

ASME BOILER AND PRESSURE VESSEL CODE SECTION I

INTERPRETATIONS Volume 63

Interpretations of the Code have historically been posted in January and July at <http://cstools.asme.org/interpretations.cfm>. Interpretations issued during the previous two calendar years are included with the publication of the applicable Section of the Code in the 2015 Edition. Interpretations of Section III, Divisions 1 and 2 and Section III Appendices are included with Subsection NCA.

Following the 2015 Edition, interpretations will not be included in the edition; they will be issued in real time in ASME's Interpretations Database at <http://go.asme.org/Interpretations>. Historical BPVC interpretations may also be found in the Database.

Volume 63 is the interpretations volume included with the update service to the 2015 Edition.

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INTERPRETATIONS VOLUME 63 — SECTION I

Replies to Technical Inquiries January 1, 2013 through December 31, 2014

FOREWORD

GENERAL INFORMATION

This publication includes all written interpretations issued between the indicated dates by the ASME Staff on behalf of the ASME Boiler and Pressure Vessel Committee in response to inquiries concerning interpretations of the ASME Boiler and Pressure Vessel Code. A contents is also included that lists subjects specific to the interpretations covered in the individual volume.

These interpretations are taken verbatim from the original letters, except for a few typographical and editorial corrections made for the purpose of improved clarity. In some instances, a review of the interpretation revealed a need for corrections of a technical nature. In these cases, a revised interpretation is presented bearing the original interpretation number with the suffix R and the original file number with an asterisk. Following these revised interpretations, new interpretations and revisions to them issued during the indicated dates are assigned interpretation numbers in chronological order. Interpretations applying to more than one Code Section appear with the interpretations for each affected Section.

ASME procedures provide for reconsideration of these interpretations when or if additional information is available that the inquirer believes might affect the interpretation. Further, persons aggrieved by an interpretation may appeal to the cognizant ASME committee or subcommittee. As stated in the Statement of Policy in the Code documents, ASME does not “approve,” “certify,” “rate,” or “endorse” any item, construction, proprietary device, or activity.

An interpretation applies either to the Edition and Addenda in effect on the date of issuance of the interpretation or the Edition and Addenda stated in the interpretation. Subsequent revisions to the Code may supersede the interpretation.

For detailed instructions, see “Submittal of Technical Inquiries to the ASME Boiler and Pressure Vessel Standards Committees” in the front matter.

SUBJECT AND NUMERICAL INDEXES

Subject and numerical indexes (if applicable) have been prepared to assist the user in locating interpretations by subject matter or by location in the Code. They cover interpretations issued from Volume 12 up to and including the present volume.

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Interpretation: I-13-06

Subject: PG-71.2 and Figure PG-58.3.1(b) (2010 Edition)
Date Issued: March 19, 2013
File: 12-1509

Question (1): Does the last sentence in PG-71.2 apply to the mounting of a safety relief valve for an isolable economizer?

Reply (1): No.

Question (2): Does Figure PG-58.3.1(b) dictate that the safety relief valve for an economizer be located at its outlet?

Reply (2): No.

Interpretation: I-13-07

Subject: PW-43.1.2 (2010 Edition)
Date Issued: March 19, 2013
File: 12-1557

Question: When determining the allowable load per unit length of attachment on a tube bend, is the following the intent of PW-43.1.2:

(a) that the allowable unit load in tension determined by using the outside diameter of the tube be increased by the tension unit load for a tube having an outside diameter equivalent to the outside diameter of the bend and having a wall thickness the same as that of the tube bend

(b) that the allowable unit load in compression determined by using the outside diameter of the tube be increased by the compressive unit load for a tube having an outside diameter equivalent to the outside diameter of the bend and having a wall thickness the same as that of the tube bend?

Reply: Yes; see A-74.

Interpretation: I-13-08

Subject: PG-106.5, Stamping of Boilers; PG-111, Location of Stamping (2010 Edition)
Date Issued: March 19, 2013
File: 13-159

Question (1): If a boiler meets the conditions specified by PG-106.5, may a stamped metallic nameplate be used to provide the data required by PG-106 in lieu of stamping the pressure-retaining material directly?

Reply (1): Yes.

Question (2): If a boiler meets the conditions specified by PG-111.9, may the location of boiler stamping differ from the locations described by PG-111.1 through PG-111.8, provided the Data Report Form records the location of the required stamping per PG-111.9?

Reply (2): Yes.

Interpretation: I-13-09

Subject: PW-39; Table PW-39-3; Figure PW-16.1, Illustration (z); Postweld Heat Treatment Requirements (2010 Edition)

Date Issued: March 19, 2013

File: 13-264

Question (1): Are the tube to header welds illustrated by Figure PW-16.1, illustration (z) considered circumferential butt welds?

Reply (1): No.

