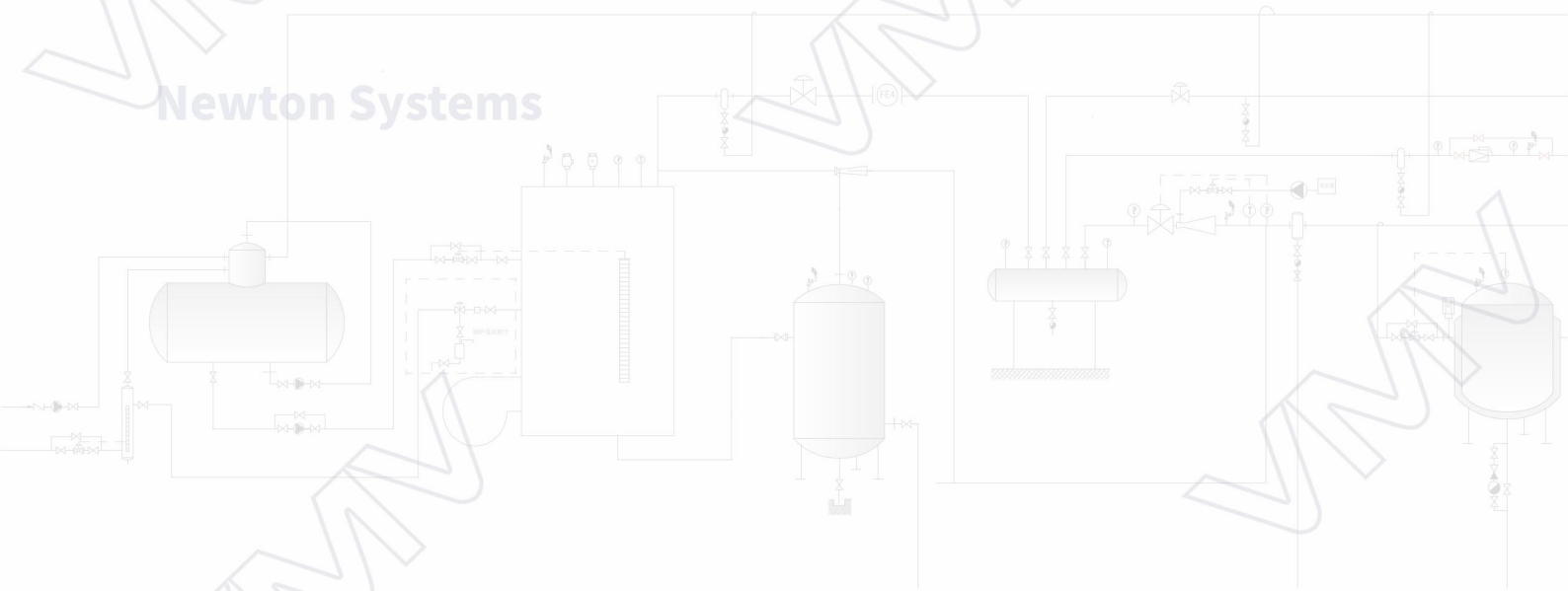


## Newton Systems



## STEAM TRAP SERIES

Pilot Inverted Bucket Steam  
Trap SBT50

# Pilot Inverted Bucket Steam Trap

Pilot Inverted Bucket Steam Trap **SBT50**



## Working Principle

- Based on the differential density of steam and liquid.
- the main valve is guided to open through the pilot valve, and the capacity is large.

## Features

- The valve body and valve cover are all made of forged steel/cast steel.
- Internal parts are all made of stainless steel and added with anti-wear allowance, extend trap life.
- U-shaped flow channel design, to achieve water sealing effect, no leakage of steam.
- Reliable flexible closure system with patented technology, no steam leakage.
- Install anti-water hammer device.
- Built-in check valve, suitable for superheated steam environment.
- Built-in filter allows the steam trap to work in a clean environment.
- Select different capacity curves according to the pressure difference to increase the capacity
- The back pressure rate is as high as 90% or more.
- After the steam is stopped, the condensed water can be removed by opening the screw plug to prevent damage to the steam trap due to low temperature freezing.

## Technical Standard

- GB/T12250-2005 Steam Trap Terminology Marking Structure Length
  - GB/T22654-2008 Technical Conditions for Steam Trap
  - GB/T12251-2005 Test Methods for Steam Trap
  - ISO 6948 Automatic steam trap
- Production and performance characteristic tests

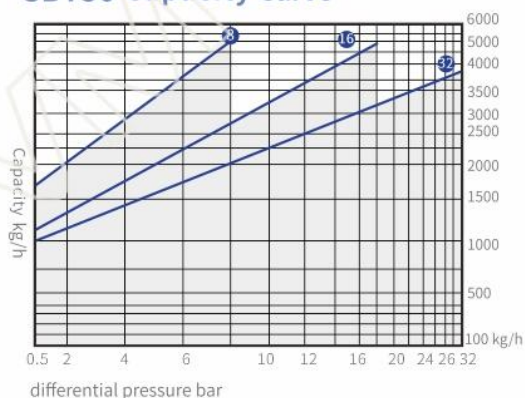
## Technical parameter

Nominal pressure	PN40
Max. allowable pressure (Shell)	3.92MPa/200°C
Max. allowable temperature (Shell)	450°C/1.66MPa
Factory steam action test	>3 times/1.6MPa
Max. operating pressure	3.2MPa
Max. operating temperature	350°C
Factory cold test pressure	6.0MPa
Air test	2.0MPa

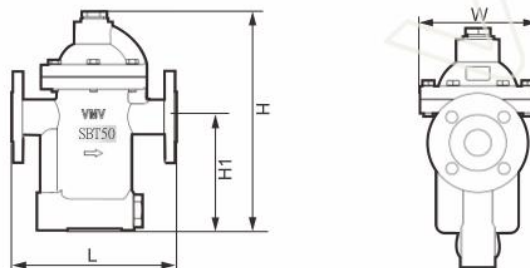
## Material List

Bonnet : WCB/CF8/CF8M      Disc: 440C+304  
 Body : WCB/CF8/CF8M      Other internal parts: 304  
 Seat : 420

## SBT50 Capacity Curve



## Structure Diagram



## Dimension Table

Unit(mm)					
Model	Size	L	H	H1	W
SBT50W	DN25-32	260	410	210	220
SBT50F	DN25-50	320	410	210	220

Unit(mm)

Weight

27.5Kg

33Kg



**VMV** Newton Systems®

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