

AN AMERICAN NATIONAL STANDARD

ASME B16.47a-1998

ADDENDA

to

ASME B16.47-1996
LARGE DIAMETER STEEL FLANGES
NPS 26 Through NPS 60

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Three Park Avenue • New York, NY 10016

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ASME B16.47a-1998

Following approval by the ASME B16 Committee and ASME, and after public review, ASME B16.47a-1998 was approved by the American National Standards Institute on February 20, 1998.

Addenda to the 1996 Edition of ASME B16.47 are issued in the form of replacement pages. Revisions, additions, and deletions are incorporated directly into the affected pages. It is advisable, however, that this page, the Addenda title and copyright pages, and all replaced pages be retained for reference.

SUMMARY OF CHANGES

This is the first Addenda to be published to ASME B16.47-1996.

Replace or insert the pages listed. Changes given below are identified on the pages by a margin note, (a), placed next to the affected area. The pages not listed are the reverse sides of the listed pages and contain no changes.

<i>Page</i>	<i>Location</i>	<i>Change</i>
iii	Foreword	In the last paragraph, ASME address updated
vii	Committee Roster	Updated
2	2.4	First sentence corrected by Errata
8, 9	Table 1A	(1) A 350 Gr. LF6 Cl. 1 added to material group 1.1 (2) A 350 Gr. LF6 Cl. 2 added to material group 1.2 (3) New material group 1.15 added (4) A 351 Gr. CE8MN, A 351 Gr. CD4MCu, A 351 Gr. CD3MWCuN, A 182 Gr. F55, and A 240 Gr. S32760 added to material group 2.8
11	Table 2-1.1	(1) A 350 Gr. LF6 Cl. 1 added (2) Note (4) added (3) Entries for last four class temperatures corrected by Errata
12	Table 2-1.2	(1) A 350 Gr. LF6 Cl. 2 added (2) Note (3) added (3) Working pressure for Class 75 at 500°F corrected by Errata to read 85

<i>Page</i>	<i>Location</i>	<i>Change</i>
20.1	Table 2-1.15	Added
27	Table 2-2.7	Working pressure for Class 400 at 850°F corrected by Errata to read 570
28	Table 2-2.8	A 351 Gr. CE8MN, A 351 Gr. CD4MCu, A 351 Gr. CD3MWCuN, A 182 Gr. F55, and A 240 Gr. S32760 added
42	Table 13	Depth of <i>C</i> in sketch corrected by Errata
43	Table 14	Depth of <i>C</i> in sketch corrected by Errata
44	Table 15	Depth of <i>C</i> in sketch corrected by Errata
59	Annex D	Addresses of ASME and ASTM updated
61	Interpretations	ASME address updated

SPECIAL NOTE:

The Interpretations to ASME B16.47 are included in this Addenda as a separate section for the user's convenience. This section, however, is not part of the Addenda or the edition.

FOREWORD

(a)

(This Foreword is not part of ASME B16.47-1996.)

In November, 1980, a task force was appointed within Subcommittee C of the American National Standards (ANSI) B16 Committee to develop a standard for pipe flanges in size NPS 26 through NPS 48. Every attempt was made to standardize those dimensions that existed within the industry for the materials covered by ANSI B16.5.

Prompted by suggestions received from committee members, the task force was authorized to increase the size range to NPS 60. The first draft was developed in December 1982 to include Class 75 through Class 1500 for the size range NPS 26 through NPS 60. Flange dimensions were based on the Manufacturers Standardization Society Standard Practice (MSS SP) 44 flanges except for Class 75 flanges which are ANSI/API 605 flanges.

At the request of the American Petroleum Institute (API), flange dimensions in accordance with the API Standard 605 were included in the subsequent drafts. Class 1500 flanges were deleted due to lack of interest in using large size flanges in that pressure-temperature rating.

The API-605 flanges for Classes 150 and 300 and for sizes NPS 36 and smaller for classes higher than Class 300 are not compatible with the MSS SP-44 flanges. Thus, the MSS SP-44 flanges are designated as Series A flanges and the API-605 flanges are designated as Series B flanges in this Standard. Materials covered in this Standard are as in ANSI B16.5 except nickel base alloys are excluded. Pressure-temperature ratings are in accordance with ANSI B16.5.

In 1982, American National Standards Committee B16 was reorganized as the American Society of Mechanical Engineers (ASME) B16 Committee operating under procedures accredited by ANSI. Following approval by the Standards Committee and ASME, approval as an American National Standard was given by ANSI on June 12, 1990.

This 1996 Edition allows flanges marked with more than one material grade or specification, revises flange facing finish requirements, has revised pressure-temperature ratings for several material groups, adds permissible flange facing imperfections, adds blind flanges for Series B flanges, and includes several other revisions. Following approval by the Standards Committee and ASME, approval as an American National Standard was given by ANSI on October 3, 1996 with the new designation ASME B16.47-1996.

All requests for interpretations or suggestions for revisions should be sent to the Administrative Secretary B16, The American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016-5990.

ASME B16 COMMITTEE
Standardization of Valves, Flanges, Fittings, Gaskets, and Valve Actuators

(a)

(The following is a roster of the Committee at the time of approval of this Standard.)

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