

## Newton Systems



## STEAM TRAP SERIES

Pump PT10



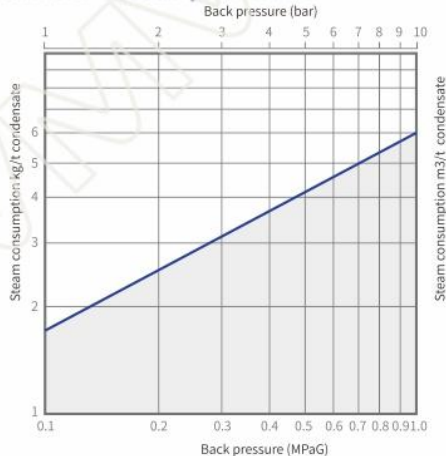
## Application.

Compact pump trap, suitable for condensate discharge or recovery, with a wide range of applications. It is used to discharge low flow condensate water in low level storage tanks.

## Main Parts Material List

|                 |                           |                   |                      |
|-----------------|---------------------------|-------------------|----------------------|
| Body/<br>Bonnet | WCB /<br>QT450            | Ball              | 304                  |
| Seat            | 420                       | Control frame     | 304                  |
| Disc            | 440C                      | Bolt              | B7/2H                |
| Spring          | Nickel-base<br>superalloy | Sealing<br>gasket | Flexible<br>graphite |

## Steam&Air Consumption Curve



## Product Features

1. There will be no cavitation when discharging high-temperature condensed water.
2. No need for electric drive or installation of liquid level control devices, safer to use.
3. Low head operation (minimum 300mm).
4. Online replacement of internal components makes cleaning very simple and reduces maintenance costs.
5. High quality stainless steel internals and hardened working surfaces ensure the reliable operation of the pump.
6. Compact structural design minimizes installation space.

## Installation precautions

Check valves must be installed at the inlet and outlet of the pump type drain valve.

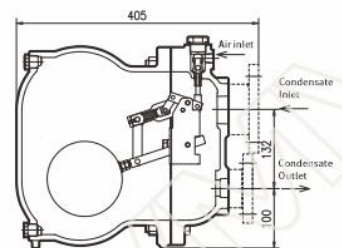
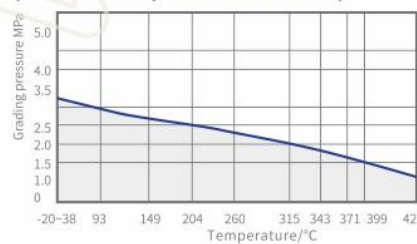
Choose different connection methods based on the interface format.

The pressure of the power medium minus the back pressure must be greater than 0.05MPa.

If a closed recovery system is used, the power medium used must be consistent with the fluid

being pumped. When using non condensable gases such as air and nitrogen as power media, please communicate and confirm with us.

## Valve shell pressure temperature rating (PN2.5MPa; WCB material)



## Technical Parameter

|                                 |                  |
|---------------------------------|------------------|
| Nominal pressure                | PN16(150Lb)      |
| Max. allowable pressure         | 1.6MPa/204°C     |
| Max. operating pressure         | 1.05MPa          |
| Max. power steam inlet pressure | 1.05MPa          |
| Valve body design pressure      | 2.5MPa           |
| Max. allowable temperature      | 300°C /1.23MPa   |
| Max. Working temperature        | 250°C /1.37MPa   |
| Water Inlet diameter            | DN40RF DN25RF/RC |
| Water Outlet diameter           | DN25RF/RC        |
| Exhaust port diameter           | DN20 RC          |
| Air intake diameter             | DN15 RC          |



**VMV** Newton Systems®

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