

ASME Boiler and Pressure Vessel Code

SECTION IV

INTERPRETATIONS

Volume 41

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INTERPRETATIONS

NO. 41 — SECTION IV

Replies to Technical Inquiries
January 1, 1997 through June 30, 1997

FOREWORD

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SECTION IV

<u>Subject</u>	<u>Interpretation</u>	<u>File No.</u>
HG-530.2, Marking Requirements for Cast Iron Boilers	IV-95-24	BC97-052
HG-530.2(d), Nameplates	IV-95-25	BC95-236
HLW-101, Service Restriction and Exception	IV-95-26	BC96-502
HLW-502.2(a), Test Gages	IV-95-27	BC96-187

Interpretation: IV-95-24

Subject: HG-530.2, Marking Requirements for Cast Iron Boilers

Date Issued: March 19, 1997

File: BC97-052

Question (1): In HG-530.2(a)(5), is it permissible to omit the shop-assembler's name?

Reply (1): Yes.

Question (2): In HG-530.2(a)(2) and Fig. HG-530.4, is it permissible to also show the MAWP for Canada?

Reply (2): Yes.

Interpretation: IV-95-25

Subject: HG-530.2(d), Nameplates

Date Issued: June 9, 1997

File: BC95-236

Question (1): Is it the responsibility of the cast iron boiler manufacturer to permanently attach the nameplate to the casing when the boiler is assembled by the manufacturer?

Reply (1): Yes.

Question (2): Is it the responsibility of the cast iron boiler manufacturer to permanently attach the nameplate to the casing when using an adhesive nameplate that meets the requirements of Appendix 3 and when the boiler is assembled by the manufacturer?

Reply (2): Yes.

1998 Edition

Available July 1, 1998

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ASME Boiler and Pressure Vessel Code

SECTION IV

INTERPRETATIONS

Volume 40

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INTERPRETATIONS

NO. 40 — SECTION IV

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July 1, 1996 through December 31, 1996

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SECTION IV

<u>Subject</u>	<u>Interpretation</u>	<u>File No.</u>
HG-602, Internal Siphon	IV-95-21	BC95-479
HG-614 and Fig. HG-703.2 — Low-Water Cutoff	IV-95-23	BC96-361
HLW-200	IV-95-20	BC94-627
Materials — Table HF-300.1	IV-95-22	BC96-188

Interpretation: IV-95-20

Subject: HLW-200

Date Issued: July 1, 1996

File: BC94-627

Question: May a water heater or storage tank be built to Part HLW and Code stamped if the entire interior of the vessel is covered with a minimum of 0.005 in. nickel applied by the thermal spray process, then the entire interior lined with polyamine epoxy?

Reply: Yes, provided all the conditions of the use of amine or polyamine epoxy linings as described in HLW-200(f) are met.

Interpretation: IV-95-21

Subject: HG-602, Internal Siphon

Date Issued: October 22, 1996

File: BC95-479

Question (1): Does the use of a gage incorporating an internal siphon meet the requirement of HG-602?

Reply (1): Yes.

Question (2): Does the internal siphon have to meet the size requirements for external siphon connections as specified in HG-602?

Reply (2): No.

Interpretation: IV-95-22

Subject: Materials — Table HF-300.1

Date Issued: December 31, 1996

File: BC96-188

Question: In the 1995 Edition of Section II, SA-515 Grade 55 is no longer included. However, in Section IV, Table HF-300.1 still lists SA-515 Grade 55 and gives an allowable stress value. Is it still permitted to use SA-515 Grade 55 boiler plate in Section IV construction?

Reply: Yes. Please refer to Appendix A of Section II, Part A.

Interpretation: IV-95-23

Subject: HG-614 and Fig. HG-703.2 — Low-Water Cutoff

Date Issued: December 30, 1996

File: BC96-361

Question: Does HG-614 or Fig. HG-703.2 require a low water cutoff of a specific type in the locations shown in Fig. HG-703.2?

Reply: No.

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HG-312 and HF-204.2(c), Requirements for the Minimum Wall Thickness of SA-249, 316L Stainless Steel Fire Tubes Attached by Welding to Tubesheets. HG-360.2(d), Requirements for Tubesheets and Tube Attachments	IV-95-15	BC95-178
HG-614 and HG-615, Requirements for Low-Water Fuel Cutoff	IV-95-14	BC95-224

Interpretation: IV-95-14

Subject: HG-614 and HG-615; Requirements for Low-Water Fuel Cutoff

Date Issued: July 31, 1995

File: BC95-224

Question: Does Section IV require a low-water cutoff on an assembled system, modular hot water heating boiler, if the system has a heat input greater than 400,000 Btu/hr but each separate module is less than 400,000 Btu/hr?

Reply: Yes.

Interpretation: IV-95-15

Subject: HG-312 and HF-204.2(c); Requirements for the Minimum Wall Thickness of SA-249, 316L Stainless Steel Fire Tubes Attached by Welding to Tubesheets. HG-360.2(d); Requirements for Tubesheets and Tube Attachments

Date Issued: October 31, 1995

File: BC95-178

Question (1): Does HG-312.2 require the addition of 0.04 in., to the required thickness determined by the procedures of HG-312.2 as an allowance for rolling and structural stability for tubes that are welded?

