

# Nevis Pipeline Products, LLC.

## Series G Quick Opening Closure

**Nevis Pipeline Products, LLC**, based in Houston Texas, is recognized for supplying high quality, specialty pipeline equipment used within the Oil and Natural Gas Pipeline Industry.

Nevis developed the **Series G** range of Quick Opening Closures to provide a flexible solution for broad range of applications, including Pig / Scraper traps, Filtration and Process Vessels.

Originating from a simple concept, the Series G combines the proven reliance of the ASME Design Code with Patent Pending proprietary technology resulting in a product that matches the stringent demands and service requirements of the modern Oil & Gas industry.

Core to the Series G is an approach of uncomplicated simplified design, quality heavy duty construction and a minimization of parts used.

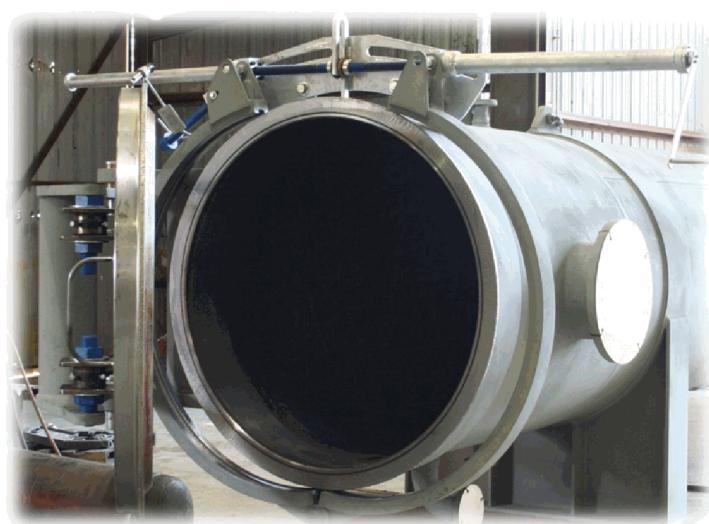
The application of extensive field and practical knowledge results in a product suitable to withstand long term operation in harsh environments.

To avoid the common approach of 'one closure fits all applications', Nevis provides the Series G in numerous configurations providing features needed for each specific application.

This enables Nevis to furnish closures for both standard on-shore installations, fitted with No-Sway davits for offshore installations and diver operated Sub-Sea operation.



### **Product Examples**



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### *Product Examples*



The Series G closures flexible design insures suitability for multiple applications including –

Size range: 4" to 72" diameters  
Design press : FV to +6705 psig  
Design temp.: -65 to +650 deg F

A wide range of materials of construction are available including low & high yield strength carbon steel, stainless steel, Duplex stainless steel, Inconel and Titanium grades.

Standard features throughout the Series G range of Closures include –

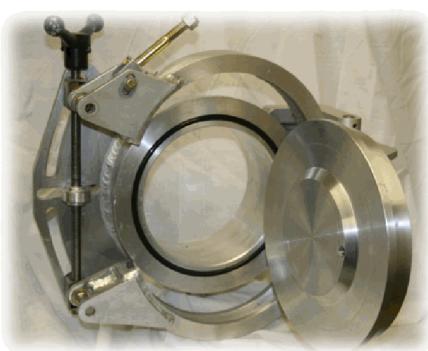
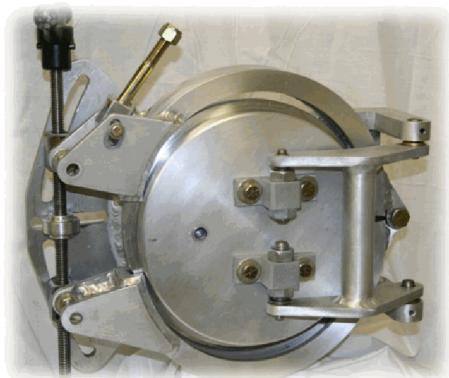
- ❖ Full compliance with ASME VIII Div 1
- ❖ Integral safety alert valve
- ❖ Wide variety of sealing materials by use of standard cross section O-rings.
- ❖ Simple heavy duty construction
- ❖ Clamp retaining bolts separate to actuation mechanism
- ❖ Proprietary actuation mechanism provides single point operation
- ❖ Full 360 degree load bearing on clamps
- ❖ Easy fabrication installation procedure
- ❖ Reduced maintenance
- ❖ Use of latest construction techniques.

To match client specifications, the Series G Closure can also be supplied with the following features –

- ❖ Encapsulated drive screws
- ❖ Specialized sealing options including metal to metal and explosive decompression resistant (EDR) grades
- ❖ Cladding or inlay of wetted surfaces
- ❖ No-Sway davit assemblies
- ❖ Customized and lockable hinges
- ❖ Incorporation of mechanical key interlock
- ❖ Lock out / tag out feature

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Operation of the Series G Closure is a simple, safe and fast procedure that can be easily achieved without specialized tools or equipment.

### Step one

Loosen the safety alert valve to verify that the vessel is fully depressurized.

### Step two

Fully remove the safety alert valve assembly providing access to the primary bolt.

### Step three

Loosen the primary bolt and swing the bolt carrier clear of the slotted retaining lug.

### Step four

Using the handwheel, actuate the mechanism to expand the clamp effective diameter and disengaging from the door.

### Step five

Using the hinge or davit assembly provided, move the door to the full open position.

Minimal maintenance of the Closure is required, typically limited to cleaning and inspection of contact & sealing surfaces and light lubrication. The simple design insures ease of field maintenance.

Closing procedure is the basic reversal of the opening sequence. A key feature being that safety alert valve can not be reinstalled until the clamp halves are returned to the full closed position and the primary bolt engaged with the clamps thereby insuring operator safety.

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For horizontal installations, the Series G Closure incorporates a double pivot side mounted hinge and which minimizes operating work area.

For vertical installations, the Series G adopts the use of several styles of lifting davit ranging from the simple screw jack style to the hydraulic mechanism.

Key features of the Series G Closure are –

- ❖ Integral and oversized pressure warning device
- ❖ Unique secondary locking feature to prevent unsafe operation.
- ❖ Easy to follow operating sequence.
- ❖ Heavy duty locking mechanism with proprietary design for actuation and safety.
- ❖ Single point, side mounted actuation providing simplified and safe operation.
- ❖ Heavy duty hinge or davit capable of fully supporting the door and providing unrestricted access to the vessel.
- ❖ Full compliance with both ASME VIII Div 1 and major International / Client specifications.

For additional information, please contact -

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