Question (2): Do the postweld heat treatment exemptions for circumferential butt welds noted in Table PW-39-3 apply to the welds illustrated by Figure PW-16.1, illustration (z)?

Reply (2): No.

Interpretation: I-13-10

Subject: PG-110, Stamping of Boiler Pressure Relief Valves (2010 Edition)

Date Issued: May 31, 2013

File: 13-102

Question: Must the pressure relief valves installed on a Section I vessel be stamped in accordance with PG-110?

Reply: Yes.

Interpretation: I-13-11

Subject: PW-52, PW-52.3 (2010 Edition), Code Case 2235

Date Issued: May 31, 2013

File: 13-317

Question (1): An ultrasonic examination of a weld is performed in accordance with PW-52. May the acceptance criteria of Code Case 2235 be applied in lieu of that provided in PW-52.3?

Reply (1): No.

Question (2): An ultrasonic examination of a weld is performed in accordance with Code Case 2235. May the acceptance criteria of PW-52.3 be applied in lieu of that provided in Code Case 2235?

Reply (2): No.

Interpretation: I-13-12

Subject: PG-105, PG-106, Symbol Stamping on Nameplate (2010 Edition With 2011 Addenda)
Date Issued: June 3, 2013
File: 13-329

Question: In accordance with PG-106, if a power boiler is postweld heat treated as per the requirements of PW-39, is it mandatory that the HT symbol be stamped on the ASME nameplate?

Reply: No.

Interpretation: I-13-13

Subject: PG-110(e)(2) (2010 Edition)
Date Issued: June 28, 2013
File: 11-1459

Question: Is it the intent of PG-110(e)(2) to require the capacity marking requirements per PG-69.4 for power-actuated pressure relieving valves?

Reply: Yes.

Interpretation: I-13-14

Subject: PW-16.6(a) and Figure PW-16.1, Sketch (z-2) (2013 Edition)
Date Issued: August 20, 2013
File: 13-1202

Question (1): Should there be a through-hole at Section 2-2 in Figure PW-16.1, sketch (z-2)?

Reply (1): Yes. An Errata will be issued to revise this sketch.

Question (2): May the tube extend into the shell, drum, or header beyond its inside surface in Figure PW-16.1, sketch (z-2)?

Reply (2): Yes. Figure PW-16.1 is not all-inclusive, and only some of the acceptable types that may be used are shown.

Interpretation: I-13-15

Subject: PG-61.5, Feed Water Supply for a Steam Generator With No Fixed Water Level (2010 Edition With 2011 Addenda)

Date Issued: August 28, 2013

File: 13-782

Question (1): In PG-61.5 is “maximum designed steam capacity” only specified as a value to be used in calculating the maximum sustained pressure required at the boiler inlet?

Reply (1): Yes.

Question (2): Does PG-61.5 specify a pump flow rate?

Reply (2): No.

Question (3): Does PG-61.5 mandate that the coincident conditions of maximum steam flow rate and maximum sustained pressure have to be met by the source feeding the boiler?

Reply (3): No.

Interpretation: I-13-16

Subject: Table A-360 (2010 Edition With 2011 Addenda) and Edition of ASME B31.1 Governing Boiler External Piping

Date Issued: August 28, 2013

File: 13-886

Question (1): An owner contracts both the boiler proper and the boiler external piping at the same time with the same Certificate Holder. Does Table A-360 in the edition of Section I applicable to the boiler proper govern the edition of ASME B31.1 that is applicable to boiler external piping?

Reply (1): Yes.

Question (2): An owner contracts both the boiler proper and the boiler external piping at the same time with the same Certificate Holder. The boiler Manufacturer then subcontracts the boiler external piping to another Certificate Holder. Does Table A-360 in the edition of Section I applicable to the boiler proper govern the edition of ASME B31.1 that is applicable to boiler external piping?

Reply (2): Yes.

Question (3): An owner contracts the boiler proper with a Certificate Holder and, at a later date, contracts the boiler external piping. If, at the time of the boiler external piping contract, a later edition of Section I has been issued than what governs the boiler proper, do the parties involved have the option of using either the edition of ASME B31.1 listed in Table A-360 in the edition of Section I applicable to the boiler proper or that listed in the later edition of Section I?

Reply (3): Yes; see Interpretation I-04-21.

Interpretation: I-13-17

Subject: Code Case 2235-10
Date Issued: August 29, 2013
File: 13-977

Question: Does the designation of $2a$ in paragraph (i)(3)(b) of Code Case 2235-10 mean that the acceptance criteria a for subsurface flaws found in Tables 1 through 3 should be multiplied by 2 to derive the value of $2a$ found in paragraph (i)(3)(b) and in Figures 1 through 5 for subsurface flaws?

Reply: Yes.

