

SEMI F66-1101

SPECIFICATION FOR PORT MARKING AND SYMBOL OF STAINLESS STEEL VESSELS FOR LIQUID CHEMICALS

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1 Purpose

1.1 This Document specifies port marking and symbol of stainless steel vessels for liquid chemicals used in semiconductor and flat panel display manufacturing equipment and liquid chemical distribution facilities.

2 Scope

2.1 This Document covers stainless steel vessels with tubes that penetrate into the vessels as inlets or outlets of liquid chemical to/from the vessels.

2.2 A vessel which uses coupling (quick coupling) at its tube end (port) is excepted from the scope.

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3 Referenced Standards and Documents

3.1 None.

4 Terminology

4.1 Definitions

4.1.1 *dip tube* — a piece of tube which penetrates into a vessel as an inlet or outlet of liquid chemical to/from the vessel.

4.1.2 *liquid chemical* — organic or inorganic liquid chemical used for semiconductor or flat panel display manufacturing.

4.1.3 *port* — an end of a tube attached to a vessel.

5 Requirements for Port Marking

5.1 The dip tube port shall be marked as 'DIP'. If more than one dip tube port exists on a vessel, each port shall be marked as 'DIP'.

5.2 *Additional Marking* — A description to identify multiple ports may be added to the dip port marking such as DIP-1 or DIP (1).

5.3 *Location of Marking* — 'DIP' marking shall be located where it will clearly identify the dip tube port. If more than one dip tube ports exist on a vessel, each marking shall be located so that the corresponding port is clearly identified.

5.4 *Method of Marking* — The marking shall be engraved, etched, or labeled properly so that the 'DIP' marking shall not be removed. Color of the marking is optional.

5.5 *Size of Marking* — The marking shall be sized so that it is clearly readable.

6 Requirements for Symbol

6.1 A symbol illustrated in Figure 1 shall be used to draw a stainless steel vessel with a dip tube. A dip tube shall be identified in the symbol as a line penetrating into a rectangle.

6.2 If more than one dip tube exists on a vessel, the symbol shall have the same number of lines which correspond to the dip tubes.

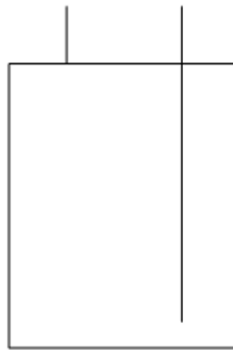


Figure 1
Symbol for Stainless Steel Vessel with a Dip Tube

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