

**Pin Tool Washing Set-Up:
VP 566A-2, VP 549ETOH-4, VP 549H2O-4 and VP 560B-3**



Parts:

VP 566A-2

VP 549ETOH-4 or 5

VP 549H2O-4 or 5

VP 560B-3

VP 565-1-TUBING-50 ultra-chemical-resistant Tygon 2375, 1/8" ID, 1/4" OD, 50 feet

VP 566A-1-TUBING-25 ultra-chemical-resistant Tygon 2375, 1/4" ID, 3/8" OD, 25 feet



VP 566A-2



VP 560B-3

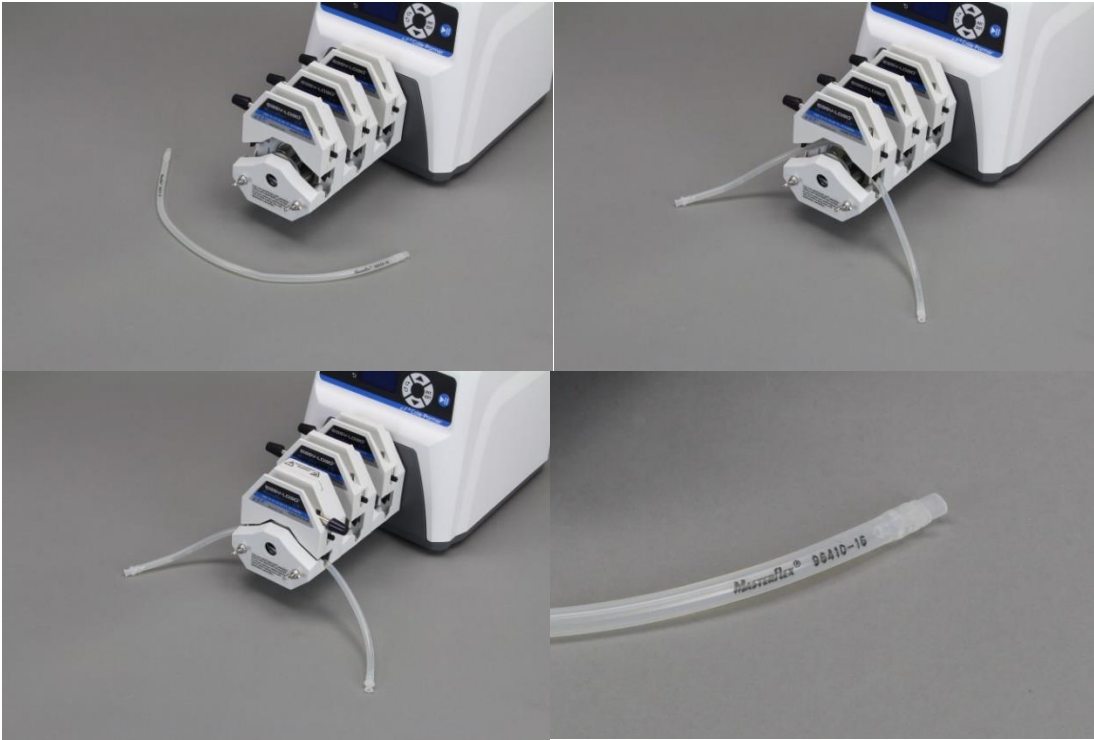


VP 549-ETOH-4



VP 549-H2HO-4

Placement of silicone pump tubing in groove of peri pump head



Connection of tubing from carboy -> silicone tubing at pump -> to wash reservoir.



Above left: 3/8" ID tubing with male luer-hose barb fitting

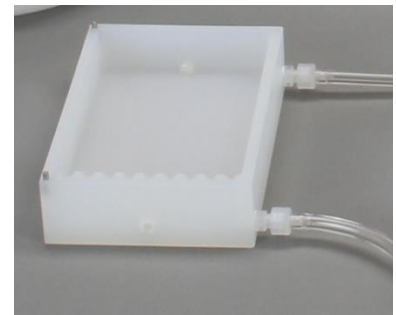
Above middle: Female luer fitting on both ends of silicone tubing

