

MultiVac 300 - MS

MultiVac 300 - MB

MultiVac 301 - MB

MultiVac 600 - MS

MultiVac 600 - MB

MultiVac 601 - MB

Stainless Steel Multi-Branch Manifold

MultiVac 301 - MB - T

MultiVac 601 - MB - T

MultiVac 301 - MB - A

MultiVac 601 - MB - A

Vacuum Filtration System



Important Notice

The instrument shall not be modified in any way. Any modification will void the warranty and may result in potential hazard. We are not responsible for any injury or damage caused by any non-intended purposes and modifying the instrument without authorization.

Unpacking

When unpacking, notice if the package is complete and in good situation. If you find any damage or missing parts, please preserve serial number, shipping carton and contact your dealer for quick solution. Please discard the packing materials according to your local environmental protection policy.

Model	Composition	Q'ty
MultiVac 300 - MS	3 Places SS Manifold with No. 8 stopper funnel adaptor	x 1



Model	Composition	Q'ty
MultiVac 300 - MB	3 Places SS Manifold with Rocker SF funnel adaptor	x 1



Model	Composition	Q'ty
MultiVac 301 - MB	3 Places SS Manifold with Rocker SF funnel adaptor	x 1
	100 ml SF Funnel	x 3



Model	Composition	Q'ty
MultiVac 600 - MS	6 Places SS Manifold with No. 8 stopper funnel adaptor	x 1



Model	Composition	Q'ty
MultiVac 600 - MB	6 Places SS Manifold with Rocker SF funnel adaptor	x 1



Model	Composition	Q'ty
MultiVac 601 - MB	6 places SS Manifold with Rocker SF funnel adaptor	x 1
	100 ml SF Funnel	x 6



Model	Composition	Q'ty
MultiVac 301 - MB - T	3 Places SS Manifold with Rocker SF funnel adaptor	x 1
	100 ml SF Funnel	x 3
	Rocker 400, Oil Free Vacuum Pump	x 1
	Dragon 100, Torch Burner	x 1
	4000 ml Heavy Duty PP Vacuum Bottle with drain	x 1
	PALL, GN-6 Membrane, grid, 0.45 um, 200/PK	x 1
	Silicone Tube (100 cm)	x 2



Model	Composition	Q'ty
MultiVac 601 - MB - T	6 Places SS Manifold with Rocker SF funnel adaptor	x 1
	100 ml SF Funnel	x 6
	Rocker 400, Oil Free Vacuum Pump	x 1
	Dragon 100, Torch Burner	x 1
	4000 ml Heavy Duty PP Vacuum Bottle with drain	x 1
	PALL, GN-6 Membrane, grid, 0.45 um, 200/PK	x 1
	Silicone Tube (100 cm)	x 2



Model	Composition	Q'ty
MultiVac 301 - MB - A	3 Places SS Manifold with Rocker SF funnel adaptor	x 1
	100 ml SF Funnel	x 3
	Alligator 200, Diaphragm Liquid Pump	x 1
	Dragon 100, Torch Burner	x 1
	PALL, GN-6 Membrane, grid, 0.45 um, 200/PK	x 1
	Silicone Tube (15 cm)	x 1
	Silicone Tube (200 cm)	x 1



Model	Composition	Q'ty
MultiVac 601 - MB - A	6 Places SS Manifold with Rocker SF funnel adaptor	x 1
	100 ml SF Funnel	x 6
	Alligator 200, Diaphragm Liquid Pump	x 1
	Dragon 100, Torch Burner	x 1
	PALL, GN-6 Membrane, grid, 0.45 um, 200/PK	x 1
	Silicone Tube (15 cm)	x 1
	Silicone Tube (200 cm)	x 1





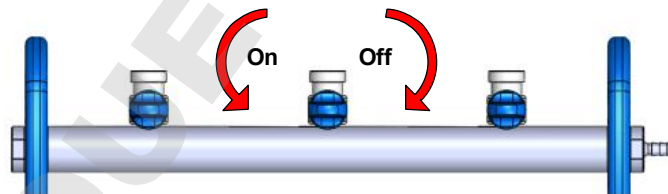
Installation and Operation

Attention

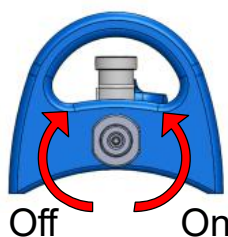
- MultiVac manifold can connect with vacuum pump or liquid pump for the filtration. It is always recommended to install a Vacuum Bottle between the manifold and vacuum pump to prevent liquid from flowing into the vacuum pump.
- The outlet direction of the MultiVac manifold is interchangeable. The outlet can be disassembled by hand or tool to change into desired direction.
- The adjustable vent valve can avoid "Water Hammer" and help to drain residual liquid in the tube.

