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# Installation and Maintenance

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## SERIES CD-2000 AND TT-2000 STEAM TRAPS

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This bulletin should be used by experienced personnel as a guide to the installation of CD-2000 and TT-2000 steam traps. Always use competent technical assistance when selecting or installing equipment. We encourage you to contact Armstrong or its local representative if further information is required.

CD-2000 controlled disc and TT-2000 thermostatic bellows traps are piped **inline** by a 360° universal connector and may be installed in any position. This connector is also interchangeable with Armstrong's Series 2010 inverted bucket steam traps.

### INSTALLATION

Observe pressure limitations stated on the trap label. Recommended installation includes a 12" drip leg with a 6" dirt leg, installed below the heat exchange or process equipment being drained (See Figure 1-A). Since thermostatic and disc traps can back up condensate, an adequate cooling leg should be provided as well. The trap inlet should be below the condensate discharge connection of the equipment being drained. Install an isolation valve upstream of the trap to facilitate trap renewal. The piping should also include a strainer and a union ahead of the trap. Traps discharging to closed returns should have an additional isolation valve downstream from the trap with a test valve (for visual inspection) between the trap outlet and the downstream isolation valve. (See Fig. 1-A).

Before installing the strainer and trap, blow down the line at full steam pressure. Use pipe dope or teflon tape sparingly, and on male threads only. Leave the end thread exposed to avoid introducing the sealant into the system. When installing the connector block, observe the flow arrow marking. Use the flats provided for the wrenching surface. **FAILURE TO USE THE PROPER WRENCHING SURFACE MAY DAMAGE GASKET SURFACES.** Install trap and torque bolts to 35-50 ft./lbs.

Avoid elevating condensate if the equipment being drained is under modulating control. When disc traps discharge to a closed return, avoid conditions that could create excessive back pressure. Back pressure in the return lines should not exceed 50% of the inlet pressure.

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### MAINTENANCE

When replacement becomes necessary, simply isolate the series 2000 trap from the steam supply and closed return discharge lines, VALVES IN STEAM LINES SHOULD BE OPENED OR CLOSED BY AUTHORIZED PERSONNEL ONLY, FOLLOWING THE CORRECT PROCEDURE FOR SPECIFIC SYSTEM CONDITIONS. FAILURE TO FOLLOW CORRECT PROCEDURES CAN RESULT IN SYSTEM DAMAGE AND POSSIBLE BODILY INJURY. Remove the two connector bolts and trap. The connector block stays in line. Be sure the connector's gasket surfaces are free of dirt and scale. Install the replacement capsule and torque the new bolts to 35-50 ft./lbs. New gaskets and bolts are provided with each replacement capsule.

### IDENTIFICATION

CD-2000 and TT-2000 traps look identical externally. To identify the traps, the model type is marked on the label, and by a stamped letter on the mechanism support between the trap body and the connector flange. Controlled disc traps are designated by the letter "C". Thermostatic bellows traps are designated by the letter "T" (See Figure 1-B). Install these traps so the identification letter is visible for future reference.