Interpretation: I-13-18

Subject: PG-32.3.3 (2010 Edition With 2011 Addenda)
Date Issued: August 29, 2013
File: 13-1086

Question: In the parenthetical sentence in PG-32.3.3, does the referenced nozzle diameter refer to the diameter of the finished opening, d , as defined in PG-33.3?

Reply: Yes.

Interpretation: I-13-19

Subject: PG-112.2.8 and Form P-7 (2013 Edition)
Date Issued: December 31, 2013
File: 13-1063

Question: If a replacement pressure relief valve is installed on an “S” stamped boiler differing from that identified on the completed Manufacturer’s Data Report(s), is the boiler Section I compliant?

Reply: After all requirements of Section I have been met and the necessary data reports have been signed, alterations are beyond the scope of Section I.

Interpretation: I-13-20

Subject: PW-40.1, Repair of Defects (2010 Edition)
Date Issued: December 31, 2013
File: 13-1212

Question (1): When visual examination of a weld is performed on Section I components, does Section I limit the visual examination to be performed with only the unaided eye?

Reply (1): No.

Question (2): After a boiler is completed and accepted, are in-service examinations covered by Section I?

Reply (2): No.

Interpretation: I-13-21

Subject: PEB-8.3 (2013 Edition)
Date Issued: February 25, 2014
File: 13-1962

Question (1): Is it the intent of PEB-8.3 to prohibit the use of a miscellaneous pressure part per PG-11 as a manufacturer's standard pressure part?

Reply (1): No.

Question (2): Is it the intent of PEB-8.3 to prohibit the use of pressure parts manufactured by a Section VIII, Division 1, "U" Certificate Holder when the element support plate is designed per the rules of Section VIII, Division 1, Mandatory Appendix 41 and documented with a U-2 Partial Data Report?

Reply (2): No.

Interpretation: I-13-22

Subject: PW-39, Table PW-39-4, and PWHT Exemptions for Tube-to-Header Welds (2013 Edition)
Date Issued: February 25, 2014
File: 13-2225

Question: Does Table PW-39-4 provide an exemption from postweld heat treatment for pressure part attachments such as nozzles and other connections welded to shells, drums, and headers?

Reply: No.

Interpretation: I-13-23

Subject: Qualification of Written NDE Procedures (2013 Edition)
Date Issued: June 3, 2014
File: 14-252

Question: Is it mandatory that written nondestructive examination procedures that are required by Section I be qualified in accordance with Section V, Article 1, T-150(d)?

Reply: No.

Interpretation: I-13-24

Subject: PG-113.1, Master Data Report Form (2013 Edition)
Date Issued: June 3, 2014
File: 14-426

Question (1): Are the details for the feed, steam, blowoff, pressure relief valve, manhole and handhole openings required to be shown on Form P-3A, Engineering-Contractor Data Report for a Complete Boiler Unit?

Reply (1): No.

Question (2): When using Form P-3A, Engineering-Contractor Data Report for a Complete Boiler Unit, should the appropriate Manufacturer's Data Report Forms be used to document the details for the feed, steam, blowoff, pressure relief valve, manhole and handhole openings?

Reply (2): Yes.

Interpretation: I-13-25

Subject: Feedwater From a Common Source, PG-61 and Figure PG-58.3.1(a) (2013 Edition)
Date Issued: June 3, 2014
File: 14-437

Question: When two boilers firing gaseous and/or liquid fuel are
(a) each provided with a means for shutting off the heat input to the boiler before the water level reaches the lowest permissible level in the boilers as required by PG-61.2

(b) both fed from a common source of feedwater complying with PG-61.1

(c) both valved as shown in Figure PG-58.3.1(a) for "two or more boilers fed from a common source"

does Section I define the number of feedwater pumps to be supplied?

Reply: No.

Interpretation: I-15-01

Subject: PW-16.5 (2013 Edition)

Date Issued: July 9, 2014

File: 14-907

Question: PW-16.5 directs that the groove weld, t_w , shall be not less than the thickness of Schedule 160 pipe (ASME B36.10M). However, according to the table that the Code specified, Schedule 160 does not exist for pipes smaller than $\frac{1}{2}$ in. For these sizes ($\frac{1}{8}$ in., $\frac{1}{4}$ in., $\frac{3}{8}$ in.), Schedule 80 exists. Can Schedule 80 pipe thickness be accepted for t_w in these sizes (instead of Schedule 160)?

Reply: No.

