

## Stainless Steel Vacuum Manifolds

Stainless steel vacuum filtration manifolds are autoclavable. These manifolds feature standard or exterior taper (accepts a 40/35 female joint) options with one, three, or six stations.



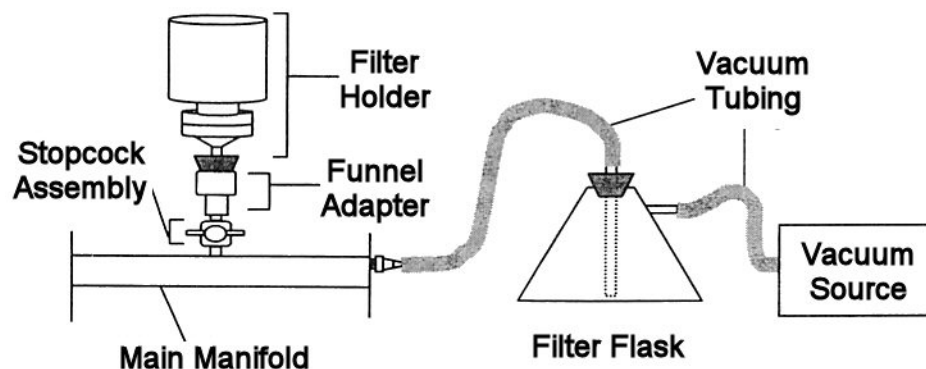
|                | Standard Cup |        | Exterior Taper |        |
|----------------|--------------|--------|----------------|--------|
|                | 2-way        | 3-way  | 2-way          | 3-way  |
| Single Station | 351120       | 351130 | 361120         | 361130 |
| 3-Station      | 353100       | 353130 | 363120         | 363130 |
| 6-Station      | 353300       | 353330 | 363320         | 363300 |

### SPECIFICATIONS

|                |  |                                |
|----------------|--|--------------------------------|
| Materials      | Type 304 stainless steel body  |                                |
| Connections    | Main manifold connects to 3/8" i.d.  |                                |
| Valve          | Two- or three-way valve with Teflon stopcock mounted in chrome plated brass valve body |                                |
| Dimensions     | Standard cup (cm)  | Distance between stations (cm) |
| Single Station | 20.3 x 12 x 17.8   | -                              |
| 3-Station      | 45.7 x 12 x 17.8   | 14                             |
| 6-Station      | 72.4 x 12 x 17.8   | 12                             |

### CLEANING AND MAINTENANCE

- Clean with standard laboratory detergents and bottle brushes.
  - Flush manifold with distilled or deionized water after each use. Unit can be disassembled completely for thorough cleaning.
- To sterilize, pipette or pour 10 ml of distilled or deionized water into the main body of the manifold.
  - Wrap the vacuum connection and each of the branches with a permeable paper. Open all valves to a vertical position. Autoclave at 121°C (250°F) for 20 minutes.
  - Note: Periodically check the actual internal autoclave temperature using a maximum registering thermometer. Overheating or prolonged autoclaving times may cause membranes to embrittle and shrink.



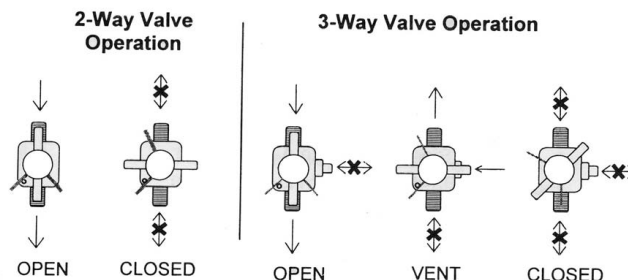
### ASSEMBLY AND OPERATION

1. Wrap all threaded male connections with a single overlapping wrap of Teflon tape.
2. Check to be sure each stopcock assembly is screwed securely into the main manifold and that each funnel adapter is screwed securely into the stopcock assembly.
3. Attach vacuum tubing to the outlet connector at the base of the manifold.
4. Connect the free end of the vacuum tubing to a vacuum trap, and connect trap to vacuum pump with tubing.
5. Make sure all valves are closed. See diagram for closed position.
6. Test the vacuum pump and manifold system for leaks.
7. Mount appropriate filter holders and filters into funnel adapters.
8. Add sample to filter holders.
9. Apply vacuum by opening the valves at each branch (vertical stopcock position).
10. When filtration is complete, the valves may be closed prior to removing the filter holder.

Note: Filters, filter holders, trap, tubing, and vacuum source not supplied with apparatus.

### ORDERING GUIDE

|                  |        |
|------------------|--------|
| Handle           | 313101 |
| Handle set screw | 313015 |
| Pipe plug        | 313012 |
| Hose barb        | 304507 |
| Funnel adapter   |        |
| Standard cup     | 313010 |
| Exterior taper   | 613010 |
| Main manifold    |        |
| Single           | 361103 |
| 3-Station        | 313003 |
| 6-Station        | 313203 |
| Silicone stopper |        |
| #8 (14 mm bore)  | 311404 |
| #8b (10 mm bore) | 311008 |
| Filtering flask  |        |
| 1000 ml          | 311430 |



| Stopcock Parts | 2-way Valve | 3-way Valve |
|----------------|-------------|-------------|
| Whole Assembly | 613005      | 313005      |
| PTFE stopcock  | 313431      | 313006      |
| PVC Body       | 613032      | 313032      |
| O-ring         | 313008      | 313008      |