APPENDIX A — NONMANDATORY ACCEPTABLE ASTM EDITIONS

01

All materials allowed by the various Code Sections and used for construction within the scope of their rules shall be furnished in accordance with the Material Specifications contained within Section II and this Appendix except where otherwise provided in Code Cases or in the applicable Section of the Code. Materials covered by these Specifications are acceptable for use in items covered by the Code Sections only to the degree indicated in the applicable Section. Materials for Code use should preferably be ordered, produced, and documented on this basis; however, material produced under an ASTM Specification may be used in lieu of the corresponding ASME Specification as listed in this Appendix. Material produced to an ASME or ASTM Specification with requirements different from the requirements of the corresponding Specification may also be used in accordance with the above, provided the material manufacturer or vessel manufacturer certifies with evidence acceptable to the Authorized Inspector that the corresponding Specification requirements have been met. This Appendix lists the Specifications and acceptable dates of issue as well as the Book sections of the ASME Boiler Code in which the specification is approved for use.

Specification	Book Section I	III	IV	VIII-1	VIII-2	Nuc. Code Case	Non Nuc. Code Case	Latest Adopted ASTM	Other Acceptable ASTM Editions
SA-6/SA-6M Identical	-General Requirements, Rolled Products					×	...	99b	88c through 99b
SA-20/SA-20M Identical	-General Requirements, Plates			×	×	...	×	97a	88 through 97a
SA-29/SA-29M Identical	-General Requirements, Bars					...	×	99	88 through 99
SA-36/SA-36M Identical	×	×	×	×	×	×	×	97a$^{\epsilon 1}$	88 through 97a$^{\epsilon 1}$
SA-47 Identical	...	...	...	×	...	...	...	90	84 through 90
SA-53/SA-53M Identical except for editorial differences in Note 6 and 11.2.2.1	×	×	×	×	...	...	×	99	88a through 99
SA-105/SA-105M Identical	×	×	×	×	×	×	×	98	87a through 98
SA-106 Identical except for editorial differences in 8.1, 13.4, and 24.1 and deletion of ASTM caveat 1.5	×	×	×	×	×	×	×	95	88a through 95

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services

Specification	Book Section I	III	IV	VIII-1	VIII-2	Nuc. Code Case	Non Nuc. Code Case	Latest Adopted ASTM	Other Acceptable ASTM Editions
SA-134	...	...	×	...	...	...	...	93	85 through 93
Identical except for additional requirement as shown in spec									
SA-135	...	...	×	×	...	...	...	96	88 through 96
Identical									
SA-178/SA-178M	×	×	×	×	×	×	×	95	89 through 95
Identical									
SA-179/SA-179M	...	...	...	×	...	...	...	90a	88a through 90a
Identical									
SA-181/SA-181M	×	×	×	×	×	×	×	95b	87 through 95b
Identical except for editorial differences in 7.3.2 and 12.6									
SA-182/SA-182M	×	×	...	×	×	×	×	98	87a through 98
Identical except for the clarified heat treatment requirements by the addition of Note 4 to Table 1									
SA-192/SA-192M	×	...	×	×	...	...	...	91	88 through 91
Identical									
SA-193/SA-193M	...	×	×	×	×	×	×	98a	87 through 98a
Identical except for editorial differences in 3.1.1, 19.4, Note 6, Table 1, and editorial differences in Table 2									
SA-194/SA-194M	...	×	...	...	×	×	...	99	87 through 99
Identical except for editorial differences in Tables 1 and 4									
SA-199/SA-199M	...	...	...	×	×	...	...	92	88 through 92
Identical									
SA-202/SA-202M	×	...	...	×	...	...	...	93	82 through 93
Identical									
SA-203/SA-203M	×	×	...	×	×	...	...	97	82 through 97
Identical									
SA-204/SA-204M	×	×	...	×	×	×	...	93	88 through 93
Identical									
SA-209/SA-209M	×	...	...	×	×	...	...	95	88 through 95
Identical									
SA-210/SA-210M	×	×	×	×	×	×	×	95	88 through 95
Identical except for editorial differences in Table 2									
SA-213/SA-213M	×	×	×	×	×	×	×	95a	88a through 95a
Identical except for editorial differences in 5.2.1, 6.1, and 6.1.1 and the deletion of S3, and clarified heat treatment requirements in 6.4									
SA-214/SA-214M	...	...	...	×	...	...	...	90a	88 through 90a
Identical									
SA-216/SA-216M	×	×	×	×	×	×	×	93	84b through 93
Identical except for addition of 2.3 and editorial differences in 2.1 and 10.1									
SA-217/SA-217M	×	×	...	×	×	×	×	99	93 through 99
Identical									