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	I-92-53	BC92-402	260		I-13-18	13-1086	479
	I-98-33	BC99-462	374	Figure PG-32	I-07-13	08-1561	450
PG-16	I-86-79	BC87-323	156	PG-32.1.1	I-92-14	BC91-532	235
PG-16.1	I-10-25	10-2085	467	PG-32.1.2	I-92-44	BC91-532R	257
PG-16.3	I-10-30	12-165	469		I-04-08	BC03-1262	420
PG-16.5	I-98-28	BC99-228	367	PG-32.1.3.1	I-07-13	08-1561	450
	I-04-02	BC03-284	418	PG-33	I-83-61	BC83-302	49
PG-19	I-10-12	10-554	459	PG-36	I-92-13	BC91-531	235
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PG-22	I-83-02	BC80-346	7		I-92-34	BC91-531R	253
	I-86-51	BC86-314	136		I-92-37	BC92-017A	254
	I-86-61	BC87-182	145		I-92-45	BC92-017A	257
	I-04-28	BC05-452	433	Figure PG-36	I-01-01	BC00-413	383
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	I-95-02	BC94-446	299		I-86-46	BC86-473	134
PG-38	I-83-61	BC83-302	49		I-95-18	BC95-244	315
	I-89-47	BC89-070	201		I-04-21	BC04-125	427
	I-89-49	BC90-007	202		I-10-08	09-1780	455
	I-95-37	BC96-457	337	PG-58.3.1	I-83-110	BC84-099	90
PG-38.4	I-89-69	BC91-058	220		I-86-15	BC85-128	109
	I-95-19	BC95-248	316		I-89-06	BC88-159	167
PG-39	I-10-07	09-1496	454		I-89-13	BC88-154	170
PG-39.5	I-83-25	BC82-267	17	Figure PG-58.3.1	I-10-20	10-376	465
PG-39.5.1	I-92-89	BC94-016	289		I-13-06	12-1509	475
PG-39.7	I-83-89	BC84-020	73	PG-58.3.2	I-86-12	BC85-462	103
	I-01-29	BC02-4028	407		I-86-80	BC87-402	156
PG-42	I-83-91	BC80-685	75		I-92-90	BC94-019	290
	I-83-11	BC84-167	91		I-07-02	BC06-670	439
	I-86-21	BC85-462A	112		I-10-22	10-1263	466
	I-86-27	BC85-072	115	PG-58.3.3	I-83-76	BC83-333	62
	I-95-38	BC96-459	338	PG-58.3.4	I-01-30	BC02-4032	407
	I-10-06	09-1087	454		I-01-31	BC02-4033	408
	I-10-07	09-1496	454	PG-58.3.5	I-07-14	09-153	453
PG-42.1	I-83-24	BC82-266	17	PG-58.3.6	I-83-53	BC83-247	45
	I-83-07	BC77-762	10		I-86-22	BC86-064	112
	I-89-02	BC88-059	165	PG-59	I-95-23	BC95-451	317
PG-42.3	I-10-07	09-1496	454		I-95-25	BC95-495	323
PG-42.4	I-10-07	09-1496	454		I-98-36	BC99-552	375
PG-42.4.4	I-92-28	BC92-048	246		I-01-27	BC02-3624	406
PG-42.4.7	I-10-10	09-336	459	PG-59.2	I-86-54	BC87-098	137
PG-43	I-01-33	BC01-766	411	PG-59.3	I-83-14	BC81-708	13
PG-44	I-83-39	BC82-504	31		I-89-36	BC86-316	191
	I-89-26	BC88-153	186	PG-59.3.2	I-83-43	BC83-088	33
PG-44.3	I-89-59	BC88-181	211	PG-59.3.6	I-95-23	BC95-451	317
PG-46	I-86-14	BC84-639	109	PG-59.4	I-83-70	BC83-583	54
	I-95-34	BC96-524	331		I-92-27	BC92-016	246
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	I-92-83	BC93-625	282		I-04-38	BC06-0087	438
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	I-89-67	BC90-782	219	PG-73.6.3	I-04-24	BC04-1059	428
	I-95-22	BC95-445	317	PG-75	I-98-04	BC97-429	358
	I-98-25	BC99-225C	366	PG-78	I-86-68	BC87-400	152
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	I-92-43	BC92-300	257		I-13-19	13-1063	479
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	I-10-08	09-1780	455	visual examinations	I-13-20	13-1212	480
qualification record	I-01-23	BC02-3466	404	welded joints	I-89-62	BC90-514	212
reinforcement	I-92-84	BC93-681	283	weld bead width	I-10-14	10-390	460
repair welds	I-86-68	BC87-400	152	weld thickness	I-89-71	BC90-866	221
replacement of reduced net	I-98-11	BC97-484	350		I-04-36	BC06-0188	437
section	I-98-13	BC98-157	351		I-10-01	09-97	453
restrictions on use of	I-95-12	BC94-644	308		I-13-04	12-1654	471
seal/tack	I-83-46	BC80-173	35		I-15-01	14-907	482
	I-83-66	BC83-116	53	Working Pressure			
	I-86-76	BC85-486	155	maximum allowable	I-89-68	BC90-606	220
single fillet welds	I-92-86	BC93-709	284				
spiral welds	I-89-63	BC90-607	212				