



# TDK-71

## THERMODYNAMIC STEAM TRAP

### GENERAL FEATURES

Ayvaz TDK-71 thermodynamic steam traps leak tightness parts are made of stainless steel and body is made of stainless steel casting. Output pressure shouldn't pass %80 of initial pressure at operating conditions. TDK-71 can work automatically depending on condensate load. We can supply all spare parts. Filter is type Y and cleaning is very easy.

Ayvaz TDK-71 should be assembled to the pipe line at horizontal position for working efficiently and long working time. Isolation valves should be used for safety during the maintenance and steam traps changing.

#### **Product Features**

Body	Stainless Steel AISI 304
Cover	Stainless Steel AISI 304
Internals and float	Stainless Steel AISI 304
Connection Types	Threaded

#### **Operation Conditions**

Max. Operating Pressure (PMO)	42 ba
Body Pressure Class	PN63
Max. Operating Temperature (TMO)	400°C







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SPARE PARTS			DIMENSIONS					
No	Name	Material		Size	L	Н	H1	H2
1	Body	Stainless Casting ASTM A743(CA 40F)	1 [	1/2"	78	41	95	33
2	Cover	Stainless Steel AISI 304	1 [	3/4"	90	43	110	39
3	Strainer Screen	Stainless Steel AISI 304	][	1″	95	52	124	45
4	Disc	Stainless Steel AISI 420	1					
5	Discharge Bolt	Stainless Steel AISI 304						

AA

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### OPERATION

At start-up, the disc is pushed off its seat by any air or condensate entering the trap. When the steam enters the trap, it passes through the reduced area at the face of the disc, increasing in velocity and, therefore, decreasing in pressure. Some of the steam is discharged directly into the outlet stream, but a portion of it passes to a control chamber above the disc. The disc snaps shut because the pressure in the control chamber above acts on the whole disc, while the inlet pressure of the high-velocity steam acts only on a small area of the disc.

A small bleed groove across the disc allows the steam and air to bleed out of the control chamber over time. When the force above the disc is overcome by the force of incoming steam, condensate or air on the face of the disc, the trap opens, discharging condensate that has accumulated during the cycle.



PART LIST			
NO	PART NAME	MATERIAL	
1	Discharge Bolt	Stainless Steel AISI 304	
2	Strainer Screen	Stainless Steel AISI 304	
3	Body	ASTM A743 CA40F Corrosion resistant alloy	
4	Cover	Stainless Steel AISI 304	
5	Disc	Stainless Steel AISI 420	

