



**ASME A112.18.6-2009/  
CSA B125.6-09**

## **Flexible water connectors**



# Legal Notice for Harmonized Standard Jointly Developed by ASME and CSA

## Intellectual property rights and ownership

As between The American Society of Mechanical Engineers ("ASME") and Canadian Standards Association ("CSA") (collectively "ASME and CSA") and the users of this document (whether it be in printed or electronic form), ASME and CSA are the joint owners of all works contained herein that are protected by copyright, all trade-marks (except as otherwise noted to the contrary), and all inventions and trade secrets that may be contained in this document, whether or not such inventions and trade secrets are protected by patents and applications for patents. The unauthorized use, modification, copying, or disclosure of this document may violate laws that protect the intellectual property of ASME and CSA and may give rise to a right in ASME and CSA to seek legal redress for such use, modification, copying, or disclosure. ASME and CSA reserve all intellectual property rights in this document.

## Disclaimer and exclusion of liability

This document is provided without any representations, warranties, or conditions of any kind, express or implied, including, without limitation, implied warranties or conditions concerning this document's fitness for a particular purpose or use, its merchantability, or its non-infringement of any third party's intellectual property rights. ASME and CSA do not warrant the accuracy, completeness, or currency of any of the information published in this document. ASME and CSA make no representations or warranties regarding this document's compliance with any applicable statute, rule, or regulation.

IN NO EVENT SHALL ASME AND CSA, THEIR RESPECTIVE VOLUNTEERS, MEMBERS, SUBSIDIARIES, OR AFFILIATED COMPANIES, OR THEIR EMPLOYEES, DIRECTORS, OR OFFICERS, BE LIABLE FOR ANY DIRECT, INDIRECT, OR INCIDENTAL DAMAGES, INJURY, LOSS, COSTS, OR EXPENSES, HOWSOEVER CAUSED, INCLUDING BUT NOT LIMITED TO SPECIAL OR CONSEQUENTIAL DAMAGES, LOST REVENUE, BUSINESS INTERRUPTION, LOST OR DAMAGED DATA, OR ANY OTHER COMMERCIAL OR ECONOMIC LOSS, WHETHER BASED IN CONTRACT, TORT (INCLUDING NEGLIGENCE), OR ANY OTHER THEORY OF LIABILITY, ARISING OUT OF OR RESULTING FROM ACCESS TO OR POSSESSION OR USE OF THIS DOCUMENT, EVEN IF ASME OR CSA HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, INJURY, LOSS, COSTS, OR EXPENSES.

In publishing and making this document available, ASME and CSA are not undertaking to render professional or other services for or on behalf of any person or entity or to perform any duty owed by any person or entity to another person or entity. The information in this document is directed to those who have the appropriate degree of experience to use and apply its contents, and ASME and CSA accept no responsibility whatsoever arising in any way from any and all use or reliance on the information contained in this document.

ASME and CSA have no power, nor do they undertake, to enforce compliance with the contents of the standards or other documents they jointly publish.

## Authorized use of this document

This document is being provided by ASME and CSA for informational and non-commercial use only. The user of this document is authorized to do only the following:

If this document is in electronic form:

- load this document onto a computer for the sole purpose of reviewing it;
- search and browse this document; and
- print this document if it is in PDF format.

Limited copies of this document in print or paper form may be distributed only to persons who are authorized by ASME and CSA to have such copies, and only if this Legal Notice appears on each such copy.

In addition, users may not and may not permit others to

- alter this document in any way or remove this Legal Notice from the attached standard;
- sell this document without authorization from ASME and CSA; or
- make an electronic copy of this document.

If you do not agree with any of the terms and conditions contained in this Legal Notice, you may not load or use this document or make any copies of the contents hereof, and if you do make such copies, you are required to destroy them immediately. Use of this document constitutes your acceptance of the terms and conditions of this Legal Notice.



# ***CSA Standards Update Service***

***ASME A112.18.6-2009/CSA B125.6-09***  
***July 2009***

**Title:** *Flexible water connectors*

**Pagination:** **22 pages** (xiv preliminary and 8 text), each dated **July 2009**

Automatic notifications about any updates to this publication are available.

