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

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, 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 apparatus.
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. Apply pipe thread sealant to any pipe thread to be installed into valve.
2. The recommended direction to plumb the valve is noted on the valve body. It can be plumbed either way but for best results plumb piping on the noted port on the valve body.
3. Make sure the valve is turned off before installation.
4. Make sure valve is facing the appropriate direction in relation to flow
5. Before operating valve make sure valve is attached to appropriate piping, hose or fitting.
6. Before operating the valve make sure there is appropriate hoses and valves are attached to the outlet side of the valve. Never open valve with out appropriate hoses and valve down stream of the valve, doing so will release anhydrous ammonia into the air that could cause sever injury.
7. Before open the valve turn off any down steam valve to prevent ammonia from spraying out into the air.
8. To open valve turn hand wheel counter clockwise all the way until the hand wheel stops turning. NEVER OPEN VALVE PARTIALLY; DOING SO WILL PREVENT ANY EXCESS FLOW CHECK IN THE SYSTEM FROM FUNCTIONING PROPERLY.
9. To close valve turn hand wheel clockwise and tighten firmly. NEVER LEAVE VALVE OPEN UNATTENDED OR WHILE TRAVELING DOWN A ROAD. VALVE SHOULD ONLY BE OPEN WHILE IN USE.
10. If valve is attached to a coupling, follow step 8 then drain connection with appropriate bleeder valve. Pay close attention to the direction the bleeder valve port is facing and make sure it’s pointing in a safe direction. See Coupling and bleeder valve operational instruction for more detailed instruction.

MAINTENANCE
1. Check valve regularly for leaks and wear.
2. If any threads on the valve are getting warn down replace the valve immediately
3. If valve leaks from pipe thread connection try to tighten the valve to stop the leak. If it continues to leak replace the valve.
4. If valve leaks from the stem, seat or bonnet purchase repair kit A-2829-RK and follow repair instructions.

REPAIR
1. Remove valve from service by following the above ATTENTIONS AND CAUTIONS.
2. Remove bonnet assembly 28-02 from valve body by removing the bonnet retain nuts and remove hand wheel from stem.
3. Replace bonnet gasket 28-80X
4. Remove stem assembly 28-5312-CA, packing nut 28-14X.
7. Coat acme threads with grease and thread stem back into bonnet.
8. Place some light to medium duty lock tight on the threads of the packing number 28-14X bonnet and install in over the stem and thread it into the bonnet, make sure the spring and all bonnet packing remains in place and tighten firmly with wrench.
9. Reinstall bonnet assembly and tighten all 4 bonnet bolts firmly.
10. Replace hand wheel and reinstall hand wheel washer and lock nut.
11. Reinstall the valve into service by following the above installation instructions.

QUESTIONS CALL 800-537-5642