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services

Specification	Book Section I	III	IV	VIII-1	VIII-2	Nuc. Code Case	Non Nuc. Code Case	Latest Adopted ASTM	Other Acceptable ASTM Editions
SA-225/SA-225M Identical	...	...	...	×	×	...	...	93	86 through 93
SA-226/SA-226M Identical	×	...	×	×	...	...	...	95	88 through 95
SA-232/SA-232M Identical	...	...	...	...	...	...	...	91	...
SA-234/SA-234M Identical	×	×	...	×	×	×	×	97	82a through 97
SA-240 Identical except for editorial differences in Table 1	×	×	×	×	×	×	×	97a	88c through 97a
SA-249/SA-249M Identical except for the deletion of S5, which addresses unstraightened tubes, and clarified heat treatment requirements in 6.2	×	×	×	×	×	×	×	96a	88b through 96a
SA-250/SA-250M Identical	×	...	...	×	...	...	×	95	88a through 95
SA-263 Identical	...	...	...	...	...	...	...	94	88 through 94
SA-264 Identical	...	...	...	...	...	...	...	94a	88 through 94a
SA-265 Identical	...	...	...	...	...	...	...	94a	88 through 94a
SA-266/SA-266M Identical	×	×	×	×	×	×	×	99	87 through 99
SA-268/SA-268M Identical	×	×	...	×	×	...	×	96	88b through 96
SA-275/SA-275M Identical except for editorial differences in 15.1	- Magnetic Particle Examination of Forgings						...	96	86 through 96
SA-278 Identical	...	...	...	×	...	...	×	93	85 through 93
SA-283/SA-283M Identical	...	×	...	×	×	×	...	93	88 through 93
SA-285/SA-285M Identical	×	×	×	×	×	...	×	90	82(1987) through 90
SA-299/SA-299M Identical	×	×	...	×	×	×	...	97	82(1987) through 97
SA-302/SA-302M Identical	×	×	...	×	×	×	×	93	82 through 93
SA-307 Identical	...	×	×	×	...	×	...	93a	84 through 93a

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services

Specification	Book Section I	III	IV	VIII-1	VIII-2	Nuc. Code Case	Non Nuc. Code Case	Latest Adopted ASTM	Other Acceptable ASTM Editions
SA-311/SA-311M	...	...	×	...	...	...	×	90b	...
Identical except for deletion of 5.1.11 and editorial corrections to Table 1									
SA-312/SA-312M	×	×	...	×	×	×	×	00	88a through 00
Identical except for the heat treatment requirements for the H grades in 5.2, and the editorial retention of Grades S35315, N08367, and N08904 in Table 2. Additionally in Tables 2 and 3, Grade S24565 is correctly identified as S34565									
SA-320/SA-320M	...	×	×	×	×	×	...	99	85 through 99
Identical									
SA-325	...	×	×	×	...	×	...	94	86a through 94
Identical except for editorial differences in para. 4.3.4									
SA-333/SA-333M	...	×	...	×	×	...	×	99	94 through 99
Identical except for the deletion of 12.2 that conflicts with 15, and the editorial addition of 2.2 to the Referenced Documents section									
SA-334/SA-334M	...	×	...	×	×	...	...	96	88$^{\epsilon 1}$ through 96
Identical									
SA-335/SA-335M	×	×	...	×	×	×	×	95a	88a through 95a
Identical except for 5.3.4 and Table 1									
SA-336/SA-336M	×	×	...	×	×	×	×	96	87a through 96
Identical except for clarified heat treatment requirements in 6.2									
SA-350/SA-350M	...	×	...	×	×	...	×	00	87 through 00
Identical									
SA-351/SA-351M	×	×	×	×	×	×	×	94a$^{\epsilon 1}$	86 through 94a$^{\epsilon 1}$
Identical									
SA-352/SA-352M	...	×	...	×	×	...	×	93$^{\epsilon 1}$	88 through 93$^{\epsilon 1}$
Identical except for 2.3 and 9.1									
SA-353/SA-353M	...	×	...	×	×	...	×	93	87 through 93
Identical									
SA-354	...	×	×	×	...	×	...	95	86 through 95
Identical									
SA-358/SA-358M	...	×	...	×	...	×	×	95a	88 through 95a
Identical except for clarified heat treatment requirements in 5.3.1, editorial differences in Table 1, and a requirement for ASME stamping (NPT or U, as appropriate) per the subtitle									
SA-369/SA-369M	×	×	...	×	×	×	×	92	88 through 92
Identical									
SA-370	- Mechanical Testing of Steel Products					×	×	96	77 through 96
Identical									
SA-372/SA-372M	...	×	...	×	×	...	×	95	...
Identical except for the additional requirements in 5.3									
SA-376/SA-376M	×	×	...	×	×	×	×	93	88 through 93
Identical except for editorial differences in Table 2, and clarified heat treatment requirements in 5.2.1									

