

Syringe Sampling

Some considerations before sampling:

- ♦ Syringe should be filled to 80% full.
- ♦ The handle of the plastic stopcock always points to the closed port.
- ♦ **DO NOT PULL BACK ON THE BARREL.** This will result in bubble formation. Allow the fluid pressure to push back the barrel and fill the syringe. Apply a slight resistance to the barrel with your thumb.
- ♦ Filled syringe should contain no air bubbles. However, samples will begin releasing gases soon after sampling. Do not release any evolved gases since these gases must be included in the DGA Analysis.

Adjust flow from sampling port for a gentle flow of fluid through the tubing and stopcock.

1 Bleed fluid through stopcock

Handle at Position 1.

2 Fill syringe

Handle at Position 2.

3 Evacuate fluid from syringe

Handle at Position 3.

4 Repeat steps 2 & 3 three times

5 Fill syringe to 80% full

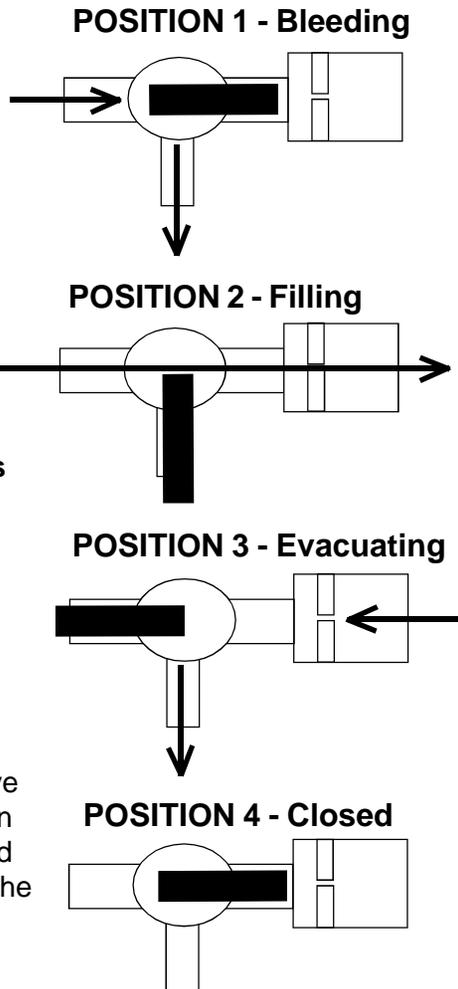
Handle at Position 2.

Ensure no bubbles at this time.

6 Close syringe

Handle at Position 4.

You should now have a representative sample from the insulating fluid within the unit. Record the temperature and any other pertinent information onto the sample data sheet.



Metal Cylinder Sampling

Notes:

- ♦ Hold the cylinder in a vertical position at all times. This will ensure all air bubbles rise to the top and exit the container.
- ♦ Be sure to drain an adequate amount of fluid through the transformer drain valve to flush out stagnant fluid, water, and debris.

1 Drain the Sampling Valve

Flush enough fluid through the drain valve to remove any stagnant fluid, moisture, and debris. Attach a plug fitting with a tubing connector to the drain valve.

2 Attach the tubing to the cylinder

Connect tubing to the cylinder as illustrated.

3 Open valves in ordered sequence

First open the transformer valve (A), then the container's lower valve (B) and finally its upper valve (C). Allow about 1 quart to flow through. Rap the sides and shake the cylinder to dislodge any air bubbles.

4 Shut valves in reverse order

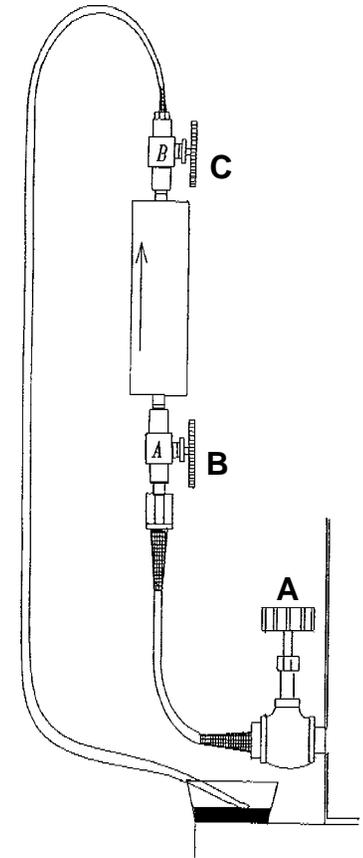
Close the valves C, B, then, A in that order.

5 Re-assemble drain valve and plug

Remove the plug with the tubing connector from the drain valve and replace the original plug.

6 Fill out sample data sheet

You should now have a representative sample from the insulating fluid within the unit ready to be shipped to the lab.



**Still have more questions?
Give us a call at the lab.**

We can also supply you with tubing and hose fittings if necessary. Your local hardware store carries these items also.