



PARTACO
Thermodynamic Steam Trap
Model TD 46-1 CMT
Manual Catalog

Introduction

TD 46-1 CMT is a thermodynamic steam trap with a thermostatic air vent which provides the possibility of a fast and safe startup/shutdown in addition to normal operation with a medium capacity of discharging water condensate in a temperature very close to the saturation.

TD 46-1 CMT under the brand of "PARTACO" can do the duty of condensate removal from steam mains, tracers, and coils, in the pressure range of 0.3 to 46 barG, not only without concern of chocking or air binding but also with satisfaction of energy efficiency.







Piping Arrangement and installation

Following matters must be checked during installation:

- All the process of handling with a steam trap should be carried out only by trained personnel.
- Suitable pipe diameter and enough space around the trap for maintenance operation should be considered.
- Install the trap with a minimum pipe length and bends and at the lowest part of the pipelines or equipment so that the condensate flows naturally down into the trap.
- Install bypass valve and isolating valves at the inlet and outlet of the trap and if the outlet is subject to back pressure or there is more than one trap connected to the condensate collection pipeline, install a check valve at the outlet.
- Support the pipes within 0.8m on either side of the trap with a proper method.
- Make sure the discharge pipes are large enough and the back pressure is not more than 80% of the inlet steam pressure.



- Install the trap in a way that the arrow on the body, points to the direction of fluid flow.
- Install for use in a way that no freeze up or water hammer will occur.
- Blow out inlet piping to remove rust, scale or oils remaining inside the pipe.
- For socket weld connections use electric welding with a single pass.

Correct	Incorrect	
		Too small diameter
		Protruding inlet into the pipe
		Rust and scale flow into the trap
		Condensate accumulation in the pipe

3 Nameplate definition



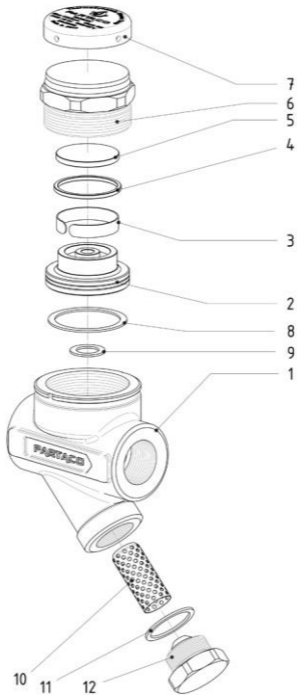
- I*: Model
- II*: Size(nominal diameter (DN) and NPS (inch))
- III*: ASME pressure rating designation
- IV*: Maximum operational pressure
- V*: Maximum operational temperature
- VI*: Serial Number

Part List

Item	Description
1	Body
2	Module Valve Seat
3	Air Vent Ring
4	Disc Holder Ring
5	Disc
6	Cover
7	Air Jacket
8	Outer Module Gasket
9	Inner Module Gasket
10	Screen
11	Screen Holder Gasket
12	Screen Holder

Tightening Torque

Part	Tightening Torque
Cover	450 (N.m)
Screen Holder	300 (N.m)



Visual inspection

There might be different states for inspection of a thermodynamic steam trap operation:

Normal: discharge of condensate occurs in a few seconds (related to pipeline conditions) and then the steam trap will be shut for a period of time. you might see some flash steam (not live steam) in closed state of trap.

Blocked: no condensate is discharged and the trap body is in a low temperature and it make no noise.

Blowing: live steam is continuously flowing through the outlet and a nonstop metallic sound might be heard.

Steam Leakage: live steam and condensate discharge from the outlet with a high pitch sound.

Chattering: the trap does not close properly. Steam is discharged from the trap in short rapid bursts.



**For More Information...
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