- To register for e-mail notifications, and/or to download any existing updates in PDF, enter the Online Store at **www.ShopCSA.ca** and click on **My Account** on the navigation bar.

The **List ID** for this document is **2020209**.

- To receive printed updates, please complete and return the attached card.



Name \_\_\_\_\_

Organization \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

Province/State \_\_\_\_\_

Country \_\_\_\_\_ Postal/Zip Code \_\_\_\_\_

E-mail \_\_\_\_\_

I consent to CSA collecting and using the above information to send me updates relating to this publication.

Visit CSA's policy on privacy at [www.csagroup.org/legal](http://www.csagroup.org/legal) to find out how we protect your personal information.

***ASME A112.18.6-2009/CSA B125.6-09***

Currently in preview, click buy full version

**ASSOCIATION CANADIENNE DE  
NORMALISATION**

BUREAU CENTRAL DE L'INFORMATION  
5060, SPECTRUM WAY, BUREAU 100  
MISSISSAUGA ON L4W 5N6  
CANADA

**CANADIAN STANDARDS  
ASSOCIATION**

CONSOLIDATED MAILING LIST  
5060 SPECTRUM WAY, SUITE 100  
MISSISSAUGA ON L4W 5N6  
CANADA

Affranchir suffisamment
Place Stamp Here

*ASME/CSA Standard*

*ASME A112.18.6-2009/CSA B125.6-09*  
***Flexible water connectors***



**CANADIAN STANDARDS  
ASSOCIATION**

®Registered trade-mark of Canadian Standards Association

## Commitment for Amendments

This Standard is issued jointly by The American Society of Mechanical Engineers (ASME) and the Canadian Standards Association (CSA). Amendments to this Standard will be made only after processing according to the Standards writing procedures of both ASME and CSA.

The American Society of Mechanical Engineers (ASME)  
Three Park Avenue  
New York, NY 10016-5900  
USA  
[www.asme.org](http://www.asme.org)

ISBN-13: 978-0-7918-3220-2  
ISBN-10: 0-7918-3220-1

© Copyright 2009

The 2009 edition of this Standard is being issued with an automatic addenda subscription service. The use of addenda allows revisions made in response to public review comments or committee actions to be published as necessary.

Published in July 2009 by Canadian Standards Association  
A not-for-profit private sector organization  
5060 Spectrum Way, Suite 100  
Mississauga, Ontario, Canada  
L4W 5N6  
1-800-463-6727 • 416-747-4044  
Visit the CSA Online Store at [www.ShopCSA.ca](http://www.ShopCSA.ca)

ISBN 978-1-55491-132-5

**Technical Editor:** Abraham I. Murra

© Canadian Standards Association — 2009

All rights reserved. No part of this publication may be reproduced in any form whatsoever without the prior permission of the publisher.

