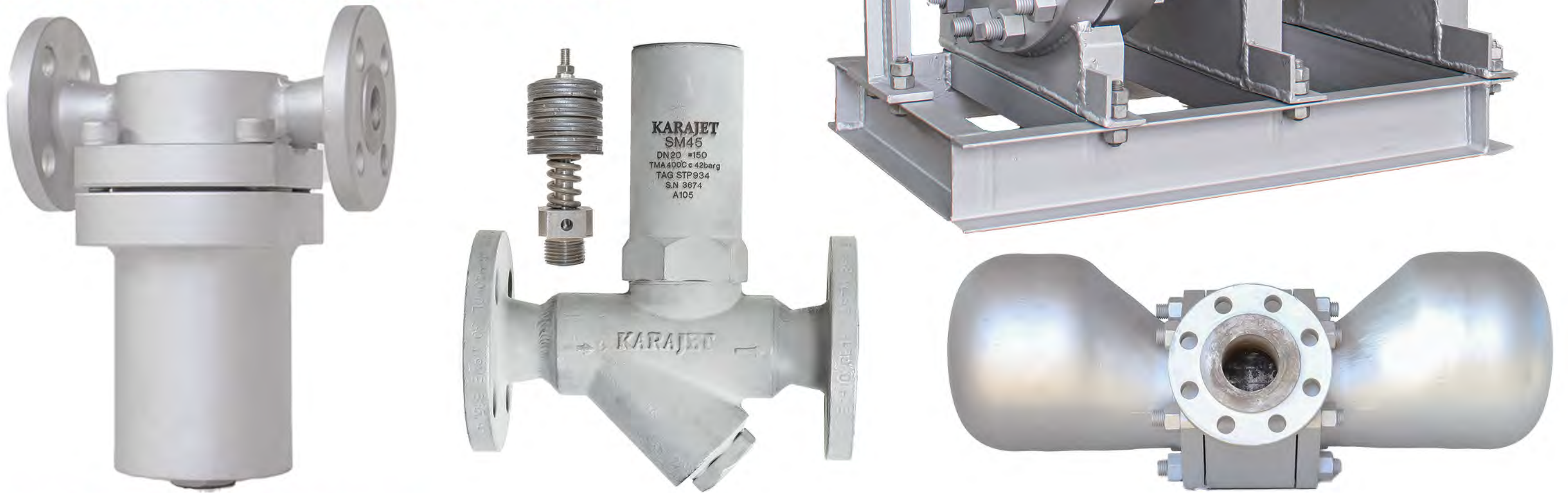


## Steam Trap Principles

A steam trap is a self-contained valve that automatically drains the condensate from a steam-containing enclosure while remaining tight to live steam, or if necessary, allowing steam to flow at a controlled or adjusted rate. Most steam traps will also pass non-condensable gases while remaining tight to live steam. Effective removal of condensate by a trap from a steam system is important for maintaining the performance of process equipment as well as ensuring safe operation of the system.

## Only Manufactured By KARAJET®

KARAJET® is the only Iranian company that manufactures high pressure and high capacity steam traps reaching up to body rating of **ANSI #2500** and **180,000 kg/h** in capacity. We are also the sole manufacturer of special types of steam trap such as **Thermostatic**, **Invert Bucket** and **Venturi**.



## Performance Test Setup

Every steam trap produced at this company gets tested before being shipped. KARAJET® experts have designed a setup that is capable of simulating the operating situation of a steam line in order to test the performance of steam traps. This setup is designed based on the ASME PTS 39 standard and consists of two boilers: one for testing regular traps with a maximum pressure of 16 bars and a volume of 25 m<sup>3</sup>, the other for testing high-pressure thermostatic and thermodynamic traps, providing steam pressure up to 80 bars. Fluid level-meter, pressure control valves, thermometers, and high-precision pressure gauges are also installed to increase measurement accuracy.



