

Safely Isolate, Weld, and Test Flange-to-Pipe Connections in Minutes



Plant Type

- Oil, Gas and Chemical Process Plants
- Offshore Oil & Gas Platforms
- Shipyards
- Plant revamps and additions

Key Personnel

- Industrial Contractors
- Maintenance Managers
- Reliability Engineers (Fixed Equipment)
- Turnaround Planners
- Inspectors
- Tie-In Managers

Applications

- Piping Systems, Spools, Pressure Vessels with Flanged Connections
- Flange Replacement Programs
- Tie-In Work



Our Number One Concern Is Safety, Is Yours?

Conventional flange-to-pipe weld testing can carry high costs including downtime, delays, and wastewater disposal issues and create dangerous conditions for workers.

GripTight® Isolation Plug - Stats & Features

EST Group's Isolation Plug positively isolates and monitors potentially explosive vapors during "hot work", then effectively hydrotest the new weld connection with one tool. The dual cavity port creates a complete air-free barrier between the seals - safely isolating the hot work from any residual upstream gases.

The GripTight Isolation Plug integrates proven GripTight safety technology, with the functionality of our conventional Double Block and Bleed Plug.

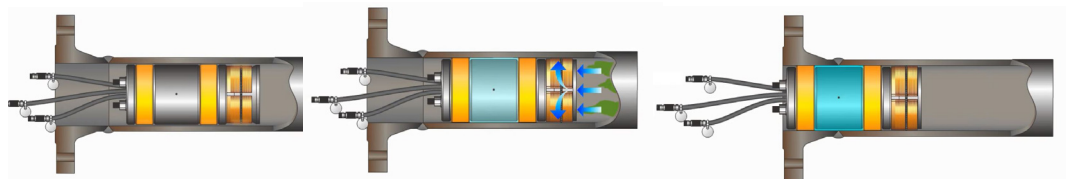
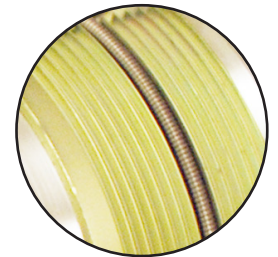
Pressure Rating

2250 PsiG (155 BarG) between the seals & upstream pressures up to 1500 PsiG (103 BarG) - *higher pressures available upon request*

Size Range

3/4" to 48" NPS (DN20 to DN1200) - *additional sizes available upon request*

- Self gripping design
- Dual port system allows water to be circulated between seals, providing enhanced cooling capabilities during pre/post weld procedures
- Creates a complete air-free barrier between seals
- Safely isolate hot work from any residual upstream gases
- Lightweight, aluminum and steel construction makes it easy to use
- Pressure tests performed with less than a gallon (3.8 L) of water. Reduced fill time. Reduced wastewater disposal.
- Standard urethane seals - wide range of seal materials available upon request



Isolate the Line

Withstand Full Upstream
Pressure

Test the Weld

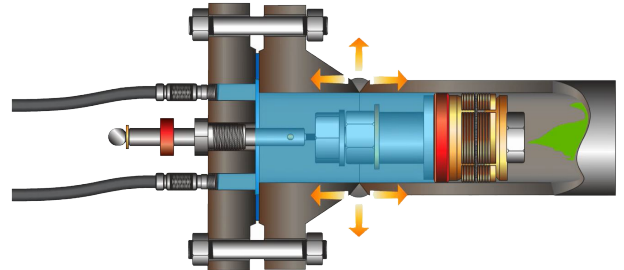
EST Group's Alternative Flange Weld Test & Isolation Plugs

GripTight Reverse Pressure Test Plug

Pressure test flange-to-pipe welds with full radial, hoop, and axial stresses – equivalent to the stresses that would be produced when using a blind to pressurize the entire piping system. Pressure testing can effectively verify the weld integrity providing the user confidence that the flange and weld will properly function when placed into service.

Features

- Test pressure up to 2250 PsiG (155 BarG)
- Sizes ranging from 2" to 12" NPS (DN50 to DN300), *additional sizes available upon request*
- The plug and test flange act independently of each other so that the weld joint is subjected to real world stresses during pressure testing
- Flange to pipe welds are tested without needing to pressurize the entire system

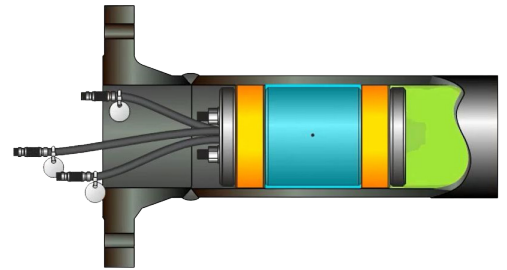


Double Block and Bleed Test / Isolation Plug

Positively isolate and monitor potentially explosive vapors during hot work, then effectively hydro test the new weld connection with one easy-to-use tool.

Features

- Test pressure up to 2250 PsiG (155 BarG), upstream pressure rated to 10 PsiG (0.7 BarG)
- Sizes ranging from 3/4" to 24" NPS (DC20 to DN600), *additional sizes available upon request*
- Monitors potentially explosive vapors during hot work
- Uses less than a gallon (3.8 L) of water, reducing waste water, treatment expenses, and facilitates testing in remote areas of the facility

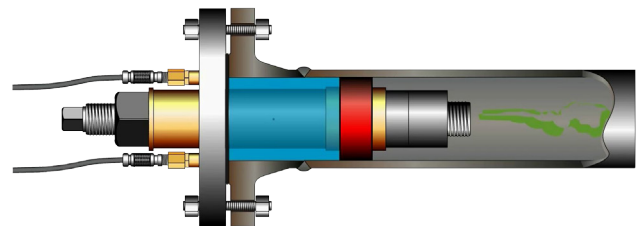


High Lift Flange Weld Test Plug - The Original Flange Weld and Test Plug

Monitor upstream conditions, isolate and purge the weld area, perform the weld, and hydro test the weld joint with one easy tool. No blind flanging upstream, no vacuum truck for evacuating the line, and no X-raying. Each test requires a minimum amount of water, no need to fill the entire line.

Features

- Test pressure up to 1125 PsiG (78 BarG)
- Sizes ranging from 3/4" to 24" NPS (DN20 to DN600), flange classes 150 to 600, higher flange classes available upon request
- Designed to function in four distinct ways: as a purge dam, weld fixture, test plug, and a weld isolation plug
- Flange-to-pipe welds are tested without needing to pressurize the entire system



Quality Assurance / Product Approvals

- Manufactured in an ISO 9001:2015 registered facility
- Meets ASME PCC-2 Article 3.12 requirements and ASME Boiler and Pressure Vessel Codes
- Compliant with several QA Systems, including; ANSI N45.2, NQA-1, 10 CFR 50 App. B, 10 CFR 21, and TÜV Rheinland