Operation

- Make sure all valves are off  before use, rotate the valves counterclockwise to up position  for filtration.



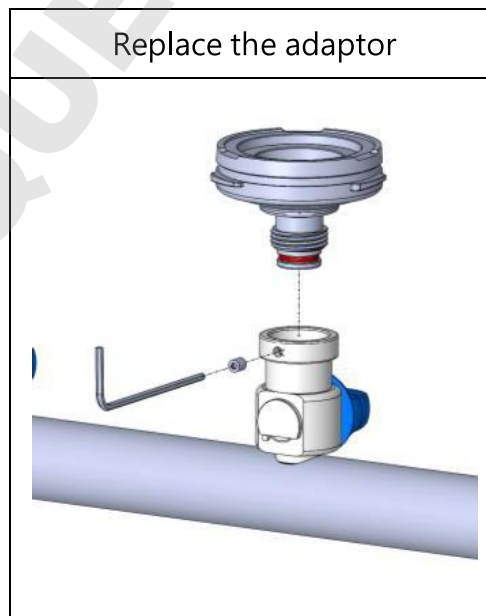
- If water hammer effect happens during filtration, adjust the vent valve until smooth. After filtration, turn the vent valve counter-clockwise to draw out the remaining liquid if necessary.








- The convertible funnel adaptor design makes funnel adaptors can be changed easily to fit desired funnel. For example: Rocker SS funnel or other major brands' disposable funnels.



- Tighten fixing screw with L-Type hex key (2 mm) to prevent support base from rotation. Loosen the screw to replace the adaptor.



- Filter Holder Installation as below

Silicone Stopper Adaptor	Spin-Lock Adaptor	SS316 Adaptor for Pall disposable funnel	SS316 Adaptor for Millipore disposable funnel	SS316 Adaptor for Sartorius disposable funnel
				

* SS316 Adaptor for Pall disposable funnel is only available for Pall 4870 (100 ml) and 4871 (250 ml) funnel.

* SS316 Adaptor for Millipore disposable funnel is only available for Millipore MIACFD101 (100 ml) and MIACFD201 (250 ml) funnel.

* SS316 Adaptor for Sartorius disposable funnel is only available for Sartorius 16A07 (100 ml/250 ml) funnel.

- **Vacuum filtration system Installation (with Oil Free Vacuum Pump)**

- A. Follow below diagram to install the system: two silicone tubes to connect the Rocker 400 vacuum pump, Vacuum Bottle and manifold.
- B. Install the membrane in filter holder as above-mentioned steps.
- C. Turn on the pump and pour the sample liquid into the funnel and turn the valve to "vertical" position to start the filtration.
- D. After finishing the filtration, turn the valve to "horizontal" position and retrieval the membrane.
- E. SF funnel can be fast flame-sterilized by Dragon 100 torch burner or autoclave before proceeding next filtration.



Vacuum Filtration System Assembly Diagram

- **Vacuum filtration system Installation (with Diaphragm Liquid Pump)**

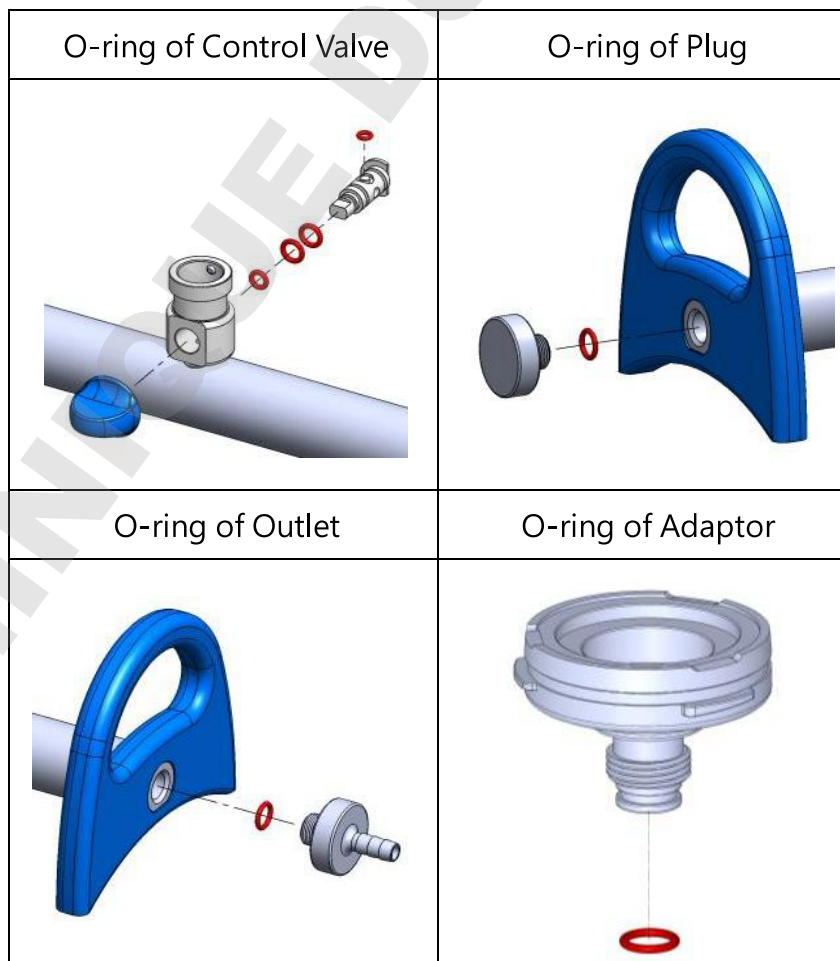
- A. Follow below diagram to install the system: connect 15 cm silicone tube to manifold and "IN" , the inlet of Alligator 200, connect 200 cm tube to "OUT" , the outlet of Alligator 200. Outlet of 200 cm tubes can be put in sink or container to drain or collect the waste liquid.
- B. Install the membrane in filter holder as above-mentioned steps.
- C. Turn on the pump and pour the sample liquid into the funnel and turn the valve to "vertical" position to start the filtration.
- D. After finishing the filtration, turn the valve to "horizontal" position and retrieval the membrane.
- E. SF funnel can be fast flame-sterilized by Dragon 100 torch burner or autoclave before proceeding next filtration.



