VMV®
Make Security Eternal

NEWTON Fluid Technology CO., LTD

Inverted Bucket Steam Trap

Pilot-inverted Bucket SteamTrap

Ball Float Steam Trap

Thermodynamic Steam Trap

Thermostatic(bimetallic) Steam Trap

Thermostatic(film box) SteamTrap

STEAM TRAP

Thermostatic(bimetallic) Steam Trap

VMV Newton has become a well-known high-end brand manufacturer and end-user service provider in the field of steam and thermal energy engineering systems.

Secure System Generates
Smart Energy Conservation

www.steamvalves.com

Thermostatic (bimetal) Steam Trap

Thermostatic (bimetal) Steam Trap are characterized by large subcooling, long life, good energy-saving effect, water hammer resistance, and beautiful appearance. They are widely used in heating and steam transporta - tion pipelines.

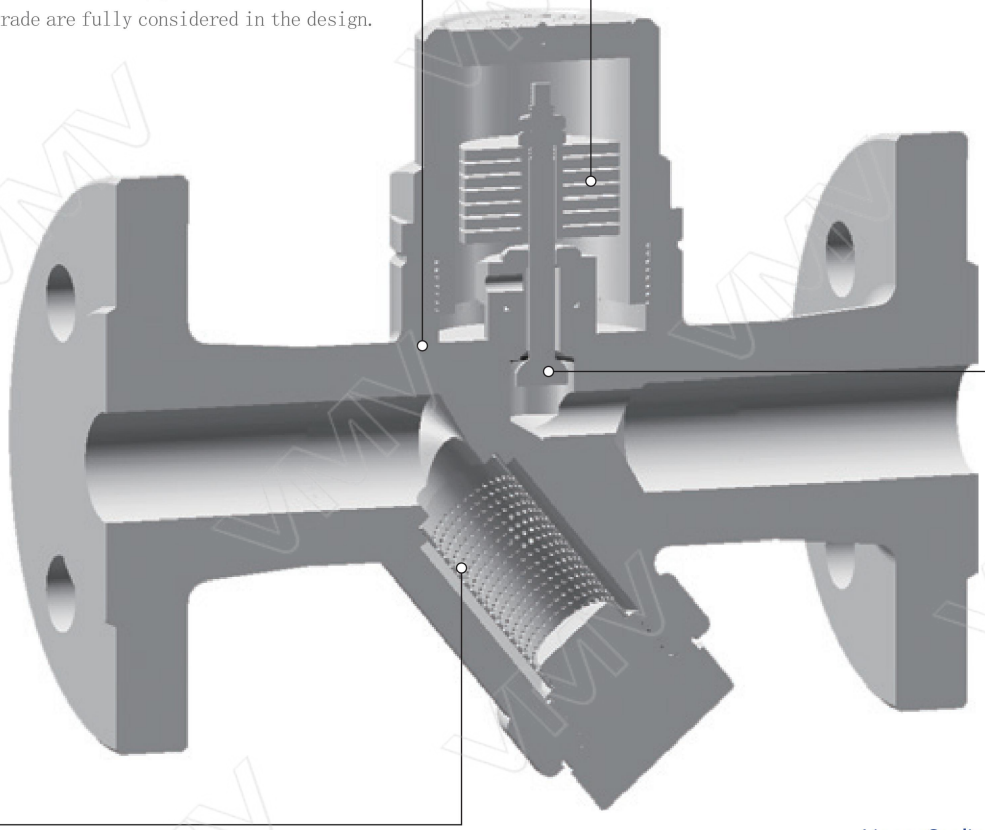
The technical advantages of VMV traps are: unique and reasonable structure and high-precision internals!

Imported Bimetal

U.S. imported bimetallic sheet to ensure specific bending value, adjustable temperature structure, precise temperature control.

High Strength Corrosion Resistance

Using A105 material, the corrosion allowance, minimum shell wall thickness, pressure and temperature grade are fully considered in the design.



Built-in Filtering Device

Effectively prevent pipeline impurities from entering the valve, ensure the normal operation of the trap, and prevent water hammer from damaging internal components.

Linear Sealing Closure System

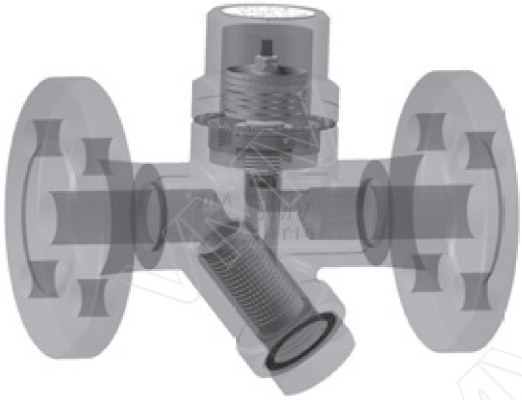
Unique linear sealing closing system and micron-level high-precision valve seat and valve core ensure reliable closing and o steam leakage.

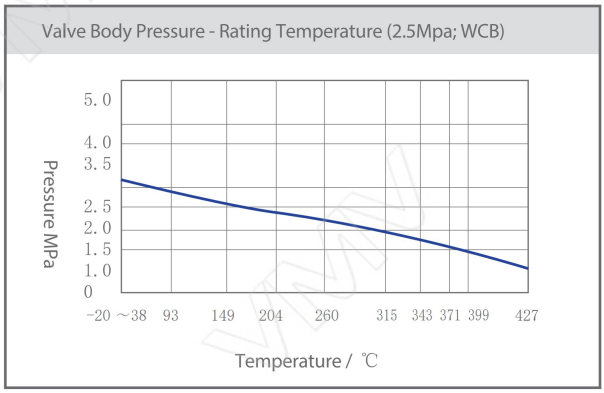
Structural Features

VMV thermostatic (bimetal) Steam Trap body and bonnet are made of A105, and the condensate discharge temperature can be adjusted. It has been adjusted to 120-130C when leaving the factory.