## THERMODYNAMIC

### TD42 / TD42R Series

Pres: 63 bar | Temp: 425 °C |  $0.7 \leq \Delta P \leq 42$  bar | Capacity: 1,800 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: A105, A743, SS304, SS316 | Body Rating (ANSI): #150, #300

### TD52 / TD52R Series

Pres: 100 bar | Temp: 425 °C |  $0.7 \leq \Delta P \leq 42$  bar | Capacity: 800 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: A105, A743, SS304, SS316 | Body Rating (ANSI): #600

### TD62 Series

Pres: 103 bar | Temp: 525 °C |  $1.4 \leq \Delta P \leq 62$  bar | Capacity: 400 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: F11, F12, F22, A105, SS304, SS316 | Body Rating (ANSI): #600

### TD120 Series

Pres: 250 bar | Temp: 550 °C |  $8 \leq \Delta P \leq 250$  bar | Capacity: 280 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: F11, F12, F22, A105, SS304, SS316 | Body Rating (ANSI): #900, ... #2500

## THERMOSTATIC

### T3 Series

Pres: 40 bar | Temp: 425 °C |  $0.2 \leq \Delta P \leq 17$  bar | Capacity: 150 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: A105, SS304, SS316 | Body Rating (ANSI): #150, #300

### SM Series

Pres: 63 bar | Temp: 425 °C |  $0.5 \leq \Delta P \leq 45$  bar | Capacity: 3,000 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: A105, SS304, SS316 | Body Rating (ANSI): #150, #300

### BK Series

Pres: 200 bar | Temp: 540 °C |  $8 \leq \Delta P \leq 250$  bar | Capacity: 1,000 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: F11, F12, F22, A105, SS304, SS316 | Body Rating (ANSI): #600, ... #2500

### HCF Series (High capacity & High Presser)

Pres: 160 bar | Temp: 550 °C |  $1 \leq \Delta P \leq 105$  bar | Capacity: 70,000 kg/H | Size: 1, ... 4 in  
Body Materials: F11, F12, A105, SS304, SS316 | Body Rating (ANSI): #600, ... #1500

## BALL FLOAT

### FT / FTD Series

Pres: 100 bar | Temp: 425 °C |  $0.1 \leq \Delta P \leq 32$  bar | Capacity: 40,000 kg/h  
Size: 1/2, 3/4, 1, 2, 3 in | Body Materials: A216, A105, A351, SS304, SS316, CAST IRON  
Body Rating (ANSI): #150, #300, #600

### UNT Series

Pres: 160 bar | Temp: 525 °C |  $2 \leq \Delta P \leq 140$  bar | Capacity: 8,000 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: F11, F12, F22, A105, SS304, SS316 | Body Rating (ANSI): #300, ... #1500

### SWT Series

Pres: 14 bar | Temp: 300°C |  $0.1 \leq \Delta P \leq 8$  bar | Capacity: 180,000 kg/h | Size: 2, 3, ... 8 in  
Body Materials: A516, A105, SS304, SS316 | Body Rating (ANSI): #150, #300

### HCF Series (High Capacity & High Pressure)

Pres.: 50 bar | Temp: 425°C |  $0.5 \leq \Delta P \leq 46$  bar | Capacity: 180,000 kg/h | Size: 2, 3, 4 in  
Body Materials: F11, F12, F22, A105, SS304, SS316 | Body Rating (ANSI): #600

## AIR TRAP

### AT/ATS Series (Ball Float)

Pres: 40 bar | Temp: 300°C |  $0.1 \leq \Delta P \leq 32$  bar | Capacity: 25,000 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: A216, A105, A351, SS304, SS316, CAST IRON | Body Rating (ANSI): #150, #300

## FREE FLOAT

### JT Series

Pres: 46 bar | Temp: 425 °C |  $0.1 \leq \Delta P \leq 32$  bar | Capacity: 1,000 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: A216, A105, A351, SS304, SS316, CAST IRON | Body Rating (ANSI): #150, #300

## INVERT BUCKET

### IBV Series

Pres: 51 bar | Temp: 425 °C |  $0.5 \leq \Delta P \leq 40$  bar | Capacity: 800 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: A216, A105, SS304, SS316 | Body Rating (ANSI): #150, #300

## VENTURI

### VT Series

Pres: 120 bar | Temp: 525 °C |  $0.1 \leq \Delta P \leq 100$  bar | Capacity: 12,000 kg/h | Size: 1/2, 3/4, 1 in  
Body Materials: F11, F12, F22, A105, SS304, SS316, A743 | Body Rating (ANSI): #150, ... #600

