

# ANDERSON<sup>TM</sup>

A division of the Clark•Reliance Corp.

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## INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS FOR ANDERSON BI INTERNAL PURIFIERS

### INSTALLATION INSTRUCTIONS

The most common use of the Anderson "BI" Purifier is in a steam drum where the headroom is limited. For this reason, the unit is completely designed so as to occupy a minimum amount of space.

The "BI" Purifier is always shipped assembled. If the Purifier cannot be passed through the manway of the steam drum, it must be disassembled outside the drum and reassembled inside. After it is once again assembled, it is mounted in place. Refer to Anderson Drawing 77E-235, Rev. 5 for proper installation.

The assembly of the "BI" Purifier is a simple procedure. The following steps should be followed in the order presented. Please refer to the included Anderson Drawing 74E-7, Rev. 5 for the location of the various parts of the Purifier.

- Step 1. Place either half of the Purifier body on its outer shell so that you are looking down directly into the internal parts of the unit.
- Step 2. Drop Plate "B" into place so that it wedges between Clips "A" and Plate "C".
- Step 3. Drop Plate "E" into place so that Plate "D" wedges between Clips "F". The Drain Coupling "G" on Plate "B" can be in any position around the center axis, however, the drain hole in Plate "E" must coincide with it. Without this coincidence, it will be impossible to install the eject pipe in Drain Coupling "G".
- Step 4. Place the other half of the Purifier body on the previously assembled half, taking the same precautions as discussed in Steps 2 and 3.
- Step 5. Assemble the nuts and bolts in Clips "H" on the outer shell of the Purifier, but do not draw tightly together until the unit is mounted on the outlet nozzle of the steam drum.
- Step 6. Mount the Purifier in place when it is assembled as described in Step 5, by passing the previously mounted studs in the steam drum through the Lugs "I". It is essential to have good alignment between the upper machined face of the Purifier and the steam drum nozzle to prevent leakage.
- Step 7. In order to assure good alignment and a tight joint at the outlet nozzle, draw together the two halves of the Purifier and at the same time, tighten the nuts on the support studs.
- Step 8. Mount the eject pipes and install baffle plates shown on Drawing 77E-235. **CAUTION:** The surge check valves have a maximum operating pressure of 1000 PSIG. It is recommended that the SCVs be installed after hydrotest to prevent collapse. The BI unit may be hydro-tested inside the drum at no risk for damage.

**CAUTION:** It is essential that Plate "B" is wedged between Plate "C" and Clips "A", and, likewise, Plate "D" is wedged between Clips "F" and Plate "E". Further, the alignment of the two halves of the upper machined face with respect to each other and the face of the outlet nozzle is very important in order to eliminate steam leakage.

### OPERATING INSTRUCTIONS

Once the Anderson "BI" Purifier is installed, it requires no other action by the Operator. The Purifier is complete in itself, and will function whenever there is flow through the Purifier.

### MAINTENANCE INSTRUCTIONS

There is no required maintenance with this Purifier, other than periodic inspection of the internals being required to assure that no damage has occurred by potential over pressurization of the system, or by an incoming liquid slug. Also, the drains, surge check valves, and the eject pipes should be checked and cleared should any debris or sediment block the drain. Once the Purifier has been placed into service, no other maintenance is required other than the normal maintenance afforded the Steam Drum internals.

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