

SAFE-T-FILL 9000

Operating Procedure

1. Place battery beside or in front of SAFE-T-FILL 9000. Battery must be above source of electrolyte. Ensure pick-up tube is submerged in adequate electrolyte.
2. Open air valve to desired operating pressure (20 to 40 PSI). Filling speed can be adjusted by using valve to regulate air pressure. You may wish to operate machine at 20 PSI until you are familiar with all features.
3. Place filler head nozzle in battery cell opening, making sure filler head nozzle gasket is sealing properly in cell opening. As soon as this is done, (you have created a vacuum in the battery cell), electrolyte will begin to fill automatically.
4. Once the cell is full, electrolyte will flow back through the bottom tube on the filler head and into the overflow reservoir. When you see the electrolyte flow through the bottom tube, tilt the filler head to one side breaking the seal around the cell opening. This will release the vacuum in the battery and electrolyte flow will stop immediately.
5. Continue to fill remaining cells as described above.
6. **VERY IMPORTANT: DO NOT ALLOW THE ELECTROLYTE IN THE SIGHT TUBE TO EXCEED THE RED LINE ON THE MACHINE CASE.**
If the electrolyte in the overflow reservoir reaches the red line on the machine case, shut the air valve off and allow the electrolyte to drain back into the electrolyte source container.
7. Filling level is adjustable either by removing or adding gaskets to the filler head, (the more gaskets the higher the fill level), or if you have the new adjustable filler head, simply thread the adjustable head up or down the sleeve.
NOTE: HARD RUBBER SEALING GASKETS MUST ALWAYS BE USED TO SEAL ON BATTERY CELL OPENING. FAILURE TO DO THIS MAY CAUSE PROBLEMS RELEASING THE FILLER HEAD FROM CELL OPENING.
8. Any electrolyte accumulation in the overflow reservoir will automatically drain back into the source container when air valve is closed.
9. When filling batteries where cells share a common vent, all cells and the vent holes must be closed off to let the filler develop vacuum.
10. When drawing electrolyte from a 55 gallon drum, remove a bung and insert all 3 battery filler tubes, making sure that the Pick-up tube and Drain-back tubes are immersed in the electrolyte at all times.

When drawing electrolyte from a “bag in box” system, remove the tube and plug from the top of the bag. Then insert the “pick-up tube” (the tube with holes drilled at the very bottom) and the “drain-back” tube (the tube with the check-valve on the bottom) into the bag of electrolyte. The 3rd tube, which comes out of the very bottom left side of the filler, drains any electrolyte which may collect inside the housing of the filler when the fillerhead is hung up on the right side of the filler. This tube may not fit into the electrolyte bag and can simply hang into a bottle or bucket. Very little, if any, electrolyte will ever find its way into the bottle.

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Set Up Procedure

Place the SAFE-T-FILL 9000 on a work bench or mount on the wall. Place electrolyte source container below the SAFE-T-FILL 9000. In all cases source of the electrolyte must be below top of the battery being filled.

Connect the air line to the SAFE-T-FILL 9000. The air supply should be sufficient to maintain 20 to 40 PSI while operating. The air pressure should not exceed 60 PSI. The air pressure can be adjusted by closing the air valve until the desired air pressure is reached.

Place all three tubes in the same electrolyte container. Tubes should be placed so they do not kink or pinch off the flow.

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