MAINTENANCE
Isolate trap before performing any main-
tenance. Inspect and clean strainer
periodically. Dirt and deposits can
cause erratic operation of trap. To clean,
remove cap and wipe disc and seat sur-
faces 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 antiseizure com-
pound (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.

<table>
<thead>
<tr>
<th>Trap Size</th>
<th>CAP Torque FT•LB</th>
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<tbody>
<tr>
<td>3/8”</td>
<td>TD-52 &amp; 1/2” TD-L and 1/2” TDT 70</td>
</tr>
<tr>
<td>1/2”</td>
<td>TD-52 &amp; 3/4” TD-L 90</td>
</tr>
<tr>
<td>3/4”</td>
<td>TD-52 140</td>
</tr>
<tr>
<td>1”</td>
<td>TD-52 125</td>
</tr>
</tbody>
</table>

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.
**TYPICAL INSTALLATIONS**

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.
5. Installating 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.