurize isolation zone to test weld area

Features and Benefits

- Dual port system allows water to be circulated between seals, providing improved cooling capabilities during pre/post weld procedures
- Creates a complete air-free barrier between seals - safely isolating hot work from any residual upstream gases
- Lightweight, aluminum and steel construction makes it easy to use
- Test pressures to 2,250 PsiG (155.1 BarG) between the seals
- Upstream pressure up to 1,500 PsiG (103 BarG)
- Available for NPS ranging from 3/4" to 48" (DN20 - DN1200)
- Pressure tests can be performed with less than a gallon of water, Reducing fill time and waste disposal

Specs/Materials

- Standard materials include aluminum body with steel hardware and urethane seals.

FAQ

- **Does the pipe need to be in a specific condition before the GripTight Isolation Plug can be installed?**
Yes. The GripTight Isolation Plug is designed for use in seamless and welded pipe. In seam welded pipe or where corrosion, pitting, or scale is present, the pipe ID may require some preparation prior to plug installation and use.
- **Will the GripTight Isolation Plug accommodate slight weld intrusion?**
Yes. The plug is designed with increased clearance (up to 3/8" on larger size plugs) to allow the plug to be positioned over the weld for testing even when slight weld intrusion is present on the Inner Diameter of the pipe.
- **What is the average time required to install a GripTight Isolation Plug and achieve a pressure test?**
After the temperature of the weld area has decreased below 180°F (82°C), the Griptight Isolation Plug can be used to complete pressure tests in as little as 10 minutes from insertion to removal.
- **What upkeep and storage conditions are required to preserve the quality and performance of the GripTight Isolation Plug?**
The GripTight Isolation Plug requires periodic inspection of the O-Rings and Seals prior to testing. The compression shafts should be inspected and anti-seize should be applied as needed. After a test has been completed, the compression nuts should be retracted so the seals can fully relax; allowing the Urethane Seals to return to their original size, preventing any permanent swelling and/or deformation.

