

CONTINENTAL NH3 PRODUCTS
INSTALLATION, OPERATION, REPAIR AND MAINTENANCE INSTRUCTIONS

PRODUCT SERIES: A-402-VA, A-402-VA265, A-417-AB

ATTENTION: Please follow all of the instruction in this manual carefully and read the entire manual completely, failure to do so may cause the product to function improperly or fail causing serious injury or death.

DANGER  **DANGER**

ANHYDROUS AMMONIA IS AN INHALATION HAZARD AND WILL CAUSE SERIOUS INJURY OR DEATH. PLEASE USE EXTREME CAUTION WHEN HANDLING IT OR PERFORMING ANY MAINTENANCE ON EQUIPMENT USED FOR ANHYDROUS AMMONIA.

ATTENTION: Before performing any installation, operation, repair or maintenance please follow the instructions below.

1. You must be certified to work with anhydrous ammonia. If you are not please seek out the appropriate agricultural department to attend a class to obtain the proper certification.
2. Wear appropriate safety goggles, gloves and breathing apparatuses.
3. Drain all tanks, hoses and piping of anhydrous ammonia **COMPLETELY** before removing, installing, performing maintenance or repairing any equipment.
4. Always remove device from service before performing any maintenance or repair
5. have sufficient water near by
6. Obey all local, state and federal laws regarding the handling of anhydrous ammonia

INSTALLATION & OPERATION

1. See following pages for a complete set of installation and operational instructions.

MAINTENANCE

1. See following pages for a complete set of maintenance instructions

REPAIR

1. There is no repairing this product, replace valve with new one.

QUESTIONS CALL 800-537-5642

CONTINENTAL NH3 SAFETY RELIEF VALVES

Installation, Inspection & Replacement

Continental's safety relief valves, AA-402-VA, AA-402-VA-265 and AA-417-AB, meet the requirements of the ASME Boiler and Pressure Vessel Code Section VIII Division 1. They are designed for installation in the vapor area of anhydrous ammonia containers for agriculture use. Their function is to open and relieve pressure when it exceeds the designed working pressure of the container.

PART NUMBER	AA-402-VA	AA-402-VA-265	AA-417-Ab
Inlet/NPT Connection	3/4" NPT	3/4" NPT	1-1/4" NPT
Wrench Size	1-3/4"	1-3/4"	3"
Overall Height	3-1/2"	3-1/2"	8"
Set Pressure	250 PSI	265 PSI	250 PSI
SCFM @20% Overpressure	2057	2130	5886
ASME UL			6770

WARNING:



Do not attempt installation, inspection, or maintenance unless you have been thoroughly trained in proper procedures and any applicable regulations concerning anhydrous ammonia relief valves. Call your dealer should you need help in securing a qualified serviceman.

INSTALLATION

1. These relief valves must be installed in accordance with the ANSI standards K-61.1 and any applicable state, local, and federal codes.
2. These relief valves must be installed so as to have direct communication with the vapor space of the container.
3. Take care not to strip the male threads. Use an anti-seize pipe thread sealant such as Continental's L-P Seal.
4. The discharge of these valves must be directed away from the container, upward and unobstructed to the atmosphere.
5. The discharge opening must be covered by a suitable rain cap that will allow a free discharge of vapor and prevent the entrance of water as well as dust and other contaminants.

WARNING:



No substance, such as grease or anything else, is permitted to be packed or placed inside the discharge opening of the relief valves. Such a substance could impair the proper functioning of the relief valve and create a hazardous condition

6. No shut-off valves are permitted to be installed between the relief valve and the container.

Exception: A relief valve manifold which allows one valve to be closed off with the remaining unblocked valve(s) providing not less than the discharge rate shown on the manifold nameplate is permitted.

CONTINENTAL NH3 SAFETY RELIEF VALVES

Installation, Inspection & Replacement

INSPECTION

1. These relief valves should be regularly inspected (at least once a year) according to the guidelines as established by *The Fertilizer Institute*. If a relief valve has discharged, both the entire system and the valve should be carefully inspected right away in order to determine the cause. Remedy the cause before continuing operations!

CAUTION:



Always wear proper gloves and goggles when performing an inspection. Never look directly down into the discharge end of a relief valve. Stand to one side and use a mirror for viewing.

2. Make sure that the relief valve is free of dirt, rust, and other foreign matter.
3. Replace the rain cap if it is damaged or missing.
4. Make sure that the drain (weep) hole in the lower portion of the relief valve is unobstructed.
5. If there is evidence of tampering, damage, excessive corrosion, or impacted debris, or if discharge has occurred due to fire, the relief valve must be replaced.
6. If the relief valve leaks at a tank pressure of below 240 PSI, replace the valve.

WARNING:



Continental safety relief valves are permanently set at the factory. *Do not attempt to repair or change the setting. Any field repairs or changes in setting voids any and all warranty and may create a serious hazard.*

REPLACEMENT

Unless conditions warrant an earlier removal, all Continental safety relief valves must be replaced no later than 5 years from the date of manufacture.