



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 8474-1 : 2010

(JAC/JSA)

**Water pipe motor valve—Part 1: Ball valve
for industry**

ICS 23.060.20

Reference number : JIS B 8474-1 : 2010 (E)

PROTECTED BY COPYRIGHT

 **Documents**
Document Sharing Hub
8 S

Date of Establishment: 2010-09-21

Date of Public Notice in Official Gazette: 2010-09-21

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Industrial Machinery

JIS B 8474-1 : 2010, First English edition published in 2011-02

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 2011

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

NH/SW

PROTECTED BY COPYRIGHT

Contents

Page

1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Types	2
5	Performance	3
6	Structure	4
7	Appearance	5
8	Material	6
9	Test methods	6
9.1	Actuation test	6
9.2	Internal leakage test	6
9.3	Withstand pressure test	6
9.4	Insulation resistance test	7
9.5	Withstand voltage test	7
9.6	Flow characteristics test	7
9.7	Durability test	7
9.8	High temperature standing test	7
9.9	Low temperature standing test	7
9.10	Electromagnetic compatibility (EMC) emission test	8
9.11	Electromagnetic compatibility (EMC) immunity test	8
10	Method of inspection	8
10.1	Type inspection	8
10.2	Delivery inspection	8
11	Packaging	9
12	Marking	9

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Automatic Controls Industrial Association (JAC)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This JIS document is protected by the Copyright Law.

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.

Water pipe motor valve— Part 1: Ball valve for industry

1 Scope

This Japanese Industrial Standard specifies the ball valve for industry (hereafter referred to as "valve") among the water pipe motor valves used for the pipe line. This Standard shall apply to the following range of valves; however, not apply to the motorized water valves designed for domestic use.

- a) The range of actuating pressure difference is 0 MPa to 2.5 MPa.
- b) The maximum permissible pressure is 2.5 MPa or under.
- c) The ambient temperature is $-20\text{ }^{\circ}\text{C}$ to $50\text{ }^{\circ}\text{C}$, provided that water shall not freeze.
- d) The temperature of water shall be between $5\text{ }^{\circ}\text{C}$ to $90\text{ }^{\circ}\text{C}$.

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 B 0100 *Glossary of terms for valves*

JIS B 0202 *Parallel pipe threads*

JIS B 0203 *Taper pipe threads*

JIS B 2005-1 *Industrial-process control valves—Part 1: Control valve terminology and general considerations*

JIS B 2005-2-1 *Industrial-process control valves—Part 2-1: Flow capacity—Sizing equations for fluid flow under installed conditions*

JIS B 2005-2-3 *Industrial-process control valves—Part 2-3: Flow capacity—Test procedures*

JIS C 1302 *Insulation resistance testers*

JIS C 61000-3-2 *Electromagnetic compatibility (EMC)—Part 3-2: Limits—Limits for harmonic current emissions (equipment input current $\leq 20\text{ A}$ per phase)*

JIS C 61000-4-2 *Electromagnetic compatibility (EMC)—Part 4: Testing and measurement techniques—Section 2: Electrostatic discharge immunity test*

JIS C 61000-4-3 *Electromagnetic compatibility (EMC)—Part 4-3: Testing and measurement techniques—Radiated, radio-frequency, electromagnetic field immunity test*