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

CJ/T 393-2012

**Cock assembly for domestic gas appliance
(English Translation)**

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces CJ/T 3072-1998 Cock assembly for domestic gas appliance.

This Standard is the revision to CJ/T 3072-1998 Cock assembly for domestic gas appliance. Compared with CJ/T 3072-1998, the main technical differences are as follows.

- Added the maximum working pressure and nominal size applicable to this Standard (see 1);
- Added application range of temperature (see 5.6.1);
- Added requirements for gas connection (see 5.4 of this edition; 5.3.6 of

1998 edition);

- Modified classification method (see Clause 4 of this edition; Clause 4 of

1998 edition);

- Modified airtight pressure and leakage values (see 5.6.2 of this edition;

5.2.1 of 1998 edition);

- Modified flow test content (see 5.6.4 of this edition; 5.2.2 of 1998 edition);
- Modified requirements for operating characteristics (see 5.6.6 of this edition; 5.2.3 and 5.2.4 of 1998 edition);
- Modified requirements for additional functions (see 5.6.7 of this edition; 5.2.8~5.2.11 of 1998 edition);
- Deleted content of resistance to vibration (see 5.2.12 of 1998 edition);
- Deleted content about nozzle in structure (see 5.3.10~5.3.12 of 1998 edition).

This Standard uses redrafting method to modify and adopt EN 1106.2010 Manually operated taps for gas burning appliances.

Compared with EN 1106.2010, this Standard made more modifications in structure. Annex A listed out the comparison in serial number.

Considering Chinese national conditions, this Standard made some modifications to EN 1106.2010. Annex B gives out the technical changes and reasons for reference.

Cock assembly for domestic gas appliance

1 Scope

This Standard specifies terms and definitions, classification, requirements, test methods, inspection rules, marks and instructions for use, packaging, transport and storage of cock assembly for domestic gas appliance (hereafter abbreviated as cock assembly).

This Standard is applicable to cock assembly used for urban gas appliance

stipulated in GB/T 13611, of which the maximum working pressure is less than

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 191-2008 Packaging - Pictorial Marking for Handling of Goods (ISO 780.1997, MOD)

GB/T 3091 Welded Steel Tubes for Low Pressure Liquid Delivery

GB/T 7306 (All parts) Tube threads with 55 degree thread angle where pressure-tight joints are made on the threads (ISO 7-1.1994)

GB/T 7307 Food safety management system - Requirements for quick frozen fruits and vegetable product establishments (GB/T 7307-2001, eqv ISO 228-1.1994)

GB/T 8733 Aluminum alloy ingots for casting

GB/T 9114 Hubbed screwed steel tube flanges

GB/T 9144 General purpose metric screw threads - Preferable plan (GB/T 9114-2003, ISO 262.1998, MOD)

GB/T 13611 Classification and essential property of city gas

GB 14536.1-2008 Automatic electrical controls for household and similar use [IEC 60730-1.2003 (Ed3.1), IDT]

GB 15092.1 Switches for appliances - Part 1. General requirements

GB/T 15530 (All parts) Copper alloy welding neck flanges

GB 16470 Palletized unit loads

GB/T 16411-2008 Universal test methods of gas burning appliances for domestic use

GB/T 17241 (All parts) Hubbed threaded cast iron tube flanges

CJ 30 Thermocouple electromagnetic protector of extinguishment for gas

appliance

CJ/T 222-2006 Quality assessment procedures and test rules for gas-burning appliances for domestic use

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 cock assembly for domestic gas appliance

An integral control device which takes manual adjustable cock with off-function as main body, equipped with corresponding additional device in accordance with applicable special function requirements for domestic gas appliance.

Schematic diagrams of common components on cock assembly are shown in Figure 1 ~ Figure 3.

3.2 additional device

device that meets special function of domestic gas appliance, including piezoelectric igniter, micro switch, thermoelectric flameout protection device, mechanical thermostat, etc.

3.3 mechanical thermostat

a temperature control device of which the temperature is adjusted by temperature sensor so as to make temperature remained in specified range, including temperature-setting adjustable type and temperature-setting fixed type.

3.4 closure member

movable part to cut off gas flow in cock assembly.

4.1 Classify in accordance with number of operations

Classify according to predictable number of operations within period of use of gas appliance.

- 5000 times (e.g. cock assembly for outdoor gas appliance);