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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 12247-2015

Replacing GB/T 12247-1989

Automatic steam traps -- Classification

蒸汽疏水阀 分类

(English Translation)

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 12247-1989 "Steam Trap Classification".

This standard compared with GB/T 12247-1989, in addition to editorial changes, the main technical changes are as follows.

--- Added foreword;

- Removed open-up float steam traps, pulsed steam traps (see 3.1.2 and 3.3.2 of 1989);

--- Added single-seat lever float type, double seat lever float type, pilot piston type, inverted bucket differential pressure type and pump type steam trap Type (see Table 1);

--- modified the name of the closed float type, steam pressure type and so on (see Table 1 and Table 2, 1989 version 3.1.1 and 3.2.1).

This standard uses the re-drafting method to modify ISO 6704. 1982 "steam trap classification".

This standard complements the content in addition to ISO 6704. 1982. The main technical differences are as follows.

- the removal of the product type (see ISO 6704. 1982, version 4.1.1 and 4.3.2) for the removal of open-type float, pulsed steam traps, etc.

--- Added single-seat lever float type, double seat lever float type, pilot piston type, inverted bucket differential pressure type and pump type steam trap Type (see Table 1).

This standard is proposed by the China Machinery Industry Federation.

This standard by the National Valve Standardization Technical Committee (SAC/TC188) centralized.

This standard is responsible for drafting units. British Overseas Chinese Machinery Manufacturing Co., Ltd., Beijing Valve Factory (Group) Co., Ltd., Gansu Hongfeng Machinery Limited liability company.

This standard participates in the drafting unit. Fujian Boiler Pressure Vessel Inspection Research Institute, Wenzhou Zhongli Valve Co., Ltd., Hefei General Environment Control Co., Ltd., Lanzhou University of Technology Special Valve Research Institute.

1 Scope

This standard specifies the classification of steam traps.

This standard is applicable to the classification and operation of steam traps.

2 Terms and definitions

The following terms and definitions apply to this document.

Steam traps the use of medium temperature, liquid level, dynamic characteristics of the automatic removal of condensate, while preventing the steam leakage of the automatic control device.

3.1 Classification method

According to the working principle of open and close parts and action, steam traps can be divided into three categories. mechanical steam trap, hot static steam sparse Water valve, thermodynamic steam trap.

3.2 Mechanical steam traps

The mechanical steam trap opens and closes the valve through the change of the condensate level. The typical structure of the schematic and action principle in Table 1.

3.3 Thermostatic Steam Traps

The thermostatic steam trap opens and closes the valve through the change in the temperature of the condensate. The typical structure of the schematic and action principle in Table 2.

3.4 Thermodynamic steam traps

The thermodynamic steam trap opens and closes the valve through the change of the dynamic characteristics of the condensate. The typical structure of the schematic and

action principle see table 3.