ASME B16.52-2024 (Revision of ASME B16.52-2018)

Forged Nonferrous Fittings, Socket-Welding and Threaded

(Titanium, Titanium Alloys, Aluminum, and Aluminum Alloys)

AN AMERICAN NATIONAL STANDARD



ASME B16.52-2024 (Revision of ASME B16.52-2018)

Forged Nonferrous Fittings, Socket-Welding and Threaded

(Titanium, Titanium Alloys, Aluminum, and Aluminum Alloys)

AN AMERICAN NATIONAL STANDARD



Date of Issuance: June 28, 2024

The next edition of this Standard is scheduled for publication in 2029.

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 ensure that individuals from competent and concerned interests had an opportunity to participate. The proposed code or standard was made available for public review and comment, which provided an opportunity for additional public input from industry, academia, regulatory agencies, and the public-at-large.

ASME does not "approve," "certify," "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 does ASME assume 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 representatives or persons 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.

The endnotes and preamble in this document (if any) are part of this American National Standard.



ASME Collective Membership Mark

All rights reserved. "ASME" and the above ASME symbol are registered trademarks of The American Society of Mechanical Engineers. No part of this document may be copied, modified, distributed, published, displayed, or otherwise reproduced in any form or by any means, electronic, digital, or mechanical, now known or hereafter invented, without the express written permission of ASME. No works derived from this document or any content therein may be created without the express written permission of ASME. Using this document or any content therein to train, create, or improve any artificial intelligence and/or machine learning platform, system, application, model, or algorithm is strictly prohibited.

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

Copyright © 2024 by THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

CONTENTS

Foreword		11
Committee	e Roster	v
Correspondence With the B16 Committee		vi
Summary	of Changes	vii
List of Cha	anges in Record Number Order	ix
1	Scope and General	1
2	Pressure Ratings	1
3	Size and Type	2
4	Marking	2
5	Material	3
6	Dimensions	3
7	Additional Tolerances	4
8	Proof Testing	4
Mandator	y Appendix	
I	References	17
Nonmand	atory Appendix	
A	Quality System Program	18
Figures		
3.2-1	Method of Designating Outlets of Reducing Tees and Crosses	15
6.2.7-1	Welding Gap and Minimum Flat Dimensions for Socket-Welding Fittings	16
Tables		
1.2.1-1	Types of Designated Schedule Fittings by Pipe Schedule and NPS Size Range	5
1.2.1-2	Socket-Welding Fittings	6
1.2.1-3	Forged Threaded Fittings	11
1.2.1-4	Forged Threaded Fittings — Street Elbows	12
1.2.1-5	Threaded Fittings	13
1.2.1-6	Plugs and Bushings	14
2.1.1-1	Correlation of Designated Schedule Fittings With Pipe Schedule for Calculation of Ratings	15
2.1.2-1	Nominal Wall Thickness of Schedule 160 Pipe	15