

CONTINENTAL NH3 PRODUCTS

INSTALLATION, OPERATION, REPAIR AND MAINTENANCE INSTRUCTIONS

PRODUCT SERIES: A-BVT-1-SO

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, 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. The A-BVT-1-SO is a 1" inline electric shutoff valve for use in Anhydrous Ammonia
2. Make sure the valve installed in the correct direction by observing the flow arrow stamped on the valve. To verify the valve installed correctly the small weep hole drilled into the ball should point upstream.
3. Put anti seize sealant on both inlet and outlet male pipe threads and tighten both inlet and outlet with wrench, do not over tighten you may gall the threads.
4. Attach the electric cable from the controller to the cable protruding from the electric motor.

MAINTENANCE

1. Check the valve regularly for leaks and wear.
2. If leaking ammonia from pipe threads try tightening with a pipe wrench, if this fails replace valve.
3. If leaking from stem or flange install repair kit, A-BVT-RK or replace valve immediately.

REPAIR

1. Remove unit from service by following the above ATTENTIONS AND CAUTIONS.
2. Remove electric motor by removing the side bolts 09-375-75.
3. Remove bonnet BVT-100 and pull stem BVT-441 out of the main body BVT-01. Replace the lower seal 09-8114 and reinstall washer 197-700. Reinstall stem BVT-441 into main body BVT-01. Remove packing from bonnet BVT-100 and reinstall washer 1970700 and replace the upper seal 09-8114 and bonnet o-ring BV-8120
4. Reinstall Bonnet BVT-100 use thread sealant on the threads and tighten firmly with wrench.
5. Remove Allen screws 197-3816-150 and remove inlet flange 09-03-RB, Remove ball 09-80 and all ball packing from body BVT-01 and discard o-rings and Teflon packing.
6. Reinstall new packing into body in this order from back to front. 09-76 o-ring, 1=09-60F, ball 09-80, 1=09-60F. Replace flange seal o-ring 09-74 and reinstall inlet flange 09-03-RB with Allen screws 197-1816-150 and tighten firmly.
7. Reinstall back into service by following the above installation instructions.

QUESTIONS CALL 800-537-5642