

ANHYDROUS AMMONIA (NH₃) SAFETY ALERT – FOR IMMEDIATE ACTION

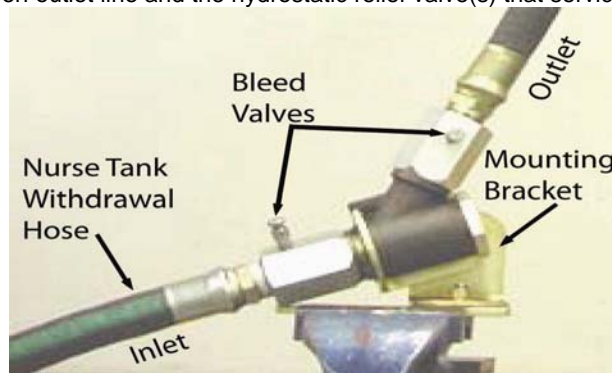
It has come to the attention of the Minnesota Department of Agriculture (MDA) that hydrostatic relief valves have been improperly installed in break-away coupler ports where bleed or bleeder valves are required. Such installation is inconsistent with the manufacturer's specifications. This substitution presents a serious safety issue that must be **IMMEDIATELY** corrected to prevent exposure and injury.

ALWAYS use bleeder valve(s) and verify **total** removal of NH₃ prior to disconnecting, removing, separating, reconnecting couplers, hoses, or other NH₃ lines.

WARNING!
Squibb Taylor RB Coupler⁽¹⁾
Install bleeder valves ONLY in ports provided by the Manufacturer
The RB Coupler is NOT equipped with ports for hydrostatic relief valves

Outlet Line – Hydrostatic relief valve required: A hydrostatic relief valve is required to protect this segment of the hosing/system. Why? When flow has stopped and the RB Coupler outlet check valve is closed, NH₃ will be trapped between the RB Coupler outlet and the hydraulic or electric NH₃ shut-off valve when the shut-off is closed.

Exception: When no shut-off exist between outlet line and the hydrostatic relief valve(s) that service the cold flow unit.



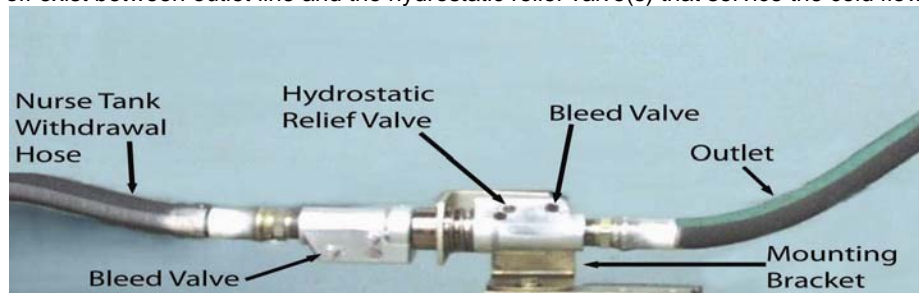
Withdrawal Hose (Inlet Line) - Hydrostatic Relief Valve May Be Required Between Nurse Tank and RB Coupler:

Whenever the withdrawal hose is permanently attached to the applicator/toolbar, a hydrostatic relief valve is required to protect the withdrawal hose if there is a shut-off or when the hose and coupler have been separated. A hydrostatic relief valve is also required in the nurse tank withdrawal valve.

WARNING!
Squibb Taylor Flo-Max Coupler⁽¹⁾
Install bleeder valves and a hydrostatic relief valve ONLY in the specific ports provided by the Manufacturer

Outlet Line – Hydrostatic relief valve required in port designated by Manufacturer: A hydrostatic relief valve is required to protect this segment of the hosing/system. Why? When flow has stopped and the Flo-Max Coupler outlet swing check valve is closed, NH₃ will be trapped between the Flo-Max Coupler outlet and the hydraulic or electric NH₃ shut-off valve when the shut-off is closed.

Exception: When no shut-off exist between outlet line and the hydrostatic relief valve(s) that service the cold flow unit.



Withdrawal Hose (Inlet Line) - Hydrostatic Relief Valve May Be Required Between Nurse Tank and Flo-Max Coupler:

Whenever the withdrawal hose is permanently attached to the applicator/toolbar, a hydrostatic relief valve is required to protect the withdrawal hose if there is a shut-off or when the hose and coupler have been separated. A hydrostatic relief valve is also required in the nurse tank withdrawal valve.

(1) Squibb Taylor contributed to the contents of this page.

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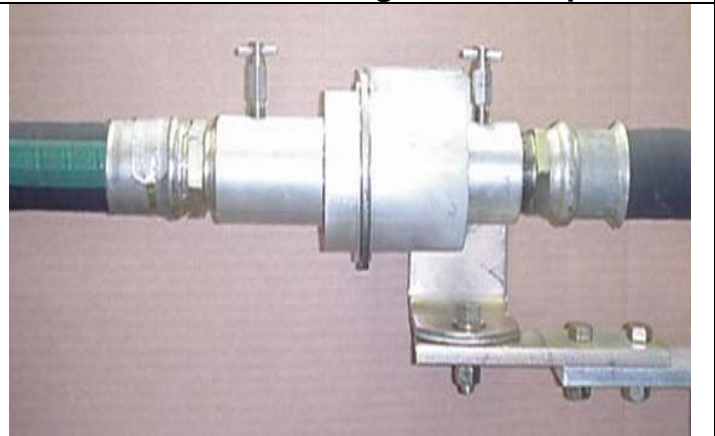
ALWAYS use bleed/bleeder valve(s) and verify **total** removal of NH₃ prior to disconnecting, removing, separating, reconnecting couplers, hoses, or other NH₃ lines.

WARNING!

Install bleeder valves **ONLY** in ports provided by the Manufacturer

Parker Pioneer Ammonia Coupler Assembly

Continental NH₃ High Flow Coupler



- Note the location of the bleeder valve in each of the two couplers (Parker Pioneer and Continental NH₃ brand couplers).
- **Additional bleeder valves may need to be installed for isolated hosing and lines in the NH₃ delivery system.**
- The manufacturers of these two couplers have not provided ports for the installation of hydrostatic relief valves.
- **Separate fittings that accommodate the installation of hydrostatic relief valves must be used.**
- Hydrostatic relief valves are required to protect NH₃ hoses and lines between each set of positive shut-offs and when a hose and coupler have been disconnected:

- Couplers: Install hydrostatic relief valves in the discharge side of the coupler.
- Withdrawal hose:

Whenever the withdrawal hose is permanently attached to the applicator/toolbar, a hydrostatic relief valve is required to protect the withdrawal hose if there is a shut-off or when the hose and coupler have been separated. A hydrostatic relief valve is also required in the nurse tank withdrawal valve.

Contact your NH₃ equipment manufacturer/distributor for more complete details on the subjects covered in this SAFETY ALERT as well as how to properly and safely install and use NH₃ equipment from specific manufacturers.

Contact the MDA NH₃ Inspector in your area for questions about MDA regulations:

Bob Rialson @ 507/746-4483 (S/SE MN), Jim Freilinger @ 320/243- 7382 (Central MN/Metro), Mike Fick @ 218/863-2984 (NC MN) , and Scott Revier @ 218/938-4076 (NW MN) or Ed Kaiser in the St. Paul Office at (651) 201-6275.