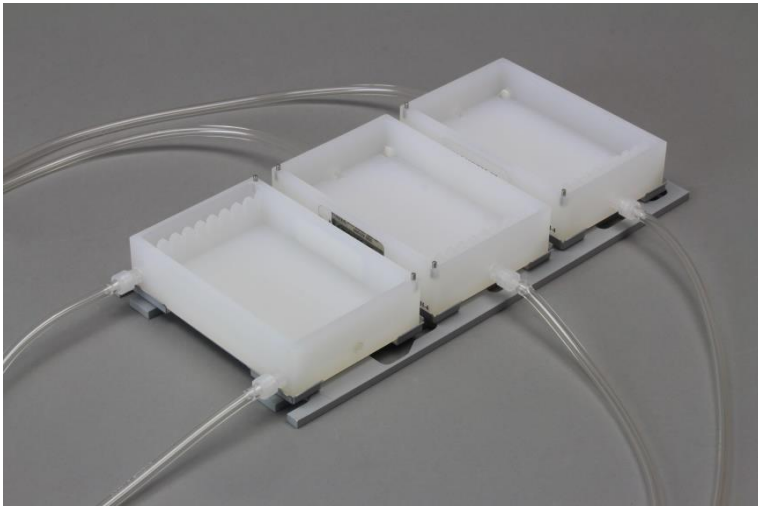
Above right: 1/8" ID tubing with male luer-hose barb fitting



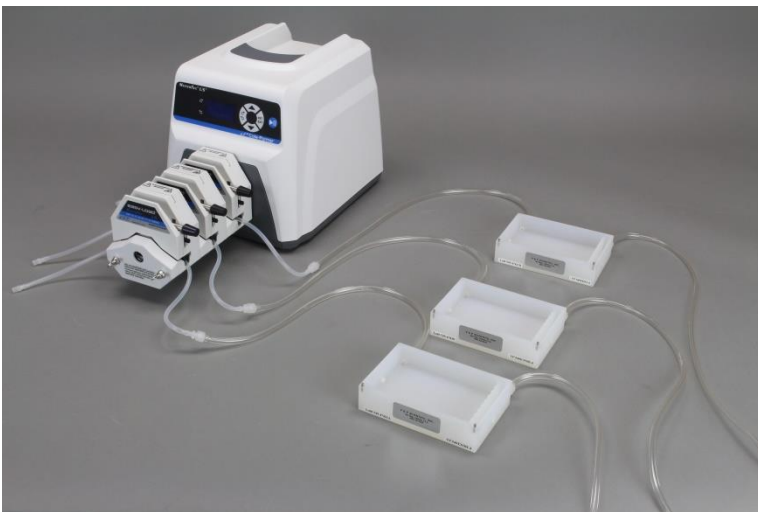
Left: 3/8" ID tubing attached to hose barb fitting of carboy.

Right: 1/8" ID tubing with male luer-hose barb fitting attached to female luer fittings on reservoir, inlet (top) outlet (bottom). Direct tubing on outlet fitting to waste collection carboy (not shown, usually different from the source carboy).





1) Place reservoirs into plate carrier/plate nests as needed for pin wash routine. Change location of inlet/outlet fittings to route the tubing in the best way for the deck and plate positioning features. Suggestion: do not cut tubing until placement of all parts has been determined.



2) Place peri pump, complete with 3 pump heads and silicone tubing, near to liquid handler, next to deck or below deck on a lower shelf. Connect the fittings of the 1/8" tubing already attached to reservoir inlet fittings, to the female luer fitting of the silicone tubing in the pump head.



3) Place Carboys near to liquid handler, next to deck or below deck on a lower shelf. Connect fittings on 3/8" tubing, that is connected to the carboys, to the other end of the female luer fitting of the silicone tubing in the pump head. Make sure to match reservoir to carboy containing the wash fluid that is to go into a particular reservoir.

V&P Scientific assumes no liability for the customer's failure to comply with safety requirements and practices.

WARRANTY

V&P Scientific, Inc. warrants this product to be free from defects in material and workmanship when used under normal laboratory conditions for one year. This warranty begins from the date of delivery by V&P Scientific.

In the event this product fails under normal laboratory conditions within the specified period of time because of a defect in material or workmanship, V&P Scientific will, at its option, repair or replace the product. Damage to the product caused by user negligence is not covered.

Please keep the special shipping carton in case the unit needs to be shipped back to V&P Scientific. Please contact V&P Scientific at the above address for return authorization and shipping instructions.

This warranty is made in lieu of other warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose. V&P Scientific shall not be liable for loss or damages arising from the use of these products nor for consequential damages of any kind.