

GENERAL

This manual contains maintenance and repair instructions for the Aurora 3-Way Strainer Valve. All sizes and models of the 3-Way Strainer Valve are covered. The parts list with an exploded view is provided to facilitate identification of repair parts and also to aid in disassembly and repair operations. Consult your local Aurora Pump sales office for any further information and material on other Aurora products.

DESCRIPTION

The Aurora 3-Way Strainer Valve was designed for use in condensate return units and other low pressure systems. Once installed, the valve will keep your system free of foreign matter, plus provide a shut off between tank and pump. The possibility of a clogged pump is completely eliminated. The valve consists of a body, valve plug, attaching parts for the valve plug and a wire mesh strainer retained in the valve body by a pipe plug. Maintenance is at a minimum as the only requirement is keeping the strainer clean. The valve strainer is installed in a inclined position so foreign matter entering the strainer will be washed down to collect at its lower end.

INSTALLATION

Installing your Aurora valve is a simple job, however, a few points should be considered. The valve must be located at a level below the tank or reservoir to provide a gravity flow of liquid. Position the valve so that removal of the strainer can be made easily and also with room provided for applying a wrench to operate the valve. Both intake and discharge nozzles are threaded internally to receive the connecting lines. Install the valve between tank and pump securing all piping.



Do not start pump with valve in "shut off" position.

