



PRODUCT WATER DIVERTER VALVE ASSEMBLY

THE PRODUCT WATER DIVERTER VALVE ASSEMBLY IS DESIGNED TO DIVERT THE PRODUCT WATER TO DRAIN WHEN IT EXCEEDS THE SET LIMIT OF THE WATER QUALITY METER.

THE DIVERTER VALVE ASSEMBLY CONSISTS OF THE FOLLOWING COMPONENTS:

- 1) 3 WAY, ¾" MOTORIZED PVC BALL VALVE ASSEMBLY
- 2) ¾" PRESURE RELEIF VALVE
- 3) STAINLESS STEEL PRESSURE GAUGE
- 4) CONTROL UNIT

THE MOTORIZED PORTION OF THE VALVE ASSEMBLY OPERATES ON 24 VAC, WHICH IT RECEIVES FROM THE R.O. SYSTEM.

OPERATION:

WHEN THE R.O. SYSTEM IS FIRST TURNED ON, THE VALVE WILL AUTOMATICALLY DIVERT THE PRODUCT WATER TO DRAIN, TO INSURE THE PRODUCT WATER DURING THE INITIAL START UP IS BELOW THE SET LIMIT PRIOR BEING SET TO THE STORAGE TANK OR STATION. **AAMI RECOMMENDS THE PRODUCT WATER TDS SHOULD NOT EXCEED 50 PPM.**

IF THE PRODUCT WATER QUALITY EXCEEDS THE SET LIMIT, THE VALVE WILL DIVERT THE WATER TO DRAIN, UNTIL THE PRODUCT WATER TDS FALLS BELOW THE LIMIT.

IF YOUR R.O. SYSTEM OPERATES WITH AN R.O. WATER STORAGE AND PUMPING SYSTEM, THE VALVE WILL SUPPLY R.O. WATER TO THE TANK, PROVIDED THE PRODUCT TDS IS BELOW THE SET LIMIT.

WHEN THE TANK IS FULL, THE VALVE WILL AUTOMATICALLY DIVERT TO DRAIN. WHEN THE R.O. RESTARTS, A TIME DELAY WILL KEEP THE VALVE IN THE DRAIN POSITION FOR A MINIMUM OF ONE MINUTE, TO INSURE THE PRODUCT TDS IS BELOW THE SET LIMIT. IF THE PRODUCT TDS IS ABOVE THE SET LIMIT, THE VALVE WILL REMAIN IN THE DRAIN MODE. WHEN THE PRODUCT WATER FALLS BELOW THE SET LIMIT, THE VALVE WILL ROTATE TO FEED THE TANK.

DURING THE R.O. SYSTEM DISINFECT MODE, THE R.O. DISINFECT KEY SWITCH WILL INTERRUPT THE DIVERTER VALVE TO ALLOW DISINFECTANT FROM THE R.O. TO ENTER THE TANK OR TO BE SUPPLIED TO THE R.O. LOOP (IF YOU HAVE A DEMAND R.O.) THE VALVE WILL RESUME IT'S NORMAL OPERATION WHEN THE DISINFECT KEY IS TURNED OFF.



THE NURSES MONITOR AND THE VALVE ASSEMBLY HAVE LIGHTS TO INDICATE WHEN THE WATER IS DIVERTING TO DRAIN (FLASHING RED) OR TO THE STORAGE TANK OR STATIONS (NON-FLASHING GREEN LIGHT).

IF POWER TO THE R.O. IS INTERRUPTED, THE VALVE WILL AUTOMATICALLY DIVERT TO DRAIN UNTIL THE PRODUCT WATER TDS FALLS BELOW THE SET LIMIT WHEN POWER IS RESTORED.

IF THE VALVE FAILS TO ROTATE, THE MOTORIZED PORTION HAS A WHEEL THAT HAS SLOTS TO INSERT A SCREWDRIVER, TO ALLOW YOU TO TURN THE VALVE MANUALLY.

POWER TO THE VALVE MUST BE DISCONNECTED BY TURNING OFF THE R.O., BEFORE THIS CAN BE DONE.