

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS H 3401 : 2001

(JCDA/JSA)

**Pipe fittings of copper
and copper alloys**

ICS 23.040.40; 77.120.30

Descriptors : copper, copper alloys, pipe couplings

Reference number : JIS H 3401 : 2001 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard 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 Copper Development Association (JCDA)/the Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. Consequently **JIS H 3401 : 1997** is replaced with this Standard.

This revision applies hydrostatic pressure test and effect to water quality test according to **JIS S 3200** not only for water supply service but also for all the pipe fittings specified.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Date of Establishment: 1979-06-01

Date of Revision: 2001-03-20

Date of Public Notice in Official Gazette: 2001-03-21

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Non-Ferrous Metals

JIS H 3401 : 2001, Second English edition published in 2003-09

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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

© JSA 2002

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

Pipe fittings of copper and copper alloys

Introduction This Japanese Industrial Standard is formed by annexing **ISO 2016** : 1981 *Capillary solder fittings for copper tubes—Assembly dimensions and tests*, **ISO 274** : 1975 *Copper tubes of circular section—Dimensions*, **ISO 1337** : 1980 *Wrought coppers (having minimum copper contents of 99.85 %)—Chemical composition and forms of wrought products*, **ISO 426-1** : 1983 *Wrought copper-zinc alloys—Chemical composition and forms of wrought products—Part 1 : Non-lead and special copper-zinc alloys* to the original **JIS H 3401**.

1 Scope This Standard specifies the copper and copper alloy pipe fittings to be inserted in the piping copper tubes and water supply copper tubes specified in **JIS H 3300** and the plastic covered copper tubes specified in **JIS H 3330** and capillary brazed or soldered (hereafter referred to as “pipe fittings”).

Remarks : The following standard is the corresponding International Standard to this Standard.

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**.

ISO 2016 : 1981 *Capillary solder fittings for copper tubes—Assembly dimensions and tests* (MOD)

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

JIS H 0321 *General rules for inspection of non-ferrous metal materials*

JIS H 3300 *Copper and copper alloy seamless pipes and tubes*

JIS H 3330 *Plastic covered copper tubes*

JIS S 3200-1 *Equipment to water supply service—Test methods of hydrostatic pressure*

JIS S 3200-7 *Equipment for water supply service—Test methods of effect to water quality*

3 Definitions For the purposes of this Standard the following definitions apply:

- a) **T (tee)** The piping joint fitting of three-way branched form.
- b) **elbow** The piping joint fitting of L form.

4 Types and symbols The pipe fittings shall be classified into two types according to the dimensions and tolerances of the jointing part, and their types and symbols shall be as given in Table 1.