ASME BPVC.SSC.I.II.V.IX.XIII-2023

Summary of Significant Changes in the

2023 ASME Boiler and Pressure Vessel Code

Section I
Section II
Section V
Section IX
Section XIII

ASME
SETTING THE STANDARD

ASME BPVC.SSC.I.II.V.IX.XIII-2023

Summary of Significant Changes in the 2023 ASME Boiler and Pressure Vessel Code

Sections I, II, V, IX, and XIII

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FOREWORD

This book is a companion to the 2023 ASME Boiler and Pressure Vessel Code (BPVC). It explains only significant changes to Code requirements that will be published in the 2023 Edition. It covers the following ASME BPVC Sections:

- Section I
- Section II, Parts A, B, C, and D
- Section V
- Section IX
- Section XIII

For each of the above Sections, an Introduction describes the historical background, scope of coverage, and commercial application of that Section. The list of changes follows the Introduction. The "Explanation" for each change provides the reason for the action and the value to the Code user. The sequence of the changes follows the order of the Code requirements.

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ASME Press's *Online Companion Guide to the ASME Boiler and Pressure Vessel Codes: Criteria and Commentary on Select Aspects of the Boiler & Pressure Vessel and Piping Codes* (January 2020) provided source material for the introduction preceding each list of changes. The complete Guide is available in the ASME Digital Collection at https://asmedigitalcollection.asme.org/ebooks/pages/onlinecompanionguide.

ASME gratefully acknowledges the members of the following volunteer committees, who are responsible for development of the ASME Boiler and Pressure Vessel Code Sections noted in this book:
- BPV Committee on Power Boilers (I)
- BPV Committee on Materials (II)
- BPV Committee on Nondestructive Examination (V)
- BPV Committee on Welding, Brazing, and Fusing (IX)
- BPV Committee on Overpressure Protection (XIII)

SECTION I

Introduction

Section I covers rules for new construction of power boilers, electric boilers, miniature boilers, high temperature water boilers, heat recovery steam generators, solar receiver steam generators, certain fired pressure vessels, and liquid phase thermal fluid heaters to be used in stationary service, and includes power boilers used in locomotive, portable, and traction service. The scope of Section I applies to the boiler proper and to the boiler external piping. It also includes pressure vessels in which an organic fluid is vaporized by the application of heat resulting from the combustion of fuel (solid, liquid, or gaseous) or from solar radiation. Superheaters, economizers, and other pressure parts connected directly to the boiler without intervening valves are considered parts of the boiler proper and their construction falls under Section I rules.

The objective of Section I rules is to provide reasonable protection of life and property, but with a margin for deterioration in service to provide a reasonably long, safe period of usefulness. ASME Code Certification (including data forms and stamping with the ASME Certification Mark and appropriate Designator), along with inspection by the Authorized Inspector, is required for the boiler proper and the boiler external piping.