Thermostatic (bimetal) Steam Trap adopts a line-sealed shut-off system without original steam leakage, noise, good air discharge ability, fully utilizes the sensible heat of condensate water, and has a good energy-saving effect.

Thermostatic (bimetal) Steam Trap works on the temperature difference between steam and condensate. When the condensed water in the pipeline stays in the pipeline due to the high temperature, the temperature of the energy to be released will decrease when the bimetal deforms and the valve seat opens to discharge the condensed water. Users can adjust the discharge temperature of the trap at any time according to the season.





The material of the valve body and bonnet of the bimetal steam trap is ASTM A105, the bimetal is imported materials, the rest of the internal parts are stainless steel, and with built-in filtering device.

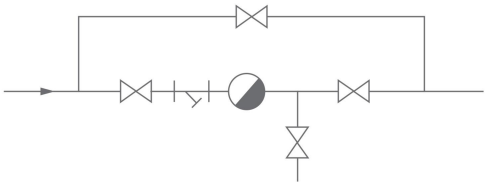
- Nominal pressure: PN25/PN40;
- Maximum allowable temperature: 400° C;
- Maximum working pressure: 1.6/3.2MPa;
- Maximum working temperature: 400/375 C;
- Connection method: threaded RC or flange

(GB/T9115.1—2000; HG/T20615-2009; HG/T20592-2009, etc.)

Selection and Installation of Bimetal Steam Trap

The bimetallic trap continuously drains water. Normally, the discharge temperature of SHT16 is 120-130 ℃, and the discharge temperature of SHT32 is 140-150 ℃ (users can adjust it). If there is any requirement for supercooling, please indicate when ordering. The back pressure rate of the bimetal trap can reach 50% (back-end pipeline pressure/steam pressure), which is not suitable for closed recovery systems, but is suitable for pipelines and heating systems to remove condensate. In general, the safety factor is 2-3 times.

Warm reminder: The condensed water volume and pressure difference of steam equipment are important indicators for type selection. The displacement of the same type of trap increases as the pressure difference increases. Please check the displacement curve in detail. Please don't mistake it for a large-diameter trap with a large displacement.



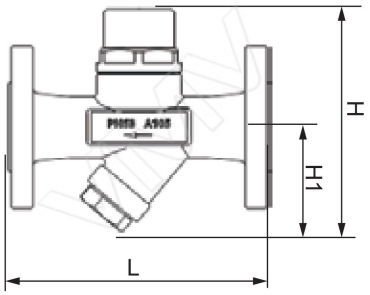
The bimetal trap can be installed at any position in the pipeline or equipment. The basic configuration of the trap is shown in the figure above.

SHT16/32

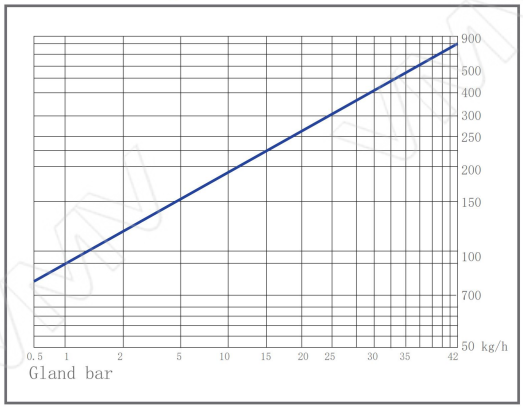
Thermostatic (bimetal) Steam Trap

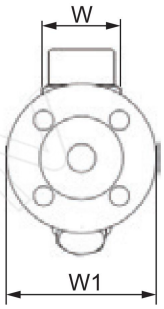
Structural features

1. The working principle of the the bimetal steam trap is dependent on the tempera - ture difference between vapor and liquid.
2. The valve body and bonnet are made of 304 material.
3. The disc and valve seat are made of special stainless steel. Through heat treatment, the disc hardness is as high as HRC55, which improves the service life of the trap.
4. Imported bimetallic sheet to ensure precise temperature control.
5. The closing system adopts high-preci- sion plane sealing structure.
6. Built-in filter makes the trap work in a clean environment.
7. The back pressure rate is as high as 50% or more.



SHT16/32 Displacement Curve





Applications

1. The steam transmission pipeline guide.
2. Small heat exchanger and kettle.
3. Heating system.
4. The small coil is heated by air.

Material

Cap	A105
Valve Body	A105
Seat	Stainless Steel
Disc	Stainless Steel
Other Internals	Stainless Steel

Data Size Table

Type	Conn	DN	PN	Working Pressure MPa	Temperature°C Pressure MPa	Diameter (mm)				U.W Kg
						L	H	H1	W	
SHT 16/32T	Thread	15-25	63	0.05-3.2	400/1.57	90	145	68	55	1.8
SHT 16/32W	SW	15-25	63	0.05-3.2	400/1.57	90	145	68	55	1.8
SHT 16/32F	RF	15-25	63	0.05-3.2	400/1.57	150	145	68	55	4

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Secure System Generates Smart Energy Conservation

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