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Newton Systems

STEAM TRAP SERIES

Thermodynamic (Disc) Steam Trap STD16

Thermodynamic (Disc) Steam Trap

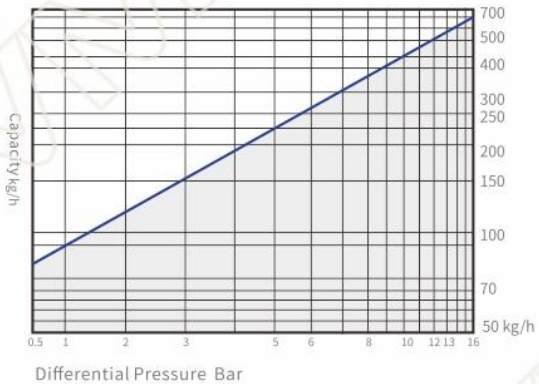
Technical Parameter

Nominal pressure	PN25
Max. allowable pressure (Shell)	2.45MPa/200°C
Max. allowable temperature (Shell)	450°C/1.03MPa
Factory steam action test	>3 times/1.6MPa
Max. operating pressure	1.6MPa
Max. operating temperature	350°C
Factory cold test pressure	3.8MPa
Air test	2.0MPa

Material List

Bonnet: A105/F304/F316
Body: A105/F304/F316
Seat: 440C
Disc: 440C
Other internal parts: 304

STD16 Capacity Curve



Working Principle

- Depends on the difference of steam and liquid flow rate
- Exclude saturated condensate

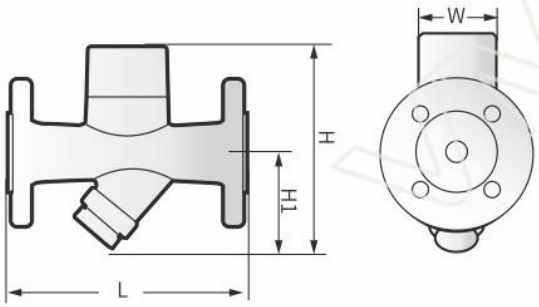
Features

•The valve body and valve bonnet are all made of forged steel.
•The valve disc and valve seat are made of martensitic stainless steel. After heat treatment and aging treatment, they are not denatured and wear-resistant under high temperature and high pressure, which improves the service life of the trap.
•Stainless steel insulation cover to isolate and slow down heat loss and eliminate invalid actions.
• The fluid channel of the internal structure is designed strictly according to Bernoulli's equation, and the structure is reasonable.
• Built-in filter makes the trap work in a clean environment.
• The back pressure rate is as high as 80% or more.
• To exclude low temperature traps with large subcooling degree, it needs to be customized.

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

Structure Diagram



Structural Dimension Table

unit (mm)

Model	Size	L	H	H1	W	Weight
STD16T	DN15-25	90	120	68	48	1/1.5Kg
STD16W	DN15-25	90	120	68	48	1/1.5Kg
STD16F	DN15-25	150	120	68	48	2.5-3Kg

•Suitable for drainage of saturated or superheated steam pipelines.

VMV Newton Systems®

ZHEJIANG NEWTON FLUID CONTROL CO.,LTD.

Headquarters (Wenzhou)

Zhiyi road,Lingxia industrial zone,Wuniu,Wenzhou,
Zhejiang, China.
Tel: 86-577-67978269
Fax:86-577-67376711
E-mail: vmv@vmv-valve.com

Shanghai R&D Center

Jiading District, Shanghai
Building 12A, Chengbei Road
Tel: 86-18057752663
E-mail: vmv8@vmv-valve.com

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www.vmvvalve.com

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