# Contents

ASME Standards Committee on Plumbing Materials and Equipment v

ASME Project Team 18.6 — Flexible Water Connectors vii

CSA Technical Committee on Plumbing Fittings ix

ASME/CSA Joint Harmonization Task Group on Plumbing Fittings xii

Preface xiii

## 1 Scope 1

## 2 Reference publications 1

## 3 Definitions 2

## 4 General requirements 2

4.1 Materials 2

4.2 Coatings 3

4.3 Connections 3

4.3.1 General 3

4.3.2 Pipe threads 3

4.3.3 Hose end threads 3

4.3.4 Fill valve threads 3

4.3.5 Solder connections 3

4.3.6 Flare connections 3

4.3.7 Compression connections 3

4.3.8 Push-fit fittings 4

4.3.9 Alternate connections 4

4.4 Water heater flexible connectors 4

4.5 Working pressure 4

4.6 Working temperature 4

## 5 Performance requirements and test methods 4

5.1 General 4

5.2 Intermittent impulse pressure test 4

5.2.1 Performance 4

5.2.2 Procedure 4

5.3 Burst pressure test 5

5.3.1 Performance 5

5.3.2 Procedure 5

5.4 Pressure drop test 5

5.4.1 Performance 5

5.4.2 Set-up 5

5.4.3 Procedure 5

5.5 Torque test 5

## 6 Markings 5

---

**Annexes**

**A** (informative) — Exposure to aqueous chloramine 7

**B** (informative) — Unit conversion criteria 8

---

**Tables**

**1** — Maximum pressure drop for flexible connectors 6

Currently in preview, click buy full version

# ***ASME Standards Committee on Plumbing Materials and Equipment***

<b>D.W. Viola</b>	IAPMO, Mokena, Illinois, USA	<i>Chair</i>
<b>S.A. Remedios</b>	Delta Faucet Company, Indianapolis, Indiana, USA	<i>Vice-Chair</i>
<b>R.H. Ackroyd</b>	Rand Technical Consulting, Newburyport, Massachusetts, USA	
<b>S.F. Aridi</b>	NSF International, Ann Arbor, Michigan, USA	
<b>J.A. Ballanco</b>	JB Engineering & Code Consulting, PC, Munster, Indiana, USA	
<b>J. Bouwer</b>	Euro Sales Inc., Elora, Ontario	
<b>M.N. Burgess</b>	Burgess Group Incorporated, San Diego, California, USA	
<b>M. Campos</b>	IAPMO, Ontario, California, USA	
<b>S.L. Cavanaugh</b>	Cavanaugh Consulting, Burbank, California, USA	
<b>S.M. Corcoran</b>	American Society of Sanitary Engineering, Westlake, Ohio, USA	
<b>P.V. DeMarco</b>	IAPMO, Dayton, New Jersey, USA	
<b>G.S. Duren</b>	Code Compliance Inc., Keystone Heights, Florida, USA	
<b>A.R. Emmerson</b>	Buffalo Grove, Illinois, USA	
<b>L.S. Galowin</b>	Bethesda, Maryland, USA	
<b>R.I. Greenwald</b>	Dover, Delaware, USA	
<b>J.M. Koeller</b>	Koeller and Company, Yorba Linda, California, USA	
<b>N. M. Kummerlen</b>	Lorain, Ohio, USA	
<b>J.W. Lauer</b>	Sloan Valve Company, Franklin Park, Illinois, USA	

<b>R.M. Martin</b>	California Energy Commission, Sacramento, California, USA	
<b>T.C. Pitcherello</b>	New Jersey Department of Community Affairs, Trenton, New Jersey, USA	
<b>S. Rawalpindiwala</b>	Kohler Co., Kohler, Wisconsin, USA	
<b>G.L. Simmons</b>	Charlotte Pipe and Foundry Co., Charlotte, North Carolina, USA	
<b>W.M. Smith</b>	Jay R. Smith Mfg. Co., Montgomery, Alabama, USA	
<b>F.R. Volgstadt</b>	Volgstadt & Associates Inc., Madison, Ohio, USA	
<b>R.E. White</b>	Richard E. White & Associates, South Bend, Indiana, USA	
<b>W.C. Whitehead</b>	Whitehead Consulting Services, Danvers, Massachusetts, USA	
<b>C.J. Gomez</b>	ASME, New York, New York, USA	<i>Secretary</i>

# ***ASME Project Team 18.6 — Flexible Water Connectors***

<b>S. Rawalpindiwala</b>	Kohler Co., Kohler, Wisconsin, USA	<i>Chair</i>
<b>R.H. Ackroyd</b>	Rand Technical Consulting, Newburyport, Massachusetts, USA	
<b>S.F. Aridi</b>	NSF International, Ann Arbor, Michigan, USA	
<b>M. Campos</b>	IAPMO, Ontario, California, USA	
<b>S.L. Cavanaugh</b>	Cavanaugh Consulting, Burbank, California, USA	
<b>I.W. Chang</b>	Intertek, Coquitlam, British Columbia	
<b>A.R. Emmerson</b>	Buffalo Grove, Illinois, USA	
<b>E.E. Francis</b>	Mercury Plastics Inc., Middlefield, Ohio, USA	
<b>R.L. George</b>	Ron George Design & Consulting, Monroe, Michigan, USA	
<b>L. Himmelblau</b>	Chicago Faucet Company, Des Plaines, Illinois, USA	
<b>E. Ho</b>	IAPMO Research & Testing, Inc., Ontario, California, USA	
<b>N.M. Kummerlen</b>	Lorain, Ohio, USA	
<b>A. Lunt</b>	Spears Manufacturing, Sylmar, California, USA	
<b>S. Martin</b>	Plumbing Manufacturers Institute, Rolling Meadows, Illinois, USA	
<b>L.A. Mercer</b>	Moen Incorporated, North Olmsted, Ohio, USA	
<b>A. Robles</b>	IAPMO, Ontario, California, USA	
<b>J.M. Smith</b>	Exxon Mobil Chemical, Akron, Ohio, USA	

