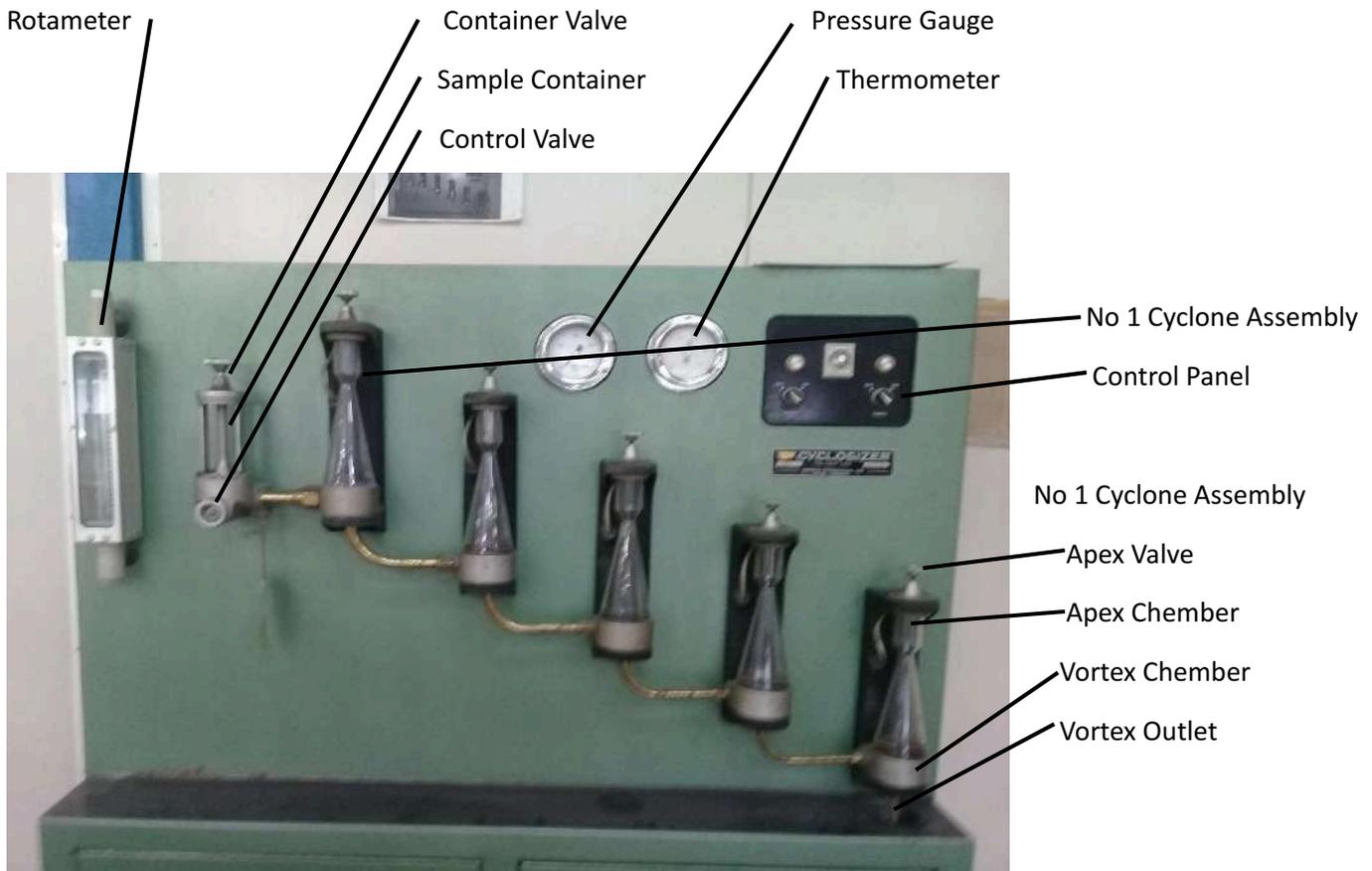




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CYCLOSIZER Sub Sieve Sizing





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OPERATION

Details of operating procedure for the cyclosizer are given in the operating manual which is supplied with the unit.

This sub-sieve unit is for sizing materials below -38 μ m.

Provide below is the general procedure but more detailed procedure will be provided during experiment

- 1.0 Weigh out 50 – 80g samples, mixed it in a beaker with water and then transfer the slurry to the sample container. Add Calgon or any dispersion during mixing when required.
- 2.0 Fit the sample container on panel, start pump and expel air first by opening the apex valve starting with cyclone 1 and then to cyclone 5. During this time sample container valve must be closed.
- 3.0 Set water flow at 25% greater than the pre- determined separation flow rate, open port on sample container and obtained a preliminary distribution of solids to the cyclones (5 minutes)
- 4.0 Reduce flow rate to the pre- determined value and elutriate for 10 to 30 minutes, depending on precision required.
- 5.0 When elutriating is complete, increase the flow rate and discharge the solids of each apex chamber in turn through the apex valve. Collect the discharge the solids in separate beakers.
- 6.0 Filter, dry and weigh each fraction and calculate solids No .5 by difference.

Compiled by Joseph Tera