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Newton Systems

STEAM TRAP SERIES

Thermodynamic (Disc) Steam Trap STD42

Thermodynamic (Disc) Steam Trap

STD42 Thermodynamic (Disc) Steam Trap

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 special stainless steel, which is heat treated And aging treatment, no deformation and wear resistance under high temperature and high pressure, improve the service life of the trap.
•Stainless steel insulation cover to isolate and slow down heat loss and prevent the trap from emptying up phenomenon.
• 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 Parameter

Nominal pressure	PN63
Max. allowable pressure (Shell)	6.27MPa/200°C
Max. allowable temperature (Shell)	450°C/2.6MPa
Factory steam action test	>3次/1.6MPa
Max. operating pressure	4.2MPa
Max. operating temperature	350°C
Factory cold test pressure	9.5MPa
Air test	2.0MPa

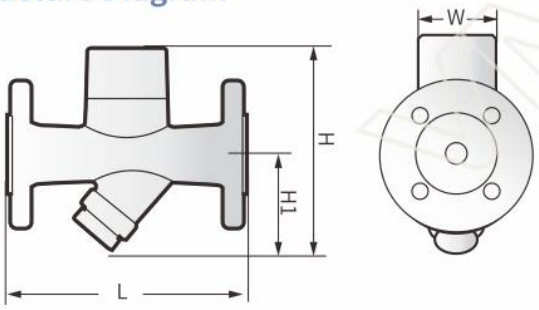
Technical Standard

•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

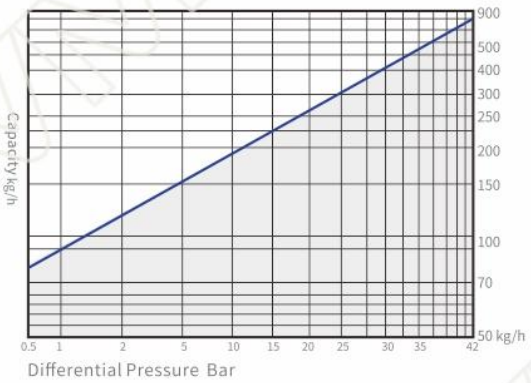
Material List

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

Structure Diagram



STD42 Capacity Curve



Structural Dimension Table

Unit(mm)

Model	Size	L	H	H1	W	Weight
STD42T	DN15-25	90	126	68	55	1.8 Kg
STD42W	DN15-25	90	126	68	55	1.8 Kg
STD42F	DN15-25	150	126	68	55	5.5Kg

•Suitable for saturated or superheated steam pipeline drainage

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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