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(JISF)

**Manganese-molybdenum and  
manganese-molybdenum-nickel  
alloy steel plates quenched and  
tempered for pressure vessels**

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In the event of any doubts arising as to the contents,  
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## Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Iron and Steel Federation (JISF) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS G 3120:2014** is replaced with this Standard.

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# Manganese-molybdenum and manganese-molybdenum-nickel alloy steel plates quenched and tempered for pressure vessels

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 9328-1:2011**, Edition 3, and **ISO 9328-2:2011**, Edition 3, with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

## 1 Scope

This Standard specifies quenched and tempered manganese-molybdenum and manganese-molybdenum-nickel alloy steel plates (hereafter referred to as steel plates) to be used for nuclear reactors and other pressure vessels.

**NOTE** The International Standards corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 9328-1:2011 *Steel flat products for pressure purposes—Technical delivery conditions—Part 1: General requirements*

ISO 9328-2:2011 *Steel flat products for pressure purposes—Technical delivery conditions—Part 2: Ferritic alloy and alloy steels with specified elevated temperature properties* (overall evaluation: MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 2-1**.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 0320 *Standard test method for heat analysis of steel products*

JIS G 0321 *Product analysis and its tolerance for wrought steel*

JIS G 0404 *Steel and steel products—General technical delivery requirements*

JIS G 0415 *Steel and steel products—Inspection documents*

JIS G 3193 *Dimensions, mass and permissible variations of hot rolled steel plates, sheets and strips*

JIS Z 2241 *Metallic materials—Tensile testing—Method of test at room temperature*