Vacuum Filtration System Assembly Diagram

Maintenance

- Please suck in pure water to clean the tubing after every use and keep pumping air for at least 1 min to drain out the residual liquid.
- Please clean the surface of manifold with pure water or 75% ethanol.
- Funnels, adaptors, and membrane supports which are made of SS316, so they can be fast sterilized by flame or autoclave.
- MultiVac manifold, filter holder and vacuum bottle are autoclavable (121°C, 1 bar, 20 min). Please keep all control valves/ knobs and vent valve at "OPEN" position to make a complete sterilization when autoclaved.
- Silicone tube and O-ring are consumables. Please replace with new silicone tube and O-ring in case of air leakage problem.



Ordering Information

180300-00	MultiVac 300, 3 Places SS Manifold Base (w/o Funnel Adaptor)
180300-01	MultiVac 300-MS, 3 Places SS Manifold with No.8 Stopper Funnel Adaptor (w/o Funnel)
180300-02	MultiVac 300-MB, 3 Places SS Manifold with Rocker's Funnel Adaptor (w/o Funnel)
180600-00	MultiVac 600, 6 Places SS Manifold Base (w/o Funnel Adaptor)
180600-01	MultiVac 600-MS, 6 Places SS Manifold with No.8 Stopper Funnel Adaptor (w/o Funnel)
180600-02	MultiVac 600-MB, 6 Places SS Manifold with Rocker's Funnel Adaptor (w/o Funnel)
190200-20	Rocker's SF Funnel Adaptor
190100-71	Silicone Stopper Funnel Adaptor (Long Type)
190100-73	SS316 Adaptor for Millipore, MIACFD101 and MIACFD201 Disposable Plastic Funnel
190100-74	SS316 Adaptor for Sartorius 16A07 Disposable Plastic Funnel
190100-75	SS316 Adaptor for Pall 4870, 4871 Disposable Plastic Funnel
180100-01/03/05	Rocker SF Stainless Steel Funnel 100 ml / 300 ml / 500ml
167400-11(22)	Rocker 400, Vacuum Pump, AC110V/60Hz (AC 220V/50Hz)
181200-01(02)	Alligator 200, Diaphragm Liquid Pump, AC100-240V Adaptor, US Plug (EU Plug)
167200-48	4000 ml Heavy Duty PP Vacuum Bottle with drain
167100-52	PALL, GN-6 Membrane, grid, sterilized, 0.45 um
177100-00	Dragon 100 Torch Burner
167200-38	Silicone Tube, Ø 6 x 12 mm, 1 m
180301-11(22)-T	MultiVac 301-MB-T, Vacuum Filtration System, AC110V/60Hz (AC 220V/50Hz)
180601-11(22)-T	MultiVac 601-MB-T, Vacuum Filtration System, AC110V/60Hz (AC 220V/50Hz)
180301-01(02)-A	MultiVac 301-MB-A, Vacuum Filtration System, AC100~240V Adaptor, US Plug (EU Plug)
180601-01(02)-A	MultiVac 601-MB-A, Vacuum Filtration System, AC100~240V Adaptor, US Plug (EU Plug)