Part Identifying Number (PIN) Code System Standard for B18 Fastener Products
Part Identifying Number (PIN) Code System Standard for B18 Fastener Products
This Standard will be revised when the Society approves the issuance of a new edition.

ASME issues written replies to inquiries concerning interpretations of technical aspects of this Standard. Interpretations are published on the Committee Web page and under go.asme.org/InterpsDatabase. Periodically certain actions of the ASME B18 Committee may be published as Cases. Cases are published on the ASME Web site under the B18 Committee Page at go.asme.org/B18committee as they are issued.

Errata to codes and standards may be posted on the ASME Web site under the Committee Pages to provide corrections to incorrectly published items, or to correct typographical or grammatical errors in codes and standards. Such errata shall be used on the date posted.

The B18 Committee Page can be found at go.asme.org/B18committee. There is an option available to automatically receive an e-mail notification when errata are posted to a particular code or standard. This option can be found on the appropriate Committee Page after selecting “Errata” in the "Publication Information" section.

ASME is the registered trademark of The American Society of Mechanical Engineers.

This code or standard was developed under procedures accredited as meeting the criteria for American National Standards. 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 code or 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.

ASME does not “approve,” “rate,” or “endorse” any item, construction, proprietary device, or activity.

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 assumes any such liability. Users of a code or 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.

Participation by federal agency representative(s) or person(s) affiliated with industry is not to be interpreted as government or industry endorsement of this code or standard.

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.

No part of this document may be reproduced in any form,
in an electronic retrieval system or otherwise,
without the prior written permission of the publisher.

The American Society of Mechanical Engineers
Two Park Avenue, New York, NY 10016-5990

Copyright © 2015 by
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
All rights reserved
Printed in U.S.A.
CONTENTS

Foreword .............................................................................. vi
Committee Roster ..................................................................... vii
Correspondence With the B18 Committee .............................................. viii

1 Introductory Notes .............................................................. 1

2 General Guidance ............................................................. 1

3 PIN Code Structure ............................................................ 2

Tables
1-1 Fastener Family and Type/Base PIN ................................. 4
2-1 Thread Type ................................................................. 25
2-2 Thread and Point Options for Tapping Screws ..................... 25
3-1 Inch Thread ................................................................. 25
3-2 Inch Size ................................................................. 25
3-3 Metric Thread ............................................................. 26
3-4 Metric Size ................................................................. 27
3-5 miniature Screw Thread .................................................. 28
3-6 Inch Tapping Screw Thread ............................................. 28
3-7 Metric Tapping Screw Thread .......................................... 29
3-8 Inch Hex Socket Head Shoulder Screw Size ..................... 29
3-9 Metric Hex Socket Head Shoulder Screw Size ................... 29
3-10 Inch Spline Socket Set Screw Thread ............................... 29
3-11 Inch Trim Head Machine Screw Size ................................. 29
3-12 Inch Wood Screw Thread .............................................. 30
3-13 Inch Lag Screw Thread .................................................. 30
3-14 Inch Rivet Size Weight .................................................. 30
3-15 Inch Rivet Size Number .................................................. 30
3-16 Inch Rivet Size 1 ......................................................... 30
3-17 Inch Rivet Size/Length ................................................... 30
3-18 Inch Pin Size 1 ............................................................ 31
3-19 Inch Pin Size 2 ............................................................ 31
3-20 Retaining Ring Size Number ............................................. 31
3-21 Inch Retaining Ring Size ............................................... 33
3-22 Inch Washer Size 1 ....................................................... 34
3-23 Inch Washer Size 2 ....................................................... 35
3-24 Inch Washer Size 3 ....................................................... 35
3-25 Inch Washer Size 4 ....................................................... 36
3-26 Metric Washer Size 1 ...................................................... 36
3-27 Metric Washer Size 2 ...................................................... 37
3-28 Metric Key Size 1 ........................................................ 37
3-29 Metric Key Size 2 ........................................................ 38
4-1 Inch Length/Other ........................................................ 38
4-2 Metric Length/Other ....................................................... 40
4-3 Inch miniature Screw Length ......................................... 41
4-4 Insert Length ............................................................... 42
4-5 Inch Pin Length ............................................................ 42
4-6 Inch Eyebolt Full Thread Length ...................................... 42
5-1 Material and Treatment: ASTM Material Specifications ......... 43
5-2 Material and Treatment: UNS Carbon and Alloy Steels ........ 82
5-3 Material and Treatment: UNS Heat and Corrosion Resisting Steels 88
B-141 Cross Reference: Table 2-2 Tapping Screw Point B ....................... 166
B-142 Cross Reference: Table 2-2 Tapping Screw Point BF ...................... 166
B-143 Cross Reference: Table 2-2 Tapping Screw Point BP ...................... 167
B-144 Cross Reference: Table 2-2 Tapping Screw Point BT ...................... 167
B-145 Cross Reference: Table 2-2 Tapping Screw Point C ....................... 167
B-146 Cross Reference: Table 2-2 Tapping Screw Point D ....................... 167
B-147 Cross Reference: Table 2-2 Tapping Screw Point F ....................... 167
B-148 Cross Reference: Table 2-2 Tapping Screw Point G ....................... 167
B-149 Cross Reference: Table 2-2 Tapping Screw Point T ....................... 167
B-150 Cross Reference: Table 2-2 Tapping Screw Point U ....................... 167
B-151 Bridge to Table 3-6 for AB, B, BE, BP, BT ................................ 167
B-152 Bridge to Table 3-6 for C, D, E, F, G, T .................................. 167
B-153 Bridge to Table 3-7 for AB, B, BE, BP, BT ................................ 167
B-154 Bridge to Table 3-7 for D, E, F, T ......................................... 167
B-155 Bridge to Table 3-10 .................................................... 167
B-156 Bridge to Table 3-12 ..................................................... 167
B-157 Bridge to Table 3-13 ..................................................... 167
B-158 Cross Reference: Table 7-9 Washer Component 1 ........................ 167
B-159 Cross Reference: Table 7-9 Washer Component 2 ........................ 167
B-160 Cross Reference: Table 7-9 Washer Component 3 ........................ 167
B-161 Cross Reference: Table 7-9 Washer Component 4 ........................ 167
B-162 Cross Reference: Table 7-9 Washer Component 5 ........................ 167
B-163 Cross Reference: Table 7-9 Washer Component 6 ........................ 167
B-164 Cross Reference: Table 7-9 Washer Component 7 ........................ 167
B-165 Cross Reference: Table 7-9 Washer Component 8 ........................ 167
B-166 Cross Reference: Table 7-9 Washer Component 9 ........................ 168
B-167 Cross Reference: Table 7-9 Washer Component 10 ......................... 168
B-168 Cross Reference: Table 7-9 Washer Component 11 ......................... 168
B-169 Cross Reference: Table 7-9 Washer Component 12 ......................... 168
B-170 Bridge to Table 3-11 ..................................................... 168
B-171 Bridge to Table 3-4 ....................................................... 168
B-172 Bridge to Table 7-10 ........................................................ 168
B-Index B18.24 Legacy Table References From B18.24.1, B18.24.2, and B18.24.3 168
C-1 Materials for Bent Bolts .................................................... 174
C-2 Finish Designations for Bent Bolts ........................................... 175