**S.J. Tokarz** BrassCraft Manufacturing Company,  
Novi, Michigan, USA

**D.W. Viola** IAPMO,  
Mokena, Illinois, USA

**B. Wong** Kuriyama Canada Inc.,  
Brantford, Ontario

# ***CSA Technical Committee on Plumbing Fittings***

<b>K. Ernst</b>	Oakville Stamping & Bending Limited, Oakville, Ontario	<i>Chair</i>
<b>B. Lagueux</b>	Saint-Nicolas, Québec <i>Consumer Representative</i>	<i>Vice-Chair</i>
<b>R. Armstrong</b>	City of Saint John, Saint John, New Brunswick	<i>Associate</i>
<b>W.T. Ball</b>	Woodford Manufacturing Company, Colorado Springs, Colorado, USA	<i>Associate</i>
<b>R. Beck</b>	ICC Evaluation Service Inc., Birmingham, Alabama, USA	<i>Associate</i>
<b>M. Birks</b>	The Birks Company, Moffat, Ontario	
<b>S. Breda</b>	Breda & Associates Ltd., Toronto, Ontario	
<b>C. Caruana</b>	CSA International, Toronto, Ontario	<i>Associate</i>
<b>R.W. Castle</b>	Honeywell Water Solutions, Warwick, Rhode Island, USA	<i>Associate</i>
<b>S.L. Cavanaugh</b>	Cavanaugh Consulting, Burbank, California, USA	
<b>I.W. Chang</b>	Intertek, Coquitlam, British Columbia	<i>Associate</i>
<b>W. Chapin</b>	Cash Acme, Cullman, Alabama, USA	<i>Associate</i>
<b>M. Dennis</b>	Moen Incorporated, Oakville, Ontario	
<b>N. Di Cesare</b>	American Standard Inc., Mississauga, Ontario	
<b>B.G. Diggins</b>	MJS Mechanical Ltd., Calgary, Alberta <i>Representing the Mechanical Contractors Association of Canada</i>	
<b>Y. Duchesne</b>	Régie du bâtiment du Québec, Québec, Québec	

<b>W. Falcomer</b>	City of Ottawa, Ottawa, Ontario <i>Representing Ontario Plumbing Inspectors' Association</i>	
<b>R. Guinn</b>	Canplas Industries Ltd., Barrie, Ontario	<i>Associate</i>
<b>J. Gunn</b>	John C. Gunn Consulting, Roches Point, Ontario	
<b>L. Himmelblau</b>	Chicago Faucet Company, Des Plaines, Illinois, USA	<i>Associate</i>
<b>E. Ho</b>	IAPMO Research & Testing, Inc., Ontario, California, USA	<i>Associate</i>
<b>K.S. Hui</b>	Ontario Ministry of Municipal Affairs and Housing, Toronto, Ontario	
<b>G. Jensen</b>	City of Coquitlam, Coquitlam, British Columbia	
<b>A. Knapp</b>	A. Knapp & Associates, Toronto, Ontario <i>Representing Canadian Copper and Brass Development Association</i>	
<b>N.M. Kummerlen</b>	Lorain, Ohio, USA	
<b>F. Lemieux</b>	Health Canada, Ottawa, Ontario	
<b>S.E. Martin</b>	Plumbing Manufacturers Institute, Rolling Meadows, Illinois, USA	
<b>D. McNamara</b>	Franke Kindred Canada Limited, Midland, Ontario	<i>Associate</i>
<b>S. O'Neill</b>	Mohawk College of Applied Arts and Technology, Stoney Creek, Ontario	
<b>D. Orton</b>	NSF International, Ann Arbor, Michigan, USA	<i>Associate</i>
<b>P. Paré</b>	Watts Industries (Canada) Inc., Burlington, Ontario	<i>Associate</i>
<b>S. Rawalpindiwala</b>	Kohler Co., Kohler, Wisconsin, USA	
<b>S.A. Remedios</b>	Delta Faucet Company, Indianapolis, Indiana, USA	

