

ICS 23.040.60

CCS J15



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

GB/T 15530.1-2008

Replacing GB/T 15530.1-1995

Cast copper alloy integral flanges

铜合金整体铸造法兰

Issued on: August 25, 2008

Implemented on: April 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Type and size
- 3.2 Basic parameters

Foreword

GB/T 15530 "copper alloy and composite flanges" series of standards consists of the following eight components.

- GB/T 15530.1 whole cast copper alloy flanges;
- GB/T 15530.2 copper alloy welded flange;
- GB/T 15530.3 copper alloy plate flat welding flange;
- GB/T 15530.4 copper alloy with a neck flat welding flange;
- GB/T 15530.5 copper alloy flat steel welding Loose ring flange;
- GB/T 15530.6 hemming brass and copper alloy steel welding Loose ring flange;
- GB/T 15530.7 copper alloy flange cover;
- GB/T 15530.8 copper alloy and composite flanges technical conditions. This section GB/T 15530 Part 1. This part of GB/T 2505-1989 "Marine bronze flanged (four into bit)" and GB/T 15530.1-1995 "the whole cast copper alloy Flange "revision. This part of GB/T 2505-1989 and GB/T 15530.1-1995 main changes are as follows:
 - The original two standards into a single standard, the standard name has been modified;
 - Type flange sealing surface divided by type RF (raised face), TG type (tongue and groove) and FF-type (full flat);
 - Unified material grades, requirements;
 - According to GB/T 1.1-2000 "Standardization Guide Part 1. Standard structure and write rules," the requirements of the standard input Line rewritten. Since the implementation of this section instead of GB/T 2505-1989 and GB/T 15530.1-1995. This part is proposed by China Machinery Industry Federation. This part of the National Standardization Technical Committee pipe accessories. This section drafted by: China Shipbuilding Technology and Economy Research Institute, the machine Productivity Promotion Center, Hudong-Zhonghua Shipbuilding (Group) Limited. The main drafters of this section. Li

Junying, He Huiqiong, Luo Yuan hair, Mei-Ling Zhang, Geng Haiping, Feng Feng. This part of the standard replaces the previous editions are.

--- GB 2505-81, GB/T 2505-1989;

1 Scope

GB/T 15530.1-2008 is the Chinese national standard on cast copper alloy integral flanges, in the field of fluid systems and general-purpose components. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 25 August 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 April 2009.

Classification: ICS 23.040.60, CCS J15. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

GB/T 15530 provisions of this part of the whole cast copper alloy flanges (hereinafter referred to as flange) the type and size requirements. This section applies to no greater than nominal pressure PN40 and Class300, working temperature not higher than 260 °C for various types of valves and fittings usage Design and manufacture of blue.

2 Normative references

The following documents contain provisions which, through reference

GB/T 15530 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 1176-1987 Cast Copper Alloys conditions (neq ISO 1338. 1977)

GB/T 1184-1996 shape and position tolerances without individual tolerance value (eqv ISO 2768-2. 1989)

GB/T 1804-2000 General tolerances for linear and angular dimensions without individual tolerance tolerance (eqv ISO 2768-1. 1989)

GB/T 2501 Marine flange connection dimensions and sealing surface (four into position)

GB/T 15530.8 copper alloy and composite flanges technical conditions

3 Type and size

3.1 Press the flange sealing surface is divided into three basic types.

- a) raised face (RF type) the whole copper alloy casting flange;
- b) tongue and groove (TG type) the whole copper alloy casting flange;
- c) the whole plane (FF type) the whole copper alloy casting flange.

3.2 Basic parameters

3.2.1 PN series flanges Pressure - temperature rating shown in Table 1. Table 1 PN6 ~ PN40 flange pressure - temperature rating Types of Nominal PN Operating temperature/°C
 120a 200 250 Maximum working pressure/MPa Nominal size DN RF type TG type FF type
 Raised face, the whole plane Flange 6 0.6 0.5 1000 0.4 10 ~ 10 1.0 0.8 0.7 10 - 500 16 1.6
 1.3 1.1 10 - 500 25 2.5 2.0 1.7 10 - 500 10 ~ 1800 10 ~ 1200 10 to 500 10 to 500 The
 whole plane, Tongue and groove flange 40 4.0 3.2 2.7 - 10 - 10 010 - 500 a more than
 nominal size DN250 PN6, PN10, PN16, PN25, PN40 of TG type, FF Flange maximum
 temperature no higher than 120 °C.