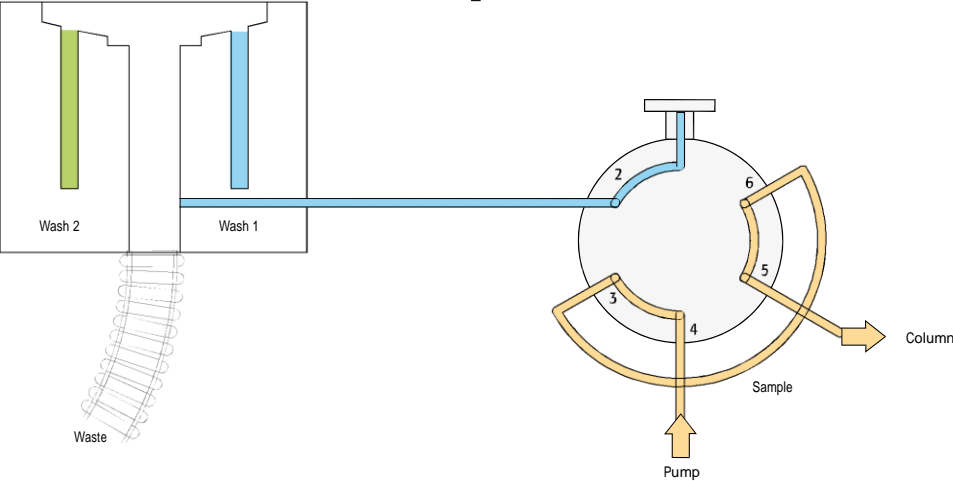
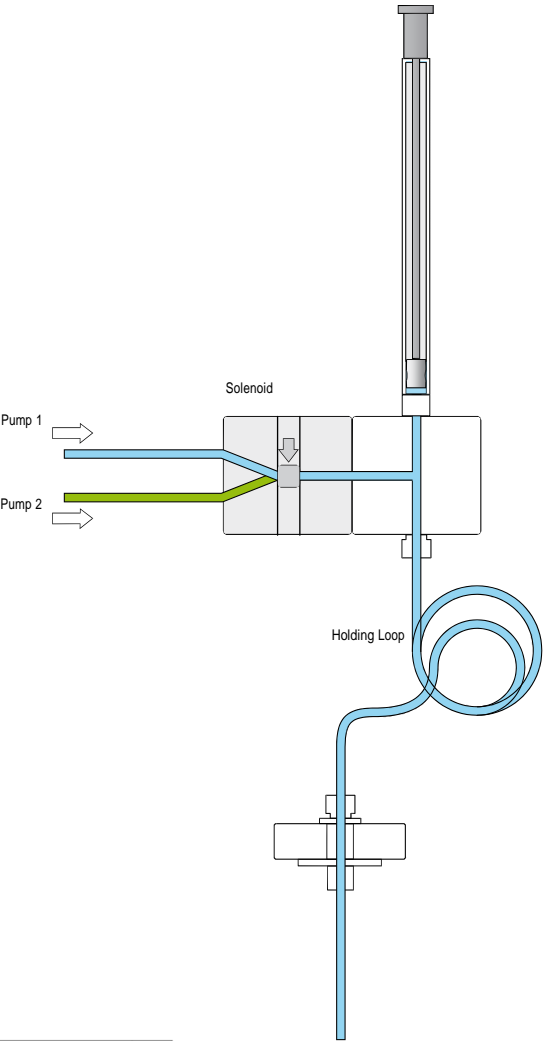
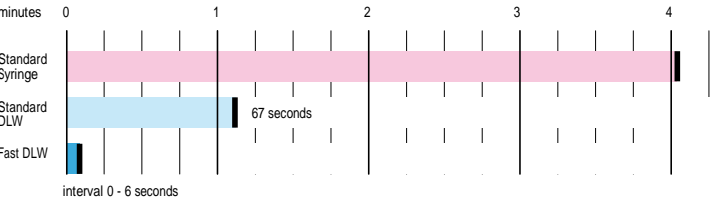




Dynamic Load and Wash

Animation of Fast Dynamic Wash Cycle