**R. Roberts**

SAIT Polytechnic,  
Calgary, Alberta

**S. Rouleau**

MAAX Canada,  
Ste-Marie de Beauce, Québec

**P. Saeed**

Powers (a division of Watts Water  
Technologies, Inc.),  
Des Plaines, Illinois, USA

**A.I. Murra**

Canadian Standards Association,  
Mississauga, Ontario

*Project Manager*

# ***ASME/CSA Joint Harmonization Task Group on Plumbing Fittings***

<b>P. Paré</b>	Watts Industries (Canada) Inc., Burlington, Ontario	<i>Co-Chair</i>
<b>S.A. Remedios</b>	Delta Faucet Company, Indianapolis, Indiana, USA	<i>Co-Chair</i>
<b>C. Caruana</b>	CSA International, Toronto, Ontario	
<b>I.W. Chang</b>	Intertek, Coquitlam, British Columbia	
<b>K. Ernst</b>	Oakville Stamping & Bending Limited, Oakville, Ontario	
<b>J. Gunn</b>	John C. Gunn Consulting, Roches Point, Ontario	
<b>L. Himmelblau</b>	Chicago Faucet Company, Des Plaines, Illinois, USA	
<b>E. Ho</b>	IAPMO Research & Testing, Inc., Ontario, California, USA	
<b>A. Knapp</b>	A. Knapp & Associates, Toronto, Ontario <i>Representing Canadian Copper and Brass Development Association</i>	
<b>N.M. Kummerlen</b>	Lorain, Ohio, USA	
<b>B. Lagueux</b>	Saint-Nicolas, Québec <i>Consumer Representative</i>	
<b>F. Lemieux</b>	Health Canada, Ottawa, Ontario	
<b>F.L. Luedke</b>	Neoperl Inc., Waterbury, Connecticut, USA	
<b>D. Orton</b>	NSF International, Ann Arbor, Michigan, USA	
<b>S. Rawalpindiwala</b>	Kohler Co., Kohler, Wisconsin, USA	
<b>P. Saeed</b>	Powers (a division of Watts Water Technologies, Inc.), Des Plaines, Illinois, USA	
<b>A.I. Murra</b>	Canadian Standards Association, Mississauga, Ontario	<i>Project Manager</i>

# Preface

This is the first edition of ASME A112.18.6/CSA B125.6, *Flexible water connectors*.

This Standard replaces ASME A112.18.6-2003, *Flexible Water Connectors*.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the ASME/CSA Joint Harmonization Task Group on Plumbing Fittings, under the jurisdiction of ASME Standards Committee on Plumbing Materials and Equipment and the CSA Technical Committee on Plumbing Fittings. The CSA Technical Committee operates under the jurisdiction of the CSA Strategic Steering Committee on Water Management Products, Materials, and Systems. This Standard has been formally approved by the ASME Standards Committee and the CSA Technical Committee. This Standard was approved as an American National Standard by the American National Standards Institute on July 10, 2009, and will be submitted to the Standards Council of Canada for approval as a National Standard of Canada.

