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

GB/T 15530-1995

Replacing GB/T 15530.1-1995; GB/T 2505-1989

**Cast copper alloy integral flanges
(English Translation)**

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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.

1 Scope

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 (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

Type 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

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.