

**§ 179.101-1 Individual specification requirements.**

In addition to §179.100, the individual specification requirements are as follows:

<b>DOT specification</b>	<b>Insulation</b>	<b>Bursting pressure (psig)</b>	<b>Minimum plate thickness (inches)</b>	<b>Test pressure (psig)</b>	<b>Manway cover thickness</b>	<b>Bottom outlet</b>	<b>Bottom washout</b>	<b>Reference (179.***)</b>
105A100ALW	Yes	500	5/8	100	2 1/2	No	No	
105A200ALW	Yes	500	5/8	200	2 1/2	No	No	
105A300ALW	Yes	750	5/8	300	2 5/8	No	No	
105A100W	Yes	500	3/16	100	2 1/4	No	No	
105A200W	Yes	500	3/16	200	2 1/4	No	No	
105A300W	Yes	750	1 11/16	300	7 1/4	No	No	
105A400W	Yes	1,000	1 11/16	400	7 1/4	No	No	
105A500W	Yes	1,250	1 11/16	500	2 1/4	No	No	102-1, 102-2
105A600W	Yes	1,500	1 11/16	600	2 1/4	No	No	102-4, 102-17
109A100ALW	Optional	500	5/8	100	2 1/2	No	Optional	
109A200ALW	Optional	500	5/8	200	2 1/2	No	Optional	
109A300ALW	Optional	750	5/8	300	2 5/8	No	Optional	
109A300W	Optional	500	1 11/16	300	2 1/4	No	Optional	
112A200W	Optional <sup>4</sup>	500	3,5/16	200	2 1/4	No	No	
112A340W	Optional <sup>4</sup>	850	1 11/16	340	2 1/4	No	No	
112A400W	Optional <sup>4</sup>	1,000	1 11/16	400	2 1/4	No	No	
112A500W	Optional <sup>4</sup>	1,250	1 11/16	500	2 1/4	No	No	
114A340W	Optional <sup>4</sup>	850	1 11/16	340	6	Optional	Optional	103
114A400W	Optional <sup>4</sup>	1,000	1 11/16	400	6	Optional	Optional	103
120A200ALW	Yes	500	5/8	200	2 1/2	Optional	Optional	103
120A100W	Yes	500	3/16	100	2 1/4	Optional	Optional	103
120A200W	Yes	500	3/16	200	2 1/4	Optional	Optional	103
120A300W	Yes	750	1 11/16	300	2 1/4	Optional	Optional	103
120A400W	Yes	1,000	1 11/16	400	2 1/4	Optional	Optional	103
120A500W	Yes	1,250	1 11/16	500	2 1/4	Optional	Optional	103

<sup>1</sup>When steel of 65,000 to 81,000 p.s.i. minimum tensile strength is used, the thickness of plates shall be not less than 5/8 inch, and when steel of 81,000 p.s.i. minimum tensile strength is used, the minimum thickness of plate shall be not less than 9/16 inch.

<sup>2</sup>When approved material other than aluminum alloys are used, the thickness shall be not less than 2 1/4 inches.

<sup>3</sup>When steel of 65,000 p.s.i. minimum tensile strength is used, minimum thickness of plates shall be not less than 1/2 inch.

<sup>4</sup>Tank cars not equipped with a thermal protection or an insulation system used for the transportation of a Class 2 (compressed gas) material must have at least the upper two-thirds of the exterior of the tank, including manway nozzle and all appurtenances in contact with this area, finished with a reflective coat of white paint.

<sup>5</sup>For inside diameter of 87 inches or less, the thickness of plates shall be not less than 1/2 inch.

<sup>6</sup>See AAR Specifications for Tank Cars, appendix E, E4.01 (IBR, see §171.7 of this subchapter), and §179.103–2.

<sup>7</sup>When the use of nickel is required by the lading, the thickness shall not be less than two inches.

[Amdt. 179–52, 61 FR 28679, June 5, 1996 as amended at 66 FR 45390, Aug. 28, 2001; 68 FR 75760, Dec. 31, 2003]