Reply (1): No.

Question (2): Are either Fig. HF-312.1 or HG-312.2 applicable to SA-249 TP316L stainless steel tubing?

Reply (2): No. Section IV does not contain external pressure charts for stainless steel materials. However, the external pressure charts of Section II, Part D, may be used to determine A and B factors for stainless steel materials permitted by Section IV, provided a temperature of 500°F is used in selecting the B factor and the equation provided in HG-312.3 Step 6 is used to calculate the allowable pressure.

Question (3): Is the minimum required tube wall thickness for stainless tubes subjected to external pressure the greater of the thickness required by HG-312.3, determined as described in Question (1) and Question (2)?

Reply (3): Yes.

Question (4): HG-360.2(d) states that holes may be punched full sized and tubes may be attached by fillet welding from one side only without expanding if the tubesheet thickness does not exceed $\frac{5}{16}$ in. Is the $\frac{5}{16}$ in. thickness referred to in HG-360.2(d) a nominal thickness?

Reply (4): Yes.



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HG-315.2(a)(3)	IV-95-11	BC95-041
HG-530.1	IV-95-10	BC95-033
HG-530.2	IV-95-07	BC94-537
HG-605 and HG-613	IV-95-06	BC94-469
HG-703.2	IV-95-13	BC95-103
HLW-100(a)(4) and HLW-200(d) and (f)	IV-95-12	BC94-628
Stamping	IV-95-08	BC94-538

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Interpretation: IV-95-06

Subject: Section IV, HG-605 and HG-613

Date Issued: January 23, 1995

File: BC94-469

Question: Does para. HG-605 requiring two pressure controls and para. HG-613 requiring two temperature controls apply to all sizes of boilers?

Reply: Yes.

Interpretation: IV-95-07

Subject: Section IV, HG 530.2, Marking Requirements for Cast Iron Boilers

Date Issued: January 23, 1995

File: BC94-537

Question: Is it permissible to use either the assembler's name or abbreviation of that name on Cast Iron Sections, when the discretion of when to use the name or abbreviation is described in the Quality Control Manual?

Reply: Yes.

Interpretation: IV-95-08

Subject: Section IV, Stamping

Date Issued: January 23, 1995

File: BC94-538

Question: May the Code Symbol Stamp and other pertinent information other than MAWP be physically stamped on grey cast iron (SA-278, Class 25) components or parts after the casting operation is completed?

Reply: No.

Interpretation: IV-95-09

Subject: Section IV, paras. HG-312.1 and HG-603

Date Issued: March 13, 1995

File: BC95-032

Question: Does HG-603 prohibit the Manufacturer of a horizontal firetube boiler from establishing the "lowest permissible water level" below the top of the top row of tubes?

Reply: No.

Interpretation: IV-95-10

Subject: Section IV, HG-530.1

Date Issued: March 13, 1995

File: BC95-033

Question (1): Would the supply and return of a common header located on the side of a copper finned watertube type boiler be considered the same as "outlet drum" as in HG-530.1(b)(3)?

Reply (1): Yes.

Question (2): If the answer to question (1) is yes, would locating the original ASME Code symbol stamp and required data on the bottom of this supply and return header facing downward toward the ground be acceptable with HG-530.1(b)(3)?

Reply (2): Yes.

Interpretation: IV-95-11

Subject: Section IV, para. HG-315.2(a)(3)

Date Issued: March 13, 1995

File: BC95-041

Question: Should the minimum thickness of 0.061 in. specified in para. HG-315.2(a)(3) be measured before rolling?

Reply: Yes.

Interpretation: IV-95-12

Subject: Section IV, HLW-100(a)(4) and HLW-200(d) and (f)

Date Issued: June 7, 1995

File: BC94-628

Question (1): May a water heater or storage tank be stamped HLW if the entire interior of the vessel is lined with a minimum of 0.005 in. copper applied by the thermal spray method?

Reply (1): Yes, as permitted by Code Case 2163.

Question (2): May a water heater or storage tank be stamped HLW if the thermally sprayed copper lining is then lined with a minimum of 0.003 in. of polyamine epoxy to HLW-200(f)?

Reply (2): Yes.

Question (3): If the answer to Question (2) above is yes, is the polyamine epoxy counted as the Code lining which goes on the Manufacturer's Data Report?

Reply (3): Yes.

Interpretation: IV-95-13

Subject: Section IV, HG-703.2

Date Issued: June 7, 1995

File: BC95-103

Question: Is it required to install a "Hartford Loop" on the return piping of a gravity return steam heating boiler when two low-water cutoffs are installed?

Reply: Yes, HG-703.2 requires that the return piping be attached so as to form a loop substantially as shown in Fig. HG-703.1, commonly known as a "Hartford Loop," regardless of the number of low-water cutoffs to be installed.

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