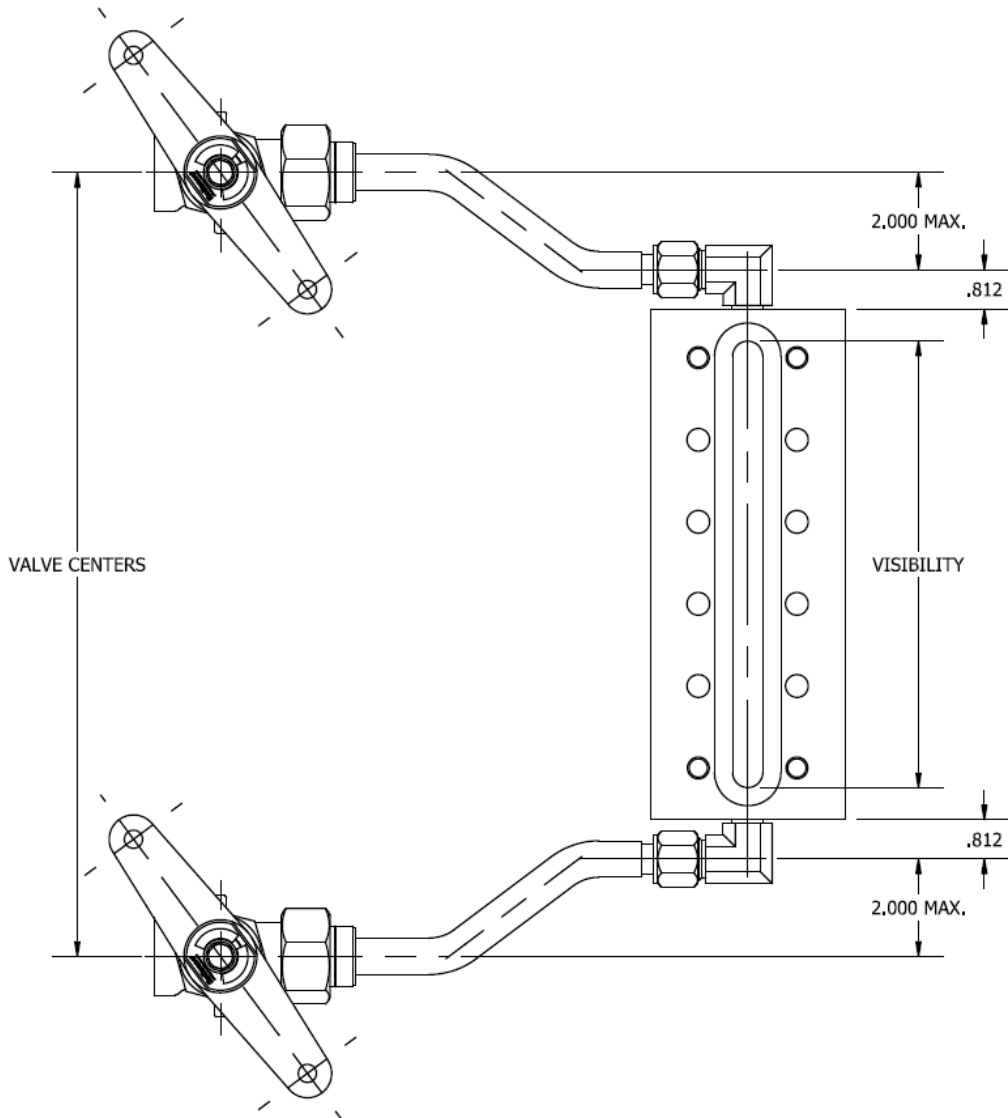


## Instructions for Installing Tiltview Prismatic Gage with Offset Nipples



**Reliance**<sup>®</sup>

A PRODUCT OF CLARK-RELIANCE

16633 Foltz Parkway • Strongsville, OH 44149 USA Telephone: +1 (440) 572-1500  
www.clark-reliance.com • sales@clark-reliance.com

## **STORAGE and HANDLING**

Reliance® equipment meets or exceeds all applicable specifications when shipped from the factory. The equipment should be stored in an area protected from the elements and corrosive fumes, in a secure manner where they can neither fall, nor be struck by other objects. Avoid placing any objects on the valves or Boil-out Kit (if furnished) at any time. The temperature of the storage area should not exceed 150 degrees F. (65.5 degrees C) or drop below 32 degrees F (0 degrees C).

