

CAUTION:

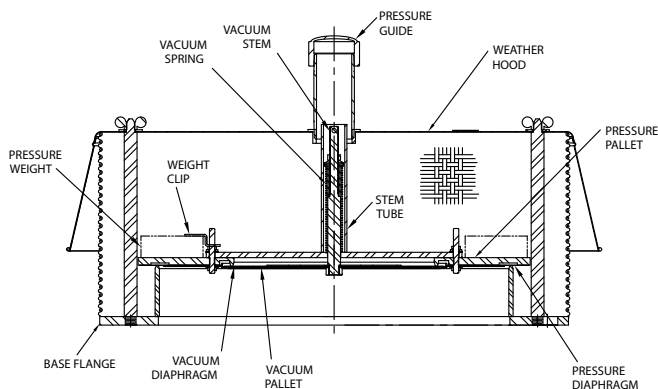
If any questions arise concerning the proper installation or maintenance of our products, please contact Protectoseal or one of our Authorized Representatives.

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.



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.



4. Mount the vent to the appropriate tank flange using gaskets compatible with service conditions. For best performance, the vent should be mounted level so that the seating surfaces are no more than 1° off horizontal.
5. Reinstall the pallet assembly. If pressure setting weight(s) are provided, assemble the weight(s) to the top of the pallet assembly. This is accomplished by centering the weight(s) on the pallet and then securing the weight(s) with the provided weight clips. 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.
7. Replace the weatherhood. Note: Make sure that the pallet assembly stem tube positively engages the hole in the stem guide in the weatherhood. It may be useful to verify engagement of the 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.
8. Secure hood with wing nuts.

INSTALLATION PROCEDURE:

1. Loosen wing nuts and remove weatherhood.
2. Withdraw pallet assembly. Remove and discard all protective cardboard and tape from the pallet assemblies. The cardboard protects the diaphragms during shipment.
3. Check carefully to insure that all packing materials are removed from on or inside the vent housing and from the pallet assembly.

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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.

MAINTENANCE PROCEDURE:

1. Loosen wing nuts and remove weatherhood.
2. Withdraw the pallet assembly and any weights. Set aside for inspection. Note: Identify any weights on the pallet assembly for later reinstallation.
3. Inspect the protective screen. Clean or replace as necessary.
4. Remove any loose dirt or foreign material from the seating surfaces and from the pallet assembly areas. Check inside the stem guide hole of the cover and remove any dirt or accumulation of foreign material. Make sure that the vacuum pallet assembly is free to move against the setting force of the spring. Note: The vacuum setting is Factory set by compression of the spring. The compressed height of the spring should not be changed during any maintenance operations. Changes to the spring compression will change the vacuum set point of the vent.
5. Inspect and clean the machined seating surface in the vent with a suitable cleaning fluid. Seat should be free of nicks, mars or accumulation of foreign material.
6. Inspect the pressure and vacuum pallet assemblies. If a pallet is deteriorated or bent, it must be replaced. Inspect the diaphragm material in the pallet assemblies. The diaphragm must be clean, flat and smooth. If the diaphragm material is deteriorated, it must be replaced. To remove the vacuum diaphragm, press vacuum pallet stem down, align hole in vacuum pallet stem with hole on the stem tube. Insert suitable pin through hole thus locking vacuum pallet in lowered position. The vacuum diaphragm is now replaced by removing the nut that holds the vacuum pallet in position, removing the pallet and reinstalling the vacuum diaphragm. The pallet should be repositioned and the nut should be secured. The pressure diaphragm can be replaced by removing the fasteners that hold the diaphragm retainer to the pallet. The diaphragm retainer and diaphragm can then be removed. Replace diaphragm and reassemble diaphragm retainer to unit with fasteners.
7. Reinstall the pallet assembly. If pressure setting weight(s) are provided, assemble the weight(s) to the top of the pallet assembly. This is accomplished by centering the weight(s) on the pallet and then securing the weight(s) with the provided weight clips. 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.
8. Replace the weatherhood. NOTE: Make sure that the pressure pallet assembly stem tube positively engages the hole in the stem guide on 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.

ADDITIONAL PRODUCTS FROM PROTECTOSEAL

Series 18540



Pipe-Away Pressure Vacuum Relief Vent for applications that require hazardous vapors be processed into manifolded piping and not released into the atmosphere

Series 53300



Emergency Pressure Manhole Cover Vents provide emergency pressure relief for storage tanks where vacuum relief is being provided for by a separate operating vent

Series 4950



Vent Line / In-Line Parallel Plate Flame Arrester is designed for installation in open vent pipe or bleed lines from storage or processing tanks. Suitable for NEC Group D (IEC Group IIA) vapors

Series 830



Combination Pressure / Vacuum Relief Vent & Flame Arrester provides pressure and vacuum relief as well as protection from propagation of externally introduced flames. Suitable for NEC Group D (IEC Group IIA) vapors.