



# Flange Weld, Test & Isolation

Safely Isolate, Weld, & 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



GripTight® Isolation Plug

## Our Number One Concern Is Safety, Is Yours?

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

### GripTight® Isolation Plug - Stats & Features

GripTight Isolation Plug can isolate and monitor potentially explosive vapors during hot work and hydrotest new weld connections with one easy to operate tool. Its dual port design creates a positive pressure barrier between the seals - safely isolating hot work from any residual upstream gases. The GripTight Isolation Test Plug integrates a Double Block and Bleed plug with our GripTight gripper technology, ensuring operational safety, and minimizing the risk of blowout/expulsion due to unexpected upstream pressure in the line.

#### 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) - *Custom sizes available upon request*

#### Standard Seal Material

- Urethane (*Alternate material including Neoprene, Fluoroelastomer, Silicone, EPDM, Natural Rubber, Nitrile Buna-N, and SBR Buna-S available upon request*)

#### Features

- Safely isolate hot work from any residual upstream gases
- Positive pressure barrier created between the seals
- Dual port system can circulate water (or other media) between seals, providing increased cooling capabilities during pre/post weld procedures
- Lightweight aluminum and steel construction - easy to maneuver
- Reduces fill times - perform pressure tests with less than a gallon (3.8L) of water

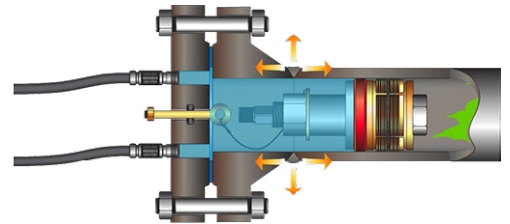
## Alternative Flange Weld Test & Isolation Plugs

### 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 48" NPS (DN50 to DN1200) – custom sizes available
- 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

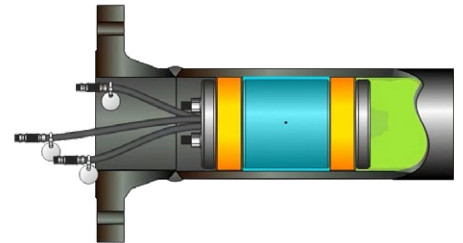


### Double Block and Bleed Test / Isolation Plug

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) – custom sizes available
- Monitors potentially explosive vapors during hot work
- Uses less than a gallon (3.8L) of water, reducing waste water, treatment expenses, and facilitates testing in remote areas of the facility

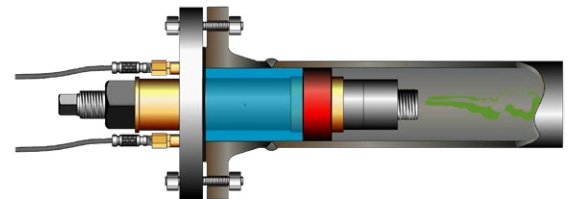


### High Lift Flange Weld Test Plug - The Original Flange Weld & Test Plug

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 2250 PsiG (155 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 503 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

## Application Sheet: Safely Isolate, Weld and Test Flange-to-Pipe Connections in Minutes



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