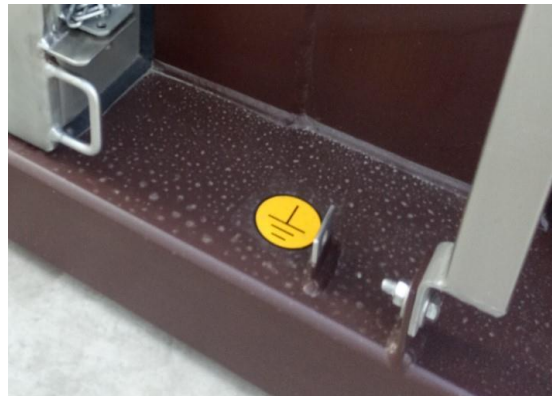


## Top Filling

According to the local law and the actual configuration of the tank and the characteristics of the medium installed, combined with the specific operating conditions, users can choose the appropriate ways from the following filling or unloading methods:

### 1. Top Filling via Manhole

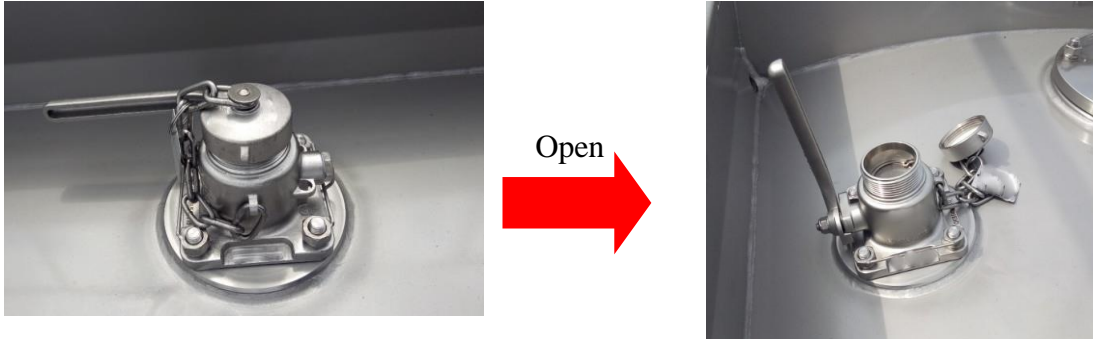
1.1 Connect the earth grounding cable to earth plate.



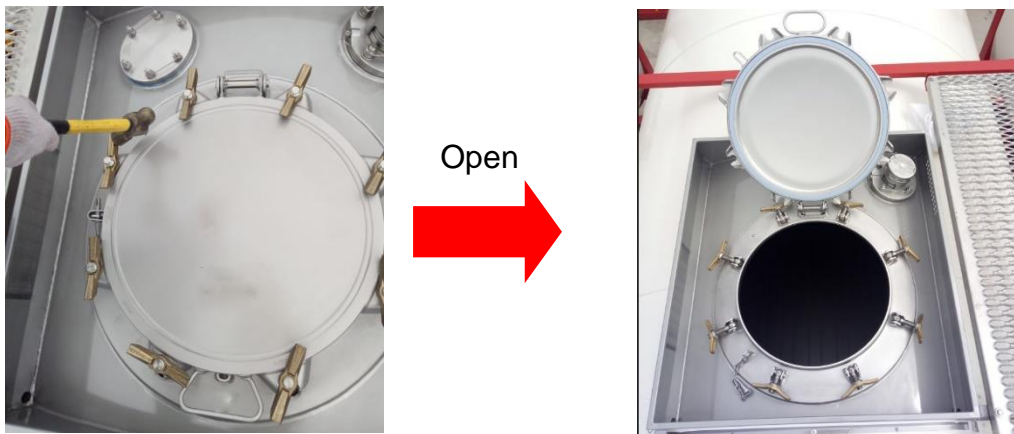
1.2 Close all the bottom valves and check that the terminal connection is in a good operational condition.



1.3 Remove cap or blind flange or other cover (the picture shows cap) of airline valve, for tank venting.



1.4 Open manlid using supplier open/close tool, or with a copper hammer/mallet.



1.5 Insert hose into tank from manhole, ensuring that the discharge hose is as close as possible to the bottom of the tank. Secure hose to prevent possible whiplash. Open the valve on hose for filling. Check the filling process frequently. For easily volatile products, the filling rate is to be controlled.

1.6 Fill tank to required level. Close the valve on hose. Drain hose and remove from tank.

1.7 Close manlid using supplier open/close tool, or with a copper hammer/mallet, control torque setting.

1.8 Close airline valve. Fit cap or blind flange or other cover and retighten.

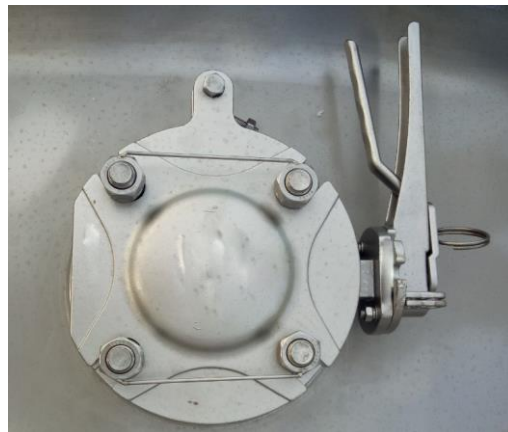
1.9 Remove the earth grounding cable from the earth plate.



**2.3.1 Remove cap or blind flange or other cover of airline valve. Connect hose to airline valve.**

**2.3.2 Open airline valve and external valve on hose for vapour return.**

2.4 Remove top valve blind flange or quick coupling or other cover etc(the picture shows blind flange). Connect hose ensuring connection is correct and tight. Secure hose to prevent possible whiplash.



2.5 Open top valve and external valve on hose for filling. Check the filling process frequently.

2.6 Fill tank to required level. Close the external valve on filling pipe. Drain hose and close the top valve and remove hose from tank. Fit blind flange or quick coupling or other cover and tighten.

2.7 Close airline valve. Fit cap or blind flange or other cover and retighten.

2.8 Remove the earth grounding cable from the earth plate.