

High Lift Flange Weld Test Plug

Purge, Weld, and Test Flange Connections with One Plug

Description

EST Group's High Lift Flange Weld Test Plug is a safe, reliable, 4-in-1 tool that reduces the cost, downtime delays, and waste water disposal associated with conventional flange testing. The High Lift Flange Weld Test Plug lets you monitor conditions upstream of the seal, isolate and purge the weld area, complete the weld and hydro test with one tool. The plug isolates just the weld area so there is no need to fill the entire line or vessel. Each test utilizes a minimum amount of water. No line blinds, no vacuum trucks or dehydration services, reduced NDE, and reduced water and environmental waste.

Basic Operations

- Attach the High Lift Flange Weld Test Plug to flange and position
- Expand seal by tightening compression nut
- Monitor upstream vapor
- Inject inert gas for welding
- Inject water through the fill port, exhaust residual air through the vent port
- Fill and pressurize



Features and Benefits

- The High Lift Flange Weld Test Plug is designed to function in four distinct ways: as a purge dam, weld fixture, test plug, and a weld isolation plug.
- Ported center shaft allows for upstream monitoring.
- Flange to pipe welds are tested without needing to pressurize the entire system.
- Available for NPS ranging from 3/4" to 24" (DN20 – DN600). Larger pipe sizes and flange classes available.
- Suitable for testing pressures up to 1125 PsiG (77 BarG). Higher pressure models are available.

Specs/Materials

Standard material is plated, painted or tool blackened carbon steel with Urethane seals and Buna-N O-rings. Alternate seal materials availables.

FAQ

- **Are the maximum testing pressures affected by ANSI Flange class used?**
Yes. The High Lift Flange Weld Test Plug is rated to 450 PsiG (30.9 BarG) when used with ANSI Flange Class 150 and 1125 PsiG (77 BarG) when used with ANSI Flange Class of 300 - 600.
- **Can the installation depth of the seal be adjusted?**
Yes. In sizes from 3/4" to 8" (DN20- DN200), the High Lift Flange Weld Test Plug's segmented compression tube design allows you to adjust the distance between the flange and seal. In larger sizes, the installation depth of the seal is not adjustable.
- **What is the temperature rating of the Urethane Seal and will close proximity heat transfer compromise the Seal during the welding process?**
The temperature rating for the Urethane seal is 180°F (82°C). The High Lift Flange Weld Test Plug has been designed to have the seal positioned away from the weld joint when it is installed. The distance between the weld and the High Lift Flange Test Plug seal allows the heat to dissipate and decrease to a temperature that is within the rating of the seal.