

Directions for Filling PYREX[®] Manometers (Cat. No. 6950 And 6952)

Caution: preparing these manometers for use requires the handling and heating of mercury by the user. Precautions should be taken to avoid the inhalation of mercury fumes at any temperature, but special note should be taken that highly toxic fumes are generated when mercury is heated. Contact of mercury with the skin or its ingestion should also be avoided.

1. Clean and dry both the inner and outer manometer tubes.
2. Construct a filling attachment by inserting a 100-200mm length of glass tubing into a 20-40mm length of rubber hose. Use glass tubing that is the same approximate diameter as the inner tube of the manometer.
3. Insert the tip of the manometer inner tube into the other end of the rubber hose.

From this point on, work under a fume hood designed for handling mercury fumes.

4. Pour clean dry mercury into the glass tubing of the filling attachment.
5. Having both the filling attachment and the manometer in a vertical position, gently tap the stopper end of the manometer on a wood block. This will cause mercury from the filling attachment to transfer into the manometer. Continue tapping until the inner tube is almost full.
6. Gently heat the inner tube with the soft flame of a Bunsen burner. Start heating just above the stopper and gradually move toward the filling attachment. Next, allow the tube to cool. Heating forces air out of the inner tube and cooling then draws mercury in. Repeat the heating and cooling until the inner tube is filled with mercury.
7. Pour the excess mercury from the filling attachment and disconnect the attachment from the inner tube. Set the inner tube aside.
8. Pour mercury into the manometer outer tube to a height of 10-15mm.
9. Apply stopcock grease to the stopper of the inner tube.
10. Carefully insert the inner tube into the outer tube. The manometer is now ready to use.



PYREX manometers either have either a "T" sidearm (shown above; Cat No. 6952-235) or a single sidearm (Cat. No. 6950-235; not shown).

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