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services

Specification	Book Section I	III	IV	VIII-1	VIII-2	Nuc. Code Case	Non Nuc. Code Case	Latest Adopted ASTM	Other Acceptable ASTM Editions
SA-387/SA-387M Identical	×	×	...	×	×	×	×	92$^{\epsilon 1}$	88 through 92$^{\epsilon 1}$
SA-388/SA-388M Identical	- Ultrasonic Testing of Forgings						×	95	86 through 95
SA-395 Identical	...	...	...	×	...	×	×	88(R93)$^{\epsilon 1}$	80 through 88(1993)$^{\epsilon 1}$
SA-403/SA-403M Identical except for clarified heat treatment requirements in 6.1	...	×	...	×	×	×	×	95	86 through 95
SA-409/SA-409M Identical except for clarified heat treatment requirements in 5.3.1 and a requirement for ASME stamping (NPT or U, as appropriate) per the subtitle	...	×	...	×	...	...	×	95a$^{\epsilon 1}$	88 through 95a$^{\epsilon 1}$
SA-414/SA-414M Identical except for clarification of deoxidation practice in 5.3 and Tables 1 and 2	...	×	×	×	...	...	×	92(1993)$^{\epsilon 1}$	88 through 92(1993)$^{\epsilon 1}$
SA-420/SA-420M Identical except for editorial corrections to Tables 4 and 5	...	×	...	×	×	...	...	99	85a through 99
SA-423/SA-423M Identical	×	...	...	×	×	...	...	95	89 through 95
SA-426 Identical except for deletion of Grade CP7 in Table 3	...	×	...	...	...	×	...	92	80 through 92
SA-430/SA-430M Identical except for clarified heat treatment requirements in 5.4.1	×	×	...	×	×	×	×	91	88$^{\epsilon 1}$ through 91
SA-435/SA-435M Identical	- Straight Beam Ultrasonic of Plates					...	...	90	82(1987) through 90
SA-437/SA-437M Identical	...	×	...	...	...	...	...	99	84b through 99
SA-449 Identical except for editorial differences in 5.1.4	...	×	...	×	...	×	...	92b	87 through 92b
SA-450/SA-450M Identical	- General Requirements for Tubes					...	×	96	88a through 96
SA-451 Identical except for editorial differences in 15.1	...	×	...	...	...	...	...	93	80(1985) through 93
SA-452 Identical	...	×	...	×	...	×	...	88	...
SA-453/SA-453M Identical except for addition of Table 10 on threading and the editorial revision of 5.2.2 on threading. Editorial revision of 13. Certification Section to clarify that the bolting Grade, Class, and Type must be included	...	×	...	×	...	×	...	99	86 through 99
SA-455/SA-455M Identical	...	×	×	×	...	...	×	90(R96)$^{\epsilon 1}$	82(1987) through 90(R96)$^{\epsilon 1}$
SA-476 Identical except for editorial differences in 4.1	...	...	...	×	...	...	...	90	82 through 90

