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VMV®

Newton Systems



# STEAM TRAP SERIES

Vacuum Breaker

# Vacuum Breaker



## Technical Parameter

| | | | |
|---|---|---|---|
| **Working medium** | Steam, Air | **Max. allowable temperature** | 425 °C |
| **Nominal pressure** | 2.5MPa | **Max. air intake** | 9m3/h |
| **Max.working pressure** | 2. 1MPa | **Noload leak rate** | 0.1% |
| **Max.pressure** | 0.01MPa | **Connection method** | RC |

## Application

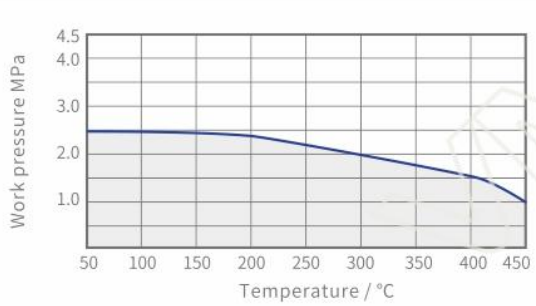
This product is robust and reliable and can be used in a variety of systems and equipment to prevent vacuum, such as:

- Heat Exchanger
- Steam Storage Tank
- Boiler
- Jacketed pot
- Sterilization room
- Steam main line

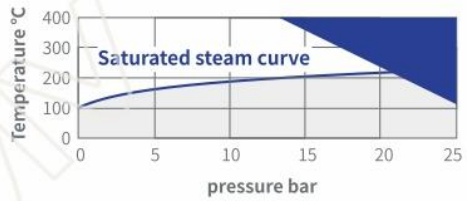
## Advantage

- Protects expensive equipment from vacuum damage
- Small size and sensitive action
- Simple, robust and reliable design
- VMV's domestic expert team technology, knowledge and service guarantee

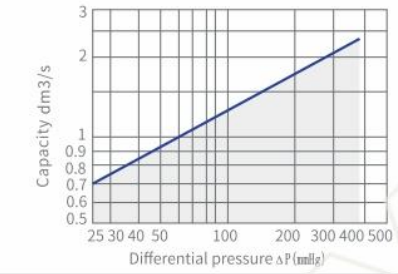
304 material PN25 Body Pressure-Temperature Ratings




Work scope

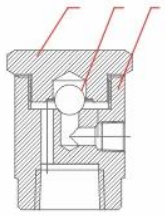


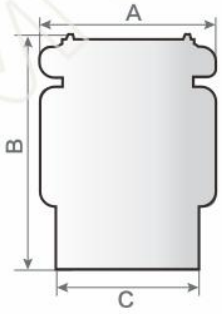

Flow chart




## Material of main parts

| Number | Name | Material |
|---|---|---|
| 1 | Bonnert | SS304 |
| 2 | Valve core | SS440C |
| 3 | Valve body | SS304 |



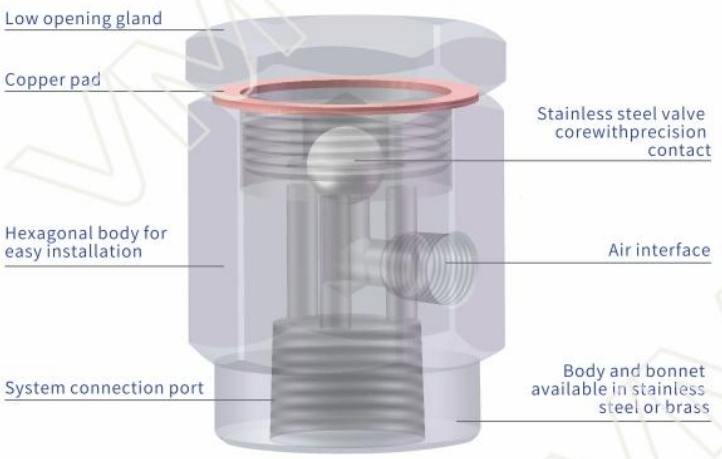



## Size Parameters

| Model | Connection Method | Nominal Size | Nominal Pressure | External Dimensions mm A | B | C | Weight Kg |
|---|---|---|---|---|---|---|---|
| VB21 | thread | 1/2" | PN25 | 40 | 54 | 35 | 0.38 |
| VB21 | thread | 3/4" | PN25 | 52 | 65 | 46 | 0.7 |

# Vacuum Breaker

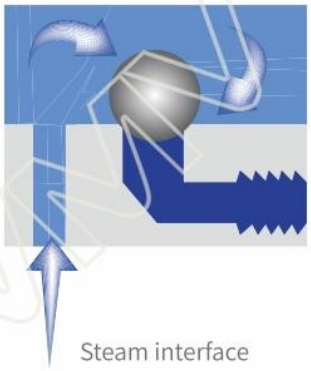
VMV vacuum breaker protect your equipment from vacuum damage while helping to efficiently drain condensate from lines and containers.





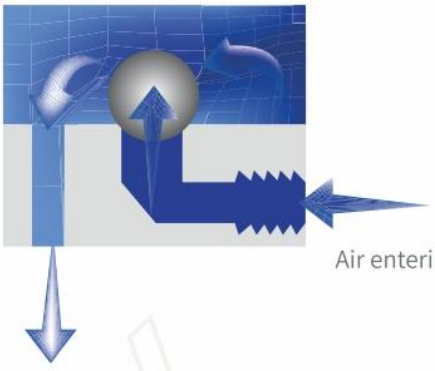
## working principle

### when working fine




The high and precision valve core valve seat adopts a linear seal. When the pipeline is under pressure, the valve seat and valve core is tightly closed, and there is no steam leakage.

### when a vacuum occurs




When the pressure of the steam system drops to normal pressure, the steam in the equipment cools down, and the valve core opens when a negative pressure is generated and a vacuum state occurs.

※The differential pressure at which the valve opens is 4.6mmHg

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