



IN BUSINESS



# Series 7800

## Installation, Operation, and Maintenance Instructions

# Installation Procedure

- Loosen wing nuts and remove weatherhood.
- Withdraw pressure pallet assembly. Remove and discard protective cardboard and tape from assembly. The cardboard protects the diaphragm during shipment.
- Remove protective flange cover.
- Check carefully to insure that all packing materials are removed from on or inside the vent housing and from the pallet assembly.
- Mount the vent to the appropriate tank flange using gaskets compatible with service conditions. Note: For some vent styles, threaded studs that mate with tapped holes in the vent housing flange are provided. For best performance, the vent should be mounted level so that the seating surfaces are no more than 1° off horizontal.
- Reinstall the pressure pallet assembly. Setting weights (if provided) should be installed by engaging the hole in the weight on the pallet assembly stem. Make sure that weights are properly installed as marked to provide specified set points. Heavy weights may be provided with tapped holes to temporarily attach lifting hardware to facilitate installation. Any such threaded fasteners used during installation must be removed from the weights. Foreign objects will limit the lift capability of the pallet assemblies and will reduce rated flow capacity of the vent.
- Replace the weatherhood. Note: Make sure that the pressure pallet assembly stem positively engages the hole in the stem guide in the weatherhood. It may be useful to verify engagement of the pressure stem into the weatherhood guide by unthreading the guide and then reinstalling it with the stem centered in the hole. The pallet assembly must be free to move upwards, with the pallet stem traveling into the stem guide.
- Secure hood with wing nuts.

## NOTE 1:

This vent style includes a removable weatherhood. The hood stem guide may be taped to the top of the hood to prevent damage during shipment. This stem guide will be threaded into the tapped hole on top of the hood.

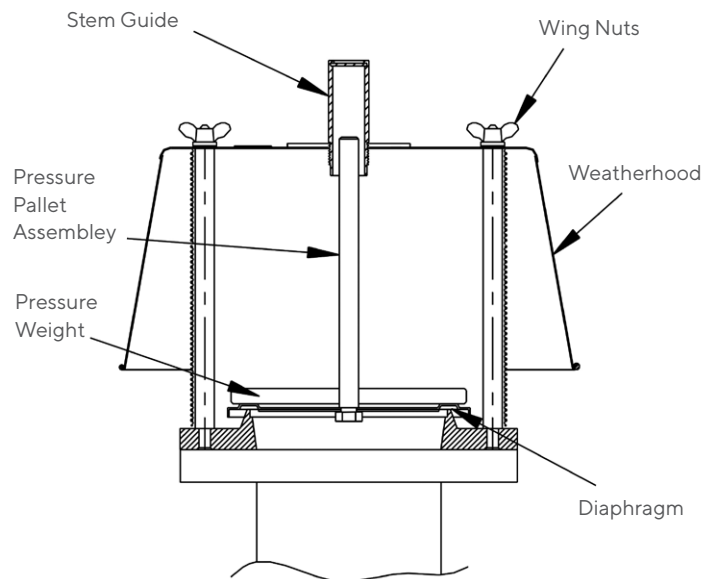
## NOTE 2:

When pressure weights (packed separately if heavy) are included with a unit, the weights should be inspected, properly identified and set aside for later installation. Weights will be stamped with a serial number matching the number on the vent; identification as pressure or vacuum weights; and a statement as to the contribution that each weight provides to the total pressure setting.

## Caution!

**If any questions arise concerning the proper installation or maintenance of our products, please contact Protectoseal or one of our Authorized Representatives.**

**When installing any Protectoseal device, the legal, corporate and advisory safety regulations and procedures appropriate for the specific installation site must be fully understood and followed.**



# Maintenance

Protectoseal recommends that our products be inspected and maintained according to the normal maintenance schedule of the facility. At a minimum, maintenance should be conducted annually. More frequent maintenance may be required, and should be scheduled, for unusual service conditions.

## Caution!

**When maintaining any Protectoseal device, the legal, corporate and advisory safety regulations and procedures appropriate for the specific installation site must be fully understood and followed.**

## Caution!

**Tank vapor space pressure or vacuum should be relieved before any maintenance operations are undertaken.**

## Caution!

**Do not use a file or other sharp tool to clean the seating surface.**

- Reinstall the pressure pallet assembly. Setting weights (if provided) should be installed by engaging the hole in the weight on the pallet assembly stem. Make sure that weights are properly installed as marked to provide specified set points. Heavy weights may be provided with tapped holes to temporarily attach lifting hardware to facilitate installation. Any such threaded fasteners used during installation must be removed from the weights. Foreign objects will limit the lift capability of the pallet assembly and will reduce rated flow capacity of the vent.
- Replace the weatherhood. NOTE: Make sure that the pressure pallet assembly stem positively engage the hole in the stem guide in the weatherhood and in the weatherhood. It may be useful to verify engagement of the pressure stem into the weatherhood stem guide by unthreading the guide and then reinstalling it with the stem centered in the hole. The pallet assembly must be free to move upwards, with the pallet stem traveling into the stem guide.
- Secure weatherhood with wing nuts.

## Maintenance Procedure:

- Loosen wing nuts and remove weatherhood.
- Remove any loose dirt or foreign material from the housing interior and exterior. Check inside the stem guide hole of the cover and remove any dirt or accumulation of foreign material.
- Withdraw the pressure pallet assembly and any weights. Set aside for inspection. Note: Identify any weights on the pressure pallet assembly for later reinstallation.
- Inspect the screen that protects the pressure port. Clean or replace as necessary.
- Inspect and clean the machined seating surface in the vent with a suitable cleaning fluid. Seat should be free of nicks, marks or accumulation of foreign material.
- Inspect the pallet assembly. If pallet is deteriorated or bent, it must be replaced. Inspect the diaphragm material in the pallet assembly. The diaphragm must be clean, flat and smooth. If the diaphragm material is deteriorated, it must be replaced. Make sure that all nuts and screws on the pallet assembly are tightened securely.



# For Safety, Efficiency and Environmental Protection

## ■ Pressure/Vacuum Relief Vents

Pallets open and close to permit only the intake or outlet relief necessary to stay within permissible working pressures and avoid damage to tank.

## ■ Pipe-Away Relief Vents

Pressure/Vacuum relief for applications that require hazardous vapors to be processed into manifolded piping and not released into the atmosphere.

## ■ Emergency Vents

Protect tanks against rupture or explosion resulting from excessive internal pressure caused by exposure to fires. PIN-TECH® units featuring <500 ppm leakage available.

## ■ Flame Arresters

Prevent external flame entry into storage or processing tanks via vent opening.

## ■ Detonation Arresters

Withstand and arrest high velocity and pressure flame fronts approaching from either direction in closed or manifolded piping systems.

## ■ Tank Blanketing Valves

Control the flow of an inert gas into the vapor space of a storage tank so that the tank pressure can be maintained within an acceptable range.

**Contact Protectoseal today** to learn more  
about our safety solutions and how our  
maintenance services can keep your operations  
secure and compliant.



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