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services

Specification	Book Section I	III	IV	VIII-1	VIII-2	Nuc. Code Case	Non Nuc. Code Case	Latest Adopted ASTM	Other Acceptable ASTM Editions
SA-479/SA-479M Identical	×	×	×	×	×	×	×	99a	87b through 99a
SA-480/SA-480M Identical	- General Requirements - Flat Products						...	99b	88 through 99b
SA-484/SA-484M Identical - General Requirements Wrought SS Products								98	87 through 98
SA-487/SA-487M Identical	...	×	...	×	×	×	×	93	88 through 93
SA-494/SA-494M	- See Section II, Part B								
SA-508/SA-508M Identical	...	×	...	×	×	×	×	95	87 through 95
SA-515/SA-515M Identical	×	×	×	×	×	×	×	93	82 through 93
SA-516/SA-516M Identical	×	×	×	×	×	×	×	90	86 through 90
SA-517/SA-517M Identical except for Grades A, B, E, F, J, P, and deletion of fusion in 1.1	...	×	...	×	×	×	...	93	87a$^{\epsilon 1}$ through 93
SA-522/SA-522M Identical	...	×	...	×	×	...	...	95	87 through 95
SA-524 Identical	...	×	...	×	×	×	...	93	88 through 93
SA-530/SA-530M Identical	- General Requirements for Pipe							99	88a through 99
SA-533/SA-533M Identical	...	×	...	×	×	×	...	93	87 through 93
SA-537/SA-537M Identical	...	×	...	×	×	...	×	91	86 through 91
SA-540/SA-540M Identical	...	×	...	×	×	×	...	98	84a through 98
SA-541/SA-541M Identical	...	×	...	×	×	×	×	95	87a through 95
SA-542/SA-542M Identical except for Table 1	...	...	...	×	×	×	×	95	88 through 95
SA-543/SA-543M Identical	...	...	...	×	×	...	...	93	87 through 93
SA-553/SA-553M Identical	...	×	...	×	×	...	×	93	87b through 93
SA-556/SA-556M Identical	...	...	...	×	...	...	...	90a(R95)$^{\epsilon 1}$	88 through 90a(R95)$^{\epsilon 1}$

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services

Specification	Book Section I	III	IV	VIII-1	VIII-2	Nuc. Code Case	Non Nuc. Code Case	Latest Adopted ASTM	Other Acceptable ASTM Editions
SA-557/SA-557M Identical	...	...	...	×	...	...	...	90a	88 through 90a
SA-562/SA-562M Identical	...	...	...	×	...	...	...	90	82(1987) through 90
SA-563 Identical	...	...	...	×	×	×	...	94	84 through 94
SA-564/SA-564M Identical	...	×	...	×	...	×	...	99	87b through 99
SA-574 Based on A 325-80a and A 574-82. Material conforming to A 574-82 can usually be requalified to conform to this specification	...	×	...	×	...	×	...	82	...
SA-577/SA-577M Identical	- Ultrasonic Angle Beam of Plates					...	...	90	86 through 90
SA-578/SA-578M Identical	- Ultrasonic Straight Beam of Plates					...	...	96	85 through 96
SA-587 Identical except for deletion of 1.5	...	×	...	×	...	...	...	93	88 through 93
SA-592/SA-592M Identical	...	×	...	×	×	×	...	89(1994)$^{\epsilon 1}$	85 through 89(1994)$^{\epsilon 1}$
SA-609/SA-609M Identical	- Ultrasonic Longitudinal Beam - Castings					...	...	91	83 through 91
SA-612/SA-612M Identical	...	×	...	×	...	...	...	90	87 through 90
SA-620/SA-620M Identical except for editorial changes in 6.1.1	...	...	×	×	...	...	...	96	84 through 96
SA-638/SA-638M Identical except for an editorial correction in 6.2	...	×	...	...	...	×	×	00	87 through 00
SA-645/SA-645M Identical	...	...	...	×	×	...	×	99a	87(1991) through 99a
SA-649/SA-649M Identical	...	...	...	...	...	...	×	99	91a through 99
SA-660 Identical	×	×	...	...	...	...	...	91a	88 through 91a
SA-662/SA-662M Identical	...	...	...	×	×	...	...	93	86 through 93
SA-666 Identical	...	...	...	...	...	...	...	99	90 through 99
SA-667/SA-667M Identical	...	...	...	×	...	...	...	87	87(1993)

