

# TKK-41&42

## THERMOSTATIC STEAM TRAPS

### GENERAL FEATURES

Ayvac TKK-41 is suitable for corrosive medium especially sugar industry for ammoniac evacuation and it has also resistant to water hammer. It is impossible to clean TKK 41 because it is welded type however TKK-42 is suitable for cleaning.

Body, cover, filter are stainless steel.

The difference of TKK-42 is compact design and low condensate evacuation.

It is ideal for corrosive medium.

Ayvac TKK-41 / TKK-42 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.

### Operation

Thermostatic steam traps operate according to the thermostatic attitude of a capsule which is placed into the trap. Capsule contains a special liquid inside which has lower vapourisation temperature than water. When the system starts up the cold condensate

drops down the temperature of the capsule. Compressed capsule pushes the disc upward and discharges the condensate. With the increasing condensate temperature, liquid in the capsule starts vaporisation. Expanded capsule pushes the disc towards the seat and stops discharging.

### Installation:

TKK-41-42 can be installed both vertically and horizontally with the pipeline. Flow direction indicator arrow on the product body should be examined carefully. In case discharging of condensate into the atmosphere, temperature of the released condensate which is around 100°C must be considered closely in order to maintain health and safety.

### Connection:

Screwed

### Nominal Diameter:

DN10 (3/8") - DN15 (1/2")  
- DN20 (3/4")

### Working Pressure:

Up to 40 bar

**Working Temperature:**  
Up to 250°C

### Applications:

Steam jacket pipes  
Irons  
Ammonium releasers

### Condensate Discharge Chart:

#### Red Chart

$\Delta P$ = Condensate Discharge at the temperature which is max 10°C lower than steam saturation temperature.

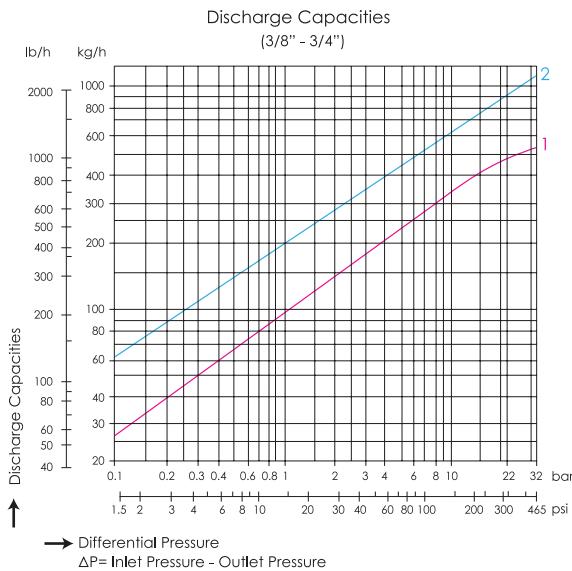
#### Blue Chart

$\Delta P$ = Cold Condensate Discharge at 20°C.

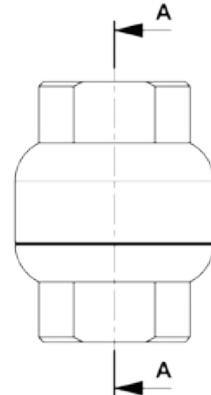
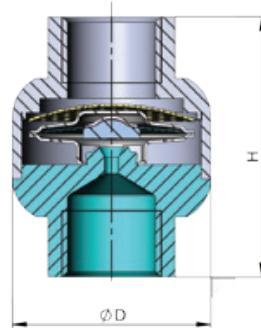


PRODUCT FEATURES	
Body and Cover	Stainless Steel AISI 316 (TKK-41) Stainless Steel AISI 316 (TKK-42)
Strainer, Seat	Stainless Steel AISI 304
Thermosatic Capsule	Hastelloy
Connection Types	Threaded, Socket

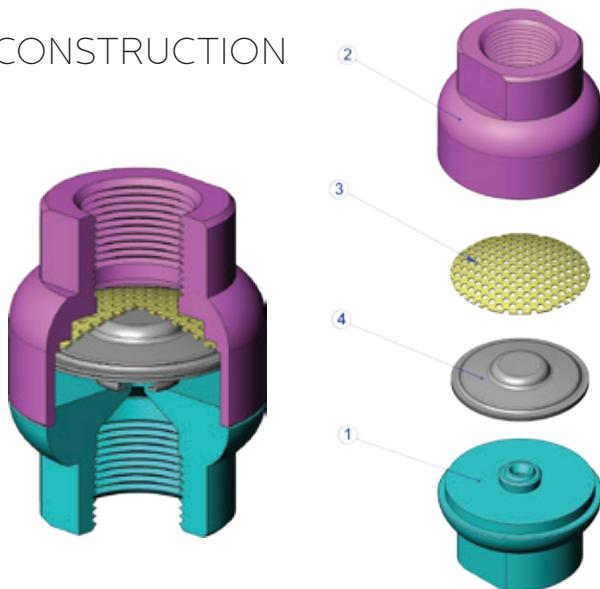
# TKK-41&42 THERMOSTATIC STEAM TRAPS



## DIMENSIONS



## CONSTRUCTION



Size	Code	Threaded	
		ØD (mm)	ØH (mm)
<b>TKK-41</b>			
3/8"	703100501000	55	42
1/2"	703100501001	55	42
3/4"	703100501002	55	42
<b>TKK-42</b>			
1/4"	703100600990	65	42
3/8"	703100601000	65	42
1/2"	703100601001	65	42
3/4"	703100601002	65	42
1"	703100601003	65	42

All the dimensions in the table are given in "mm". Subject to technical alterations and deviations resulting from the manufacturing process without giving any notification.

Part Name		Material
1	Body	Stainless Steel AISI 304 Opt.Stainless Steel AISI 316
2	Cover	Stainless Steel AISI 304 Opt.Stainless Steel AISI 316
3	Strainer Screen	Stainless Steel AISI 304
4	Thermostatic Capsule	Hastelloy

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