## **Unpacking and inspection**

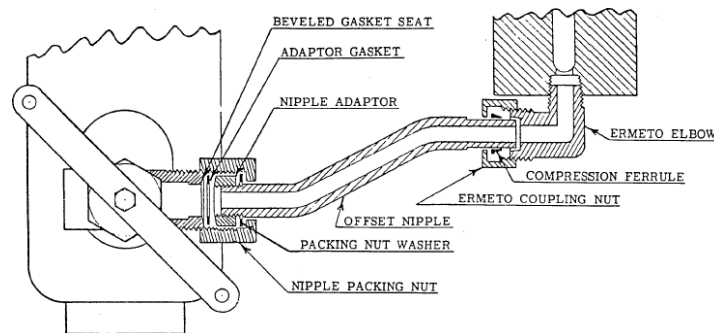
Upon receipt of the Boiler Drum Level instruments, examine the contents of the container(s) for damage. Care should be exercised as the items are uncrated. The shipment may contain fragile glass components. Report any faulty conditions as soon as possible to your carrier to avoid acceptance of damaged goods. Clark-Reliance will not be responsible for goods damaged in shipping or storage, or subsequent loss or damage due to improper storage or exposure as a result of damage to shipping containers. Submit a digital photo of any damaged equipment and container to Clark-Reliance, if possible. Verify that all materials are present as recorded on the Packing List provided with each shipment. Report any discrepancies to Clark-Reliance immediately. Have the Clark-Reliance order number and shipping waybill available at the time of your call.

## **Handling**

Your Clark-Reliance shipment has been carefully packed. However, the shipment may include spare parts, temporary water gages and valves for “Boil-out” purposes, maintenance instructions, and engineering drawings. Upon receipt of the order, the equipment and above items should be identified and verified against the packing list. Any documentation that has been provided should be directed to the appropriate personnel.

## **Important:**

Before proceeding, follow any and all plant lock out - tag out procedures required. If under pressure, the equipment should be isolated, or the boiler should be shut down before proceeding with the installation. Open drain valve to eliminate any trapped pressure. All inspection and installation steps should be performed by a qualified technician and should be executed in accordance with all applicable national and local codes.



## **SECTIONAL ASSEMBLY VIEW OF LOWER OFFSET NIPPLE ASSEMBLY**

# Reliance®

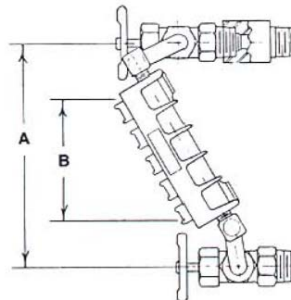
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## INSTALLATION STEPS:

1. Isolate the assembly and open the drain valve to relieve any trapped pressure. Disconnect the drain piping.
2. Remove packing nuts, packing rings, packing washers, and the existing gage glass.
3. Remove the handles from the upper and lower water gage valves.
4. a) For right hand assembly: turn the upper valve  $\frac{3}{4}$  turn clockwise and lower valve  $\frac{1}{4}$  turn clockwise  
b) For left hand assembly: turn the upper valve  $\frac{1}{4}$  turn clockwise and the lower valve  $\frac{3}{4}$  turn clockwise
4. Inspect beveled gasket seat in both valves. Dirt and old packing fragments should be removed, taking care not to damage the surface of the seat. If necessary, fine (150 grit) emery cloth may be used to improve the seat surface. Also, remove any old packing from the nipple packing nuts.
5. Install offset nipples and gage glass as shown above, applying only enough hand torque to the nipple packing nut and Ermeto coupling nut to prevent the gage glass from slipping. Be sure the adaptor gasket is positioned with exposed fiber face in contact with the beveled gasket seat in the valve.
6. Use a level or other accurate instrument to adjust the gage glass to vertical position.
7. With the gage glass in the vertical position, tighten both nipple packing nuts and both Ermeto coupling nuts. Replace the drain piping onto the lower valve.
8. Adjust the sprockets in the water gage valve handles so that the handles are in proper tandem position when put back on the valve stems. (refer to IOM #E207-A)
9. Replace handles and operating chains back on the water gage valves.
10. The Tiltview Assembly is now ready to be put back into service. Check for any leaks. If a leak is found, isolate the assembly, and open the drain valve to relieve pressure. Repair the leak and place the Tiltview Assembly back into service. Repeat if leaks continue.
11. See IOM #R500.E221B for Bronze Valve maintenance.

***Note:*** *If the weight of the gage with an illuminator installed causes any sag of the assembly, check the tightness of the packing nut, and support the gage glass to prevent any sag in the future.*



TILTVIEW ASSEMBLIES  
EMPLOYING OFFSET NIPPLES INCREASE  
THE LEVEL VIEWING AREA (B) POSSIBLE  
BETWEEN GIVEN GAGE VALVE CENTERS (A).

**Caution:** Do not install with any downward slope on the lower nipple or upward slope on the upper nipple. Lower nipple slope must be horizontal to 2" upward. Upper nipple slope must be horizontal to 2" downward.

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Consult the factory or your local Clark-Reliance Representative with any questions. Please have the model numbers and/or reference drawing numbers available when calling. You can also contact us at our website [www.relianceboilertrim.com](http://www.relianceboilertrim.com) or [RelianceAppEng@clark-reliance.com](mailto:RelianceAppEng@clark-reliance.com).

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