| DOT Specification [1] | Insulation | Bursting pressure (psig) | Minimum plate thickness (inches) | Test pressure (psig) | Bottom outlet | Bottom washout | References (179.201 - ***) |
|---|---|---|---|---|---|---|---|
| 103A–ALW | Optional | 240 | 1/2 | 60 | No | Optional. | |
| 103AW | Optional | 240 | 179.201–2 | 60 | No | Optional. | |
| 103ALW | Optional | 240 | 1/2 | 60 | Optional | Optional | 6(a). |
| 103ANW | Optional | 240 | 179.201–2 | 60 | No | Optional | 6(d). |
| 103BW | Optional | 240 | 179.201–2 | 60 | No | No | 6(b), 3. |
| 103CW | Optional | 240 | 179.201–2 | 60 | No | No | 6(c), 4,5. |
| 103DW | Optional | 240 | 179.201–2 | 60 | Optional | Optional | 6(a), 6(c), 4, 5. |
| 103EW | Optional | 240 | 179.201–2 | 60 | No | Optional | 6(c), 4, 5. |
| 103W | Optional | 240 | 179.201–2 | 60 | Optional | Optional | 6(a). |
| 104W | Yes | 240 | 179.201–2 | 60 | Optional | Optional | 6(a). |
| 111A60ALW1 | Optional | 240 | 1/2 | 60 | Optional | Optional | 6(a). |
| 111A60ALW2 | Optional | 240 | 1/2 | 60 | No | Optional. | |
| 111A60W1 | Optional | 240 | 7/16 | 60 | Optional | Optional | 6(a). |
| 111A60W2 | Optional | 240 | 7/16 | 60 | No | Optional. | |
| 111A60W5 | Optional | 240 | 7/16 | 60 | No | No | 3, 6(b). |
| 111A60W6 | Optional | 240 | 7/16 | 60 | Optional | Optional | 4, 5, 6(a), 6(c). |
| 111A60W7 | Optional | 240 | 7/16 | 60 | No | No | 4, 5, 6(a). |
| 111A100ALW1 | Optional | 500 | 5/8 | 100 | Optional | Optional | 6(a). |
| 111A100ALW2 | Optional | 500 | 5/8 | 100 | No | Optional. | |
| 111A100W1 | Optional | 500 | 7/16 | 100 | Optional | Optional | 6(a). |
| 111A100W2 | Optional | 500 | 7/16 | 100 | No | Optional. | |
| 111A100W3 | Yes | 500 | 7/16 | 100 | Optional | Optional | 6(a). |
| 111A100W4 | Yes (see 179.201–11). | 500 | 7/16 | 100 | No | No | 6(a), 8, 10. |
| 111A100W5 | Optional | 500 | 7/16 | 100 | No | No | 3. |
| 111A100W6 | Optional | 500 | 7/16 | 100 | Optional | Optional | 4, 5, 6(a) and 6(c). |
| 111A100W7 | Optional | 500 | 7/16 | 100 | No | No | 4, 5, 6(c). |

[1] Tanks marked ''ALW'' are constructed from aluminum alloy plate; ''AN'' nickel plate; ''CW,'' ''DW,'' ''EW,'' ''W6,'' and ''W7'' high alloy steel or manganese-molybdenum steel plate; and those marked ''BW'' or ''W5'' must have an interior lining that conforms to § 179.201–3.

[Amdt. 179–52, 61 FR 28680, June 5, 1996, as amended by 66 FR 45390, Aug. 28, 2001]

## § 179.201–2 Minimum plate thickness.

(a) The minimum plate thickness, after forming, must be as follows:

| Inside diameter of tanks | Bottom sheets | Shell sheets | Expansion dome sheets | 2:1 ellipsoidal heads | 3:1 ellipsoidal and dished tank heads | Expansion dome heads | Interior compartment heads |
|---|---|---|---|---|---|---|---|
| | Inches | | | | | | |
| 60 inches or under | 7/16 | 1/4 | 5/16 | 7/16 | 1/2 | 5/16 | 5/16 |
| Over 60 to 78 inches | 7/16 | 5/16 | 5/16 | 7/16 | 1/2 | 5/16 | 5/16 |
| Over 78 to 96 inches | 1/2 [1] | 3/8 | 5/16 | 7/16 | 1/2 | 5/16 | 3/8 |
| Over 96 to 112 inches | 1/2 [1] | 7/16 | 5/16 | 7/16 | 9/16 | 5/16 | 7/16 |
| Over 112 to 122 inches | 1/2 | 1/2 | 5/16 | 1/2 | 5/8 | 5/16 | 1/2 |

[1] May be reduced to 7/16 inch when approved steels having tensile strength of 65,000 psi or higher are used.

(b) [Reserved]

[29 FR 18995, Dec. 29, 1964. Redesignated at 32 FR 5606, Apr. 5, 1967, and amended by Amdt. 179–10, 36 FR 21352, Nov. 6, 1971; 67 FR 61016, Sept. 27, 2002]

## § 179.201–3 Lined tanks.

(a) *Rubber-lined tanks.* (1) Each tank or each compartment thereof must be lined with acid-resistant rubber or other approved rubber compound vulcanized or bonded directly to the metal tank, to provide a nonporous laminated lining, at least 5/32-inch thick, except overall rivets and seams formed by riveted attachments in the lining must be double thickness. The rubber lining must overlap at least 1½ inches at all edges which must be straight and be