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services

Specification	Book Section I	III	IV	VIII-1	VIII-2	Nuc. Code Case	Non Nuc. Code Case	Latest Adopted ASTM	Other Acceptable ASTM Editions
SA-671	...	×	...	...	...	...	×	94	85 through 94
Identical except for additional requirements that apply as shown in Specification									
SA-672	...	×	...	...	...	...	...	94	81 through 94
Identical except for the deletion of pipe Grade K. The additional requirements apply as shown in the Specification.									
SA-675/SA-675M	×	×	×	×	×	×	...	90a(R95)$^{\epsilon 1}$	85 through 90a(R95)$^{\epsilon 1}$
Identical									
SA-688/SA-688M	...	×	...	×	×	...	...	98	88a through 98
Identical except that the solution treatment of Grade UNS N08637 in 8.1 is mandatory									
SA-691	...	×	...	...	...	×	...	93	85a through 93
Identical except that the additional requirements apply as shown in the Specification									
SA-693	...	×	...	...	...	...	...	93	88 through 93
Identical									
SA-695	...	×	...	×	...	...	...	90b	84 through 90b
Identical for Type B only									
SA-696	...	×	...	...	...	...	...	90a(R95)$^{\epsilon 1}$	85 through 90a(R95)$^{\epsilon 1}$
Identical									
SA-703/SA-703M	- General Requirements for Castings							94	87b through 94
Identical									
SA-705/SA-705M	...	×	...	...	...	×	...	93	87a through 93
Identical									
SA-723/SA-723M	...	×	...	...	×	...	...	94	86a through 94
Identical except for editorial differences in 6.2.2 and 6.2.3									
SA-724/SA-724M	...	...	...	×	×	...	...	90	88 through 90
Identical									
SA-727/SA-727M	...	×	...	×	×	...	...	96	87 through 96
Identical									
SA-731/SA-731M	...	...	...	×	...	...	...	91	88 through 91
Identical									
SA-736/SA-736M	...	...	...	...	...	...	...	88(R94)	...
Identical									
SA-737/SA-737M	...	×	...	×	×	...	...	87(R91)	...
Identical									
SA-738/SA-738M	...	×	...	×	×	...	×	00	87a through 00
Identical									
SA-739	...	×	...	×	×	...	...	90a(R95)	81a through 90a(R95)
Identical									
SA-745/SA-745M	- Ultrasonic of Stainless Steel Forgings						...	94	...
Identical except for deletion of 1.5									

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services

Specification	Book Section I	III	IV	VIII-1	VIII-2	Nuc. Code Case	Non Nuc. Code Case	Latest Adopted ASTM	Other Acceptable ASTM Editions
SA-747/SA-747M Identical	...	...	...	×	...	...	...	93	86 through 93
SA-748/SA-748M Identical	...	...	...	×	...	...	...	87	...
SA-751/SA-751M Identical	- Chemical Analysis Test Methods for Steel							95	89a through 95
SA-765/SA-765M Identical	...	...	...	×	×	...	...	94	...
SA-770/SA-770M Identical	- Tension Testing of Steel Plates					...	×	86	86(1990)[e1]
SA-781/SA-781M Identical	- Common Requirements for Castings					...	...	99a	87a through 99a
SA-788 Identical	- General Requirements for Forgings					...	...	94	87 through 94
SA-789/SA-789M Identical	...	...	...	×	...	...	×	95	88a through 95
SA-790/SA-790M Identical	...	...	...	×	...	...	×	95	88 through 95
SA-803/SA-803M Identical	...	...	...	×	×	...	...	96	...
SA-812/SA-812M Identical	...	...	...	×	×	...	...	96	83 through 96
SA-813/SA-813M Identical except for clarified heat treatment requirements in 4.2.2	...	×	...	×	×	...	...	95	88a through 95
SA-814/SA-814M Identical except for clarified heat treatment requirements in 5.2.2	...	×	...	×	×	...	...	96	88a through 96

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services

Specification	Book Section I	III	IV	VIII-1	VIII-2	Nuc. Code Case	Non Nuc. Code Case	Latest Adopted ASTM	Other Acceptable ASTM Editions
SA-815/SA-815M Identical	...	...	...	...	...	...	...	99	86 through 99
SA-832/SA-832M Identical except for editorial difference in Table 1	...	...	...	×	×	...	...	95	84(1989) through 95
SA-834 Identical	- Common Requirements for Iron Castings					...	...	94	84 through 94
SA-836/SA-836M Identical	...	...	...	×	...	...	×	95b	87a through 95b
SA-841/SA-841M Identical	...	...	...	...	...	...	...	90	88 through 90
SA-905 Identical	...	...	...	...	...	...	...	93	91 through 93
SA-941 Identical	...	...	...	...	...	...	...	99b	...
SA-960 Identical	...	...	...	...	...	...	...	99b	...
SA-961 Identical	...	...	...	...	...	...	...	99	...
SA-962/SA-962M Identical	...	...	...	...	...	...	...	99	...
SA-995 Identical	...	...	...	...	...	×	×	98	...
SF-568 Identical except for editorial difference in para. 3.1.7	- Threaded Metric Fasteners					...	...	93a	...

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services