

THERMO-DYNAMIC® STEAM TRAPS

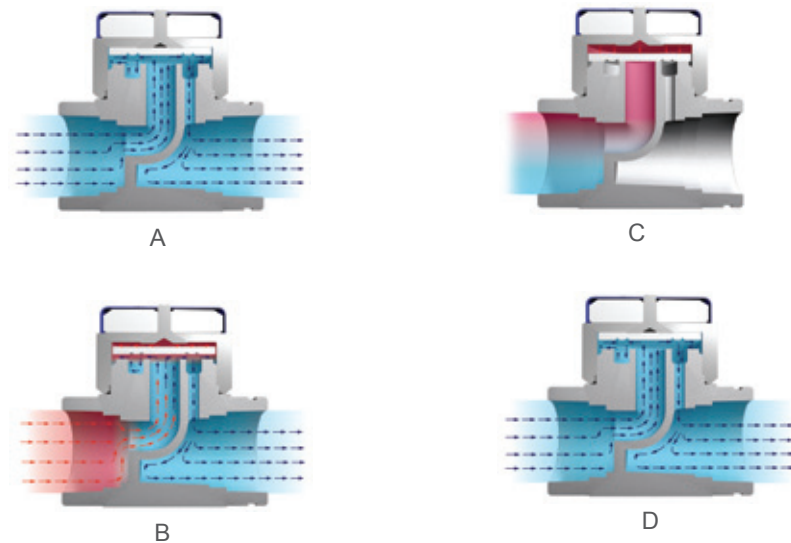
The world's FIRST Thermo-Dynamic® disc trap is still the worlds BEST

The Thermo-Dynamic® disc trap is one of the most popular steam traps on the market today. The cost effective, compact design makes the TD ideal for drainage of steam mains, steam tracing lines, and small process steady state equipment where size, as well efficient operation are important.

Discharge from the TD is close to steam temperature; therefore, the steam space is kept free from condensate. The tight shut-off the TD prevents valuable steam from being wasted. These factors combine to optimize the steam system efficiency. Maintaining a small carbon footprint.

How Thermo-Dynamic® Steam Traps work

On start-up incoming pressure raises the disc and cool condensate, plus air, is discharged (A). Hot condensate flowing through the trap releases flash steam. High velocity flash steam creates a low-pressure area under the disc draws the disc toward the seat. (B). At the same time there is a pressure build-up of flash steam in the chamber above the disc which forces it down against the seats on the inner ring and closes the inlet port. The disc also seats on the outer ring and traps the flash steam pressure in the chamber (C). Pressure in the chamber is decreases by the condensation of the flash steam from the cooler condensate collecting at the trap inlet and the disc is raised open the trap to discharge condensate. The cycle is then repeated (D).



User Benefits

- Condensate is discharged close to steam temperature at all operating pressures. Withstands superheat, waterhammer, freezing, corrosive condensate and vibration.
- Only one moving part — a stainless steel disc hardened for long life.
- Blast discharge with clean, tight shutoff audible “click” as the disc seats. Performance is easily checked.
- Single piece stainless steel body eliminates internal gaskets and leak paths.
- Will work in any orientation. Available in swivel connector configuration for best orientation and simplified maintenance.

Thermo-Dynamic® Steam Traps

Model	Connection	Flow Pattern	Body Material	Pressure (PSIG)	3/8"	1/2"	3/4"	1"	Integral Strainer	Blowdown Valve		
	TD52*	NPT	Stainless Steel	600	•	•	•	•	No	N/A		
	TDT			150		•	•	•				
TDC	600			•	•	•	•					
TD42	SW, NPT ANSI 300 ANSI 600			Inline Horizontal	Alloy Steel	600		•	•	•	Standard	Optional
TD62LM						900		•	•	•	Standard	Optional NPT and SW Only
TD62M		900			•	•	•	Standard	Optional NPT and SW Only			
TD120	SW, BW ANSI 1500		Forged Alloy Steel	3,625		•	•	•	Standard	N/A		

* "L" version low capacity available 1/2" and 3/4" sizes

Cool Blue Series Steam Trap



Pressures 300 PSIG or less

First for Steam Solutions