

7. Filters

Glass Filter

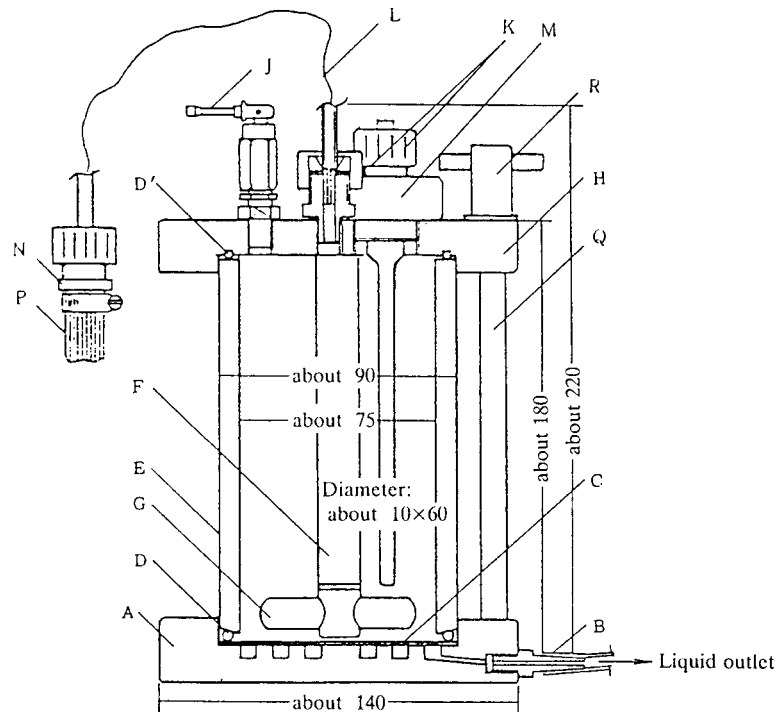
Use a glass filter conforming to the specifications for glass filters under the Japanese Industrial Standards.

Pressure Filter

Operate a pressure filter as directed in the procedure given below.

Apparatus

Generally, apparatus is as illustrated below.



(Unit: mm)

- | | |
|----------------------------------|------------------------------|
| A: Base plate | J: Safety valve |
| B: Liquid outlet tube | K: Tube joint cap |
| C: Supporting screen | L: Pressure-resistant tube |
| D, D': Silicone O-ring | M: Sample inlet |
| E: Cell | N: Pressure source connector |
| F: Supporting column for stirrer | P: Pressure-resistant hose |
| G: Stirrer | Q: Clamping shaft |
| H: Cover | R: Cross nut for clamping |

Procedure

Attach liquid outlet tube B to base plate A, place the membrane filter on supporting screen C, attach silicone O-ring D to the surface of the membrane filter. Place cell E on D, attach silicone O-ring D' to cover H to which stirring apparatus F and G, safety valve J, and other parts are attached, and place on E. Set up clamping shaft Q to H, and tighten uniformly with cross nut R. Place the pressure filter on the stirrer, and pour the sample liquid through sample inlet M. Connect the pressure source (such as a nitrogen cylinder) and the pressure filter, using pressure-resistant hose P and pressure-resistant tube L, increase gradually the pressure to the specified level, and filter the sample. During filtration, stir slowly to the extent that effervescence ceases.