

## MAINTENANCE

Isolate trap before performing any maintenance. Inspect and clean strainer periodically. Dirt and deposits can cause erratic operation of trap. To clean, remove cap and wipe disc and seat surfaces with cleaning solvent.

A monkey wrench or other smooth jaw wrench should be used to remove the cap. Pipe wrenches can distort the cap and damage the body seating surfaces.

(C) Do not use wrench on insulation cover (only on flats of the cap) Do not hammer insulation cover. The only wearing parts of Thermodynamic traps are (A) the valve disc and (B) the inner and outer seat rings which are integral with the body. These parts can be field reconditioned by lapping using simple equipment.

**SPARE PARTS AVAILABLE** A - Disc C - Cap Assembly

**LAPPING THE DISC** A lapping holder consisting of a plate recessed to receive the disc should be used to keep the disc flat. A satisfactory surface cannot be obtained when the disc is hand held. Lapping should be limited to the removal of .005 inches in order to insure correct operation of the trap.

**LAPPING THE SEAT RING** It is safe to remove up to a maximum of .010 inches from the seat ring without affecting the trap's operation.

**CAP REPLACEMENT** When re-assembling, place disc on valve seat with groove side down. Apply an antiseizeur compound (such as Molykote) to cap threads on body being careful not to smear compound on disc or seating surfaces.

**NOTE:** -If caps are replaced without a torque wrench, do not pull the cap too tight until steam is turned on. Then, tighten only enough to stop steam leakage. Excessive torque on the cap or steam leakage can cause rapid cycling and abnormal wear. Torque recommendations are listed below for the various size traps.

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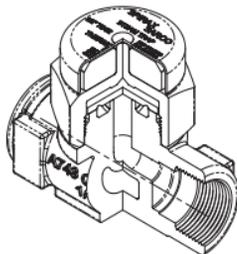
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## INSTALLATION AND MAINTENANCE INSTRUCTIONS

IM-2-516-US

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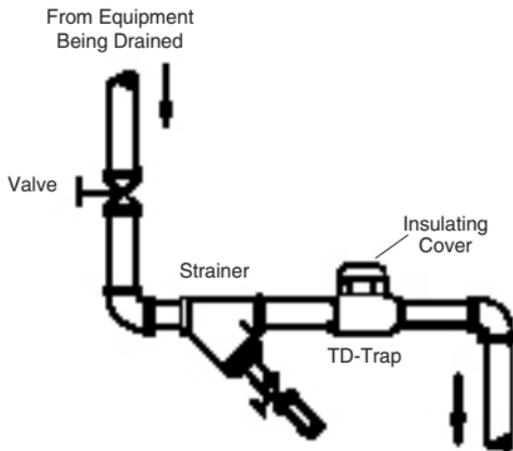
**COOL  
BLUE**   
**TD52**  
and  
**TDT**

## THERMO-DYNAMIC® STEAM TRAPS

**TD-52** Pressure range 3.5 thru 600 psig/.24 to 41.4 bar; temperatures to 800°F/426°C Maximum back pressure 80% of inlet pressure.

Trap Size		CAP Torque FT•LB
3/8"	TD-52 & 1/2" TD-L and 1/2" TDT	70
1/2"	TD-52 & 3/4" TD-L	90
3/4"	TD-52	140
1"	TD-52	125

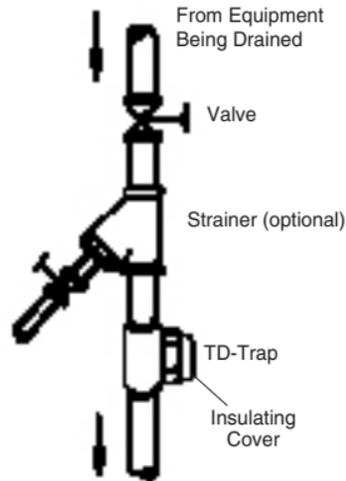
## TYPICAL INSTALLATIONS



### NOTE:

1. Install TD-Trap in horizontal position as close as possible to equipment being drained.
2. Install strainer (20 mesh) and stop valve (gate type) upstream of trap.
3. Piping to and from the trap should be at least equal to or one size larger than trap connection.
4. Never weld pipe connection to trap. Body material not suitable for welding.
5. Installing cover may rotate and does not affect trap operation.
6. Do not hammer the insulating cover as damage to ceramic and cover may occur.

## FREEZE RESISTANT



1. All notes for standard installation apply.
2. All drain lines must be pitched toward the trap for gravity flow.
3. Trap must be installed vertically, discharging downward.
4. Discharge piping must be self-draining.