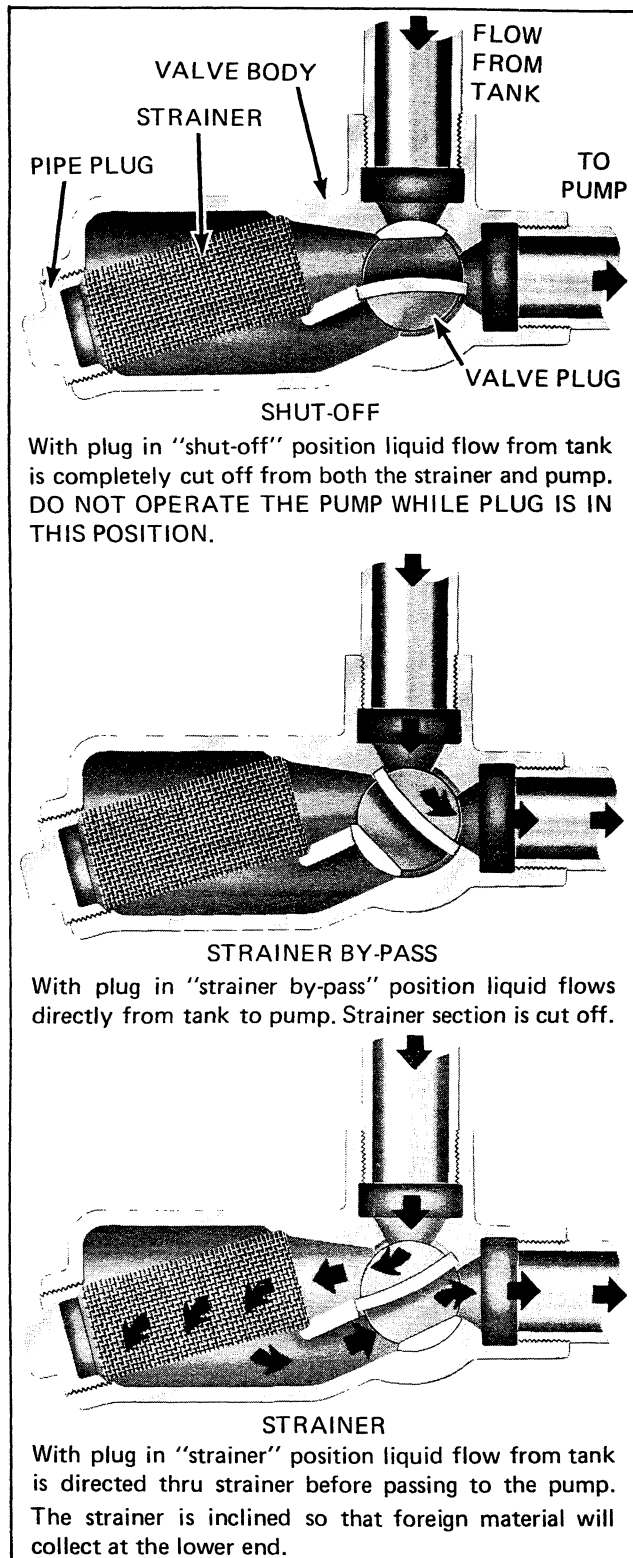


Figure 1. Valve Plug Positions and Liquid Flow

THREE WAY VALVE

OPERATION

Operating your Aurora valve can be done easily and quickly. Each of the three valve plug positions are clearly stamped on the valve body. Located on the valve plug is an arrow which indicates its position. To set the valve, loosen nut (3) and turn the valve plug to the desired position.

NOTE

Always secure nut (3) after changing position of valve plug.

The three positions and their functions are illustrated in Figure 1.

The valve strainer can be removed for cleaning by removing the retaining pipe plug.

NOTE

Be sure valve plug is in "strainer by-pass" position before removing strainer pipe plug.

Replacing Parts. The fastest and most economical remedy for repairing your Aurora valve is replacing parts. After the trouble has been identified, proceed to remove the defective part. The gaskets should be replaced at reassembly simply as a matter of economy. They are much less expensive to replace routinely than to replace as the need occurs.

Disassembly. Disassemble the valve as illustrated in Figure 2. Inspect removed parts at disassembly to determine their reusability. Cracked castings should never be used. Having the valve removed, proceed to disassemble as follows:

1. Unscrew plug (1) and remove strainer (2).
2. Loosen and remove nut (3) from valve plug with washer (4). Disassemble valve plug (5) from valve body (8).
3. Remove the two gaskets (6 and 7) from valve plug.

Reassembly. Clean and inspect all parts thoroughly prior to reassembly. Check that all mating surfaces are free of nicks, burrs and corrosion. Proceed to reassemble the valve as follows.

1. Install the two gaskets (6 and 7) on the valve plug (5).
2. Assemble the valve plug into the valve body (8) and secure the washer (4) and nut (3).
3. Insert the strainer (2) into the body and assemble plug (1).

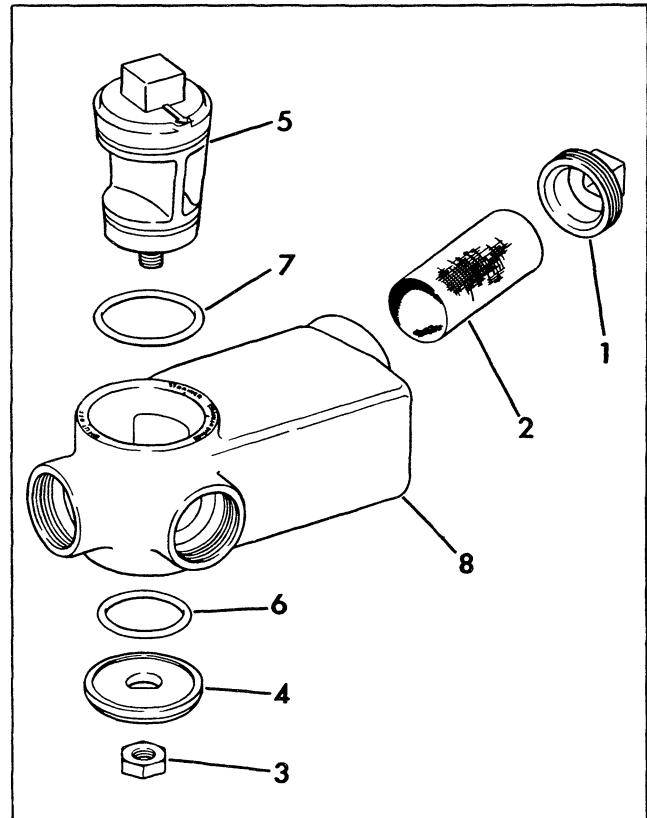


Figure 2. Valve Exploded View

List of Parts For Three Way Valve

- | | |
|--------------------|----------------|
| 1. Plug, Strainer | 5. Plug, Valve |
| 2. Strainer | 6. Gasket |
| 3. Nut, Valve Plug | 7. Gasket |
| 4. Washer | 8. Valve Body |