JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 8301 : 2018

(JSIM/JSA)

Rotodynamic pumps—Hydraulic performance acceptance tests—Grades 1, 2 and 3

ICS 23.080

Reference number : **JIS B 8301** : **2018** (**E**)

Date of Establishment: 1952-08-25
Date of Revision: 2018-08-20
Date of Public Notice in Official Gazette: 2018-08-20
Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area

JIS B 8301:2018, First English edition published in 2019-04

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

Printed in Japan

TK/AT

Contents

Page

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 Society of Industrial Machinery Manufacturers (JSIM)/Japanese Standards Association (JSA) 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 B 8301**:2000 is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

Rotodynamic pumps—Hydraulic performance acceptance tests—Grades 1, 2 and 3

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 9906**:2012, Edition 2, with some additions and modifications made to reflect the conventions of business transactions conducted in Japan.

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 JH. Annexes JA to JG provide unique contents to **JIS** that are not given in the corresponding International Standard.

1 Scope

This Standard specifies performance acceptance tests for centrifugal, mixed flow and axial pumps (hereafter all referred to as pumps) that are conducted for delivery inspection. It can be applied to any size and to any pumped liquids which behave as clean, cold water (see **5.7.1A**). It does not cover structural requirements or requirements regarding mechanical characteristics of the pump.

This Standard specifies three levels of acceptance, grade 1, grade 2, and grade 3, which are further classified into the following: grades 1B, 1E and 1U with tighter tolerance; grades 2B and 2U with broader tolerance; and grade 3B with even broader tolerance.

Apart from above, there are acceptance grades with other sets of tolerances intended for pumps with a power input of below 10 kW, and acceptance grade 3J (see Annex JA), which is applicable to pumps without reduction of impeller diameter.

This Standard applies either to a pump itself without any fittings or to a combination of a pump associated with all or part of its upstream and/or downstream fittings.

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

ISO 9906:2012 *Rotodynamic pumps—Hydraulic performance acceptance tests—Grades 1, 2 and 3* (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 21-1**.

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.