July 2009

## ASME Notes:

- (1) This Standard was developed under procedures accredited as meeting the criteria for American National Standards and it is an American National Standard. The Standards Committee that approved the code or standard was balanced to assure that individuals from competent and concerned interests have had an opportunity to participate. The proposed Standard was made available for public review and comment that provides an opportunity for additional public input from industry, academia, regulatory agencies, and the public-at-large.
- (2) ASME does not “approve,” “rate,” or “endorse” any item, construction, proprietary device, or activity.
- (3) ASME does not take any position with respect to the validity of any patent rights asserted in connection with any items mentioned in this document, and does not undertake to insure anyone utilizing a standard against liability for infringement of any applicable letters patent, nor assume any such liability. Users of a standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, is entirely their own responsibility.
- (4) Participation by federal agency representative(s) or person(s) affiliated with industry is not to be interpreted as government or industry endorsement of this standard.
- (5) ASME accepts responsibility for only those interpretations of this document issued in accordance with the established ASME procedures and policies, which precludes the issuance of interpretations by individuals.
- (6) ASME issues written replies to inquiries concerning interpretation of technical aspects of this Standard. All inquiries regarding this Standard, including requests for interpretations, should be addressed to:  
Secretary, A112 Standards Committee  
The American Society of Mechanical Engineers  
Three Park Avenue  
New York, NY 10016-5990

A request for interpretation should be clear and unambiguous. The request should

- cite the applicable edition of the Standard for which the interpretation is being requested.
- phrase the question as a request for an interpretation of a specific requirement suitable for general understanding and use, not as a request for an approval of a proprietary design or situation. The inquirer may also include any plans or drawings, which are necessary to explain the question; however, they should not contain proprietary names or information.

ASME procedures provide for reconsideration of any interpretation when or if additional information that might affect an interpretation is available. Further, persons aggrieved by an interpretation may appeal to the cognizant ASME Committee.

Interpretations are published on the ASME Web site under the Committee Pages at <http://cstools.asme.org/> as they are issued.

## CSA Notes:

- (1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.
- (2) Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.

- (3) *This publication was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all Clauses of this publication.*
- (4) *CSA Standards are subject to periodic review, and suggestions for their improvement will be referred to the appropriate committee.*
- (5) *All enquiries regarding this Standard, including requests for interpretation, should be addressed to Canadian Standards Association, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6.*  
*Requests for interpretation should*  
*(a) define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;*  
*(b) provide an explanation of circumstances surrounding the actual field condition; and*  
*(c) be phrased where possible to permit a specific “yes” or “no” answer.*  
*Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are published in CSA’s periodical Info Update, which is available on the CSA Web site at [www.csa.ca](http://www.csa.ca).*
- (6) *Attention is drawn to the possibility that some of the elements of this Standard may be the subject of patent rights. CSA is not to be held responsible for identifying any or all such patent rights. Users of this Standard are expressly advised that determination of the validity of any such patent rights is entirely their own responsibility.*

# ASME A112.18.6-2009/CSA B125.6-09

## **Flexible water connectors**

### **1 Scope**

#### **1.1**

This Standard covers flexible water connectors for use in water supply systems under

- (a) continuous pressure in accessible locations; and
- (b) intermittent pressure in recreational vehicles only.

#### **1.2**

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; “may” is used to express an option or that which is permissible within the limits of the standard; and “can” is used to express possibility or capability. Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material. Notes to tables and figures are considered part of the table or figure and may be written as requirements. Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

#### **1.3**

SI units are the units of record in Canada. In this Standard, the yard/pound units are shown in parentheses. The values stated in each measurement system are equivalent in application; however, each system is to be used independently. Combining values from the two measurement systems can result in non-conformance with this Standard.

All references to gallons are to U.S. gallons.

For information on the conversion criteria used in this Standard, see [Annex B](#).

### **2 Reference publications**

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

#### **ASME (The American Society of Mechanical Engineers)**

A112.19.5-2005

*Trim for Water-Closet Bowls, Tanks, and Urinals*

B1.20.1-1983 (R2006)

*Pipe Threads, General Purpose, Inch*

B1.20.3-1976 (R2003)

*Dryseal Pipe Threads, Inch*

B1.20.7-1991 (R2003)

*Hose Coupling Screw Threads, Inch*

B16.18-2001 (R2005)

*Cast Copper Alloy Solder Joint Pressure Fittings*