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Newton Systems

STEAM TRAP SERIES

Thermodynamic (Disc) Steam Trap STD80

Thermodynamic (Disc) Steam Trap

Working Principle

Depends on the difference of steam and liquid flow rate.

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.

Technical Parameter

Nominal pressure	PN100
Max. allowable pressure (Shell)	9.8MPa/200°C
Max. allowable temperature (Shell)	450°C/7.29MPa
Factory steam action test	>3 times/1.6MPa
Max. operating pressure	8.0MPa
Max. operating temperature	420°C
Factory cold test pressure	15.0MPa
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: F11

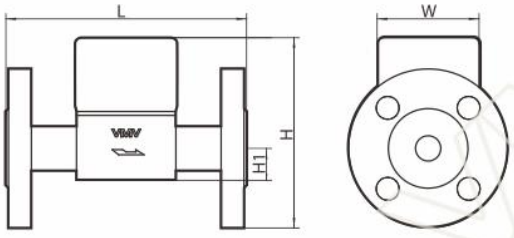
Body: F11

Seat: 440C

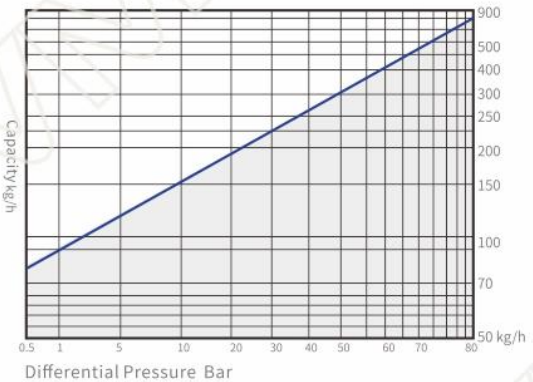
Disc: 440C

Other trims: 304

Structure Diagram



STD80 Capacity Curve



Structural Dimension Table

Unit(mm)

Model	Size	L	H	H1	W	Weight
STD80W	DN15-25	85	112	25	80	4.0Kg
STD80F	DN15-25	190	112	25	80	7.5Kg

•Suitable for saturated or superheated steam pipeline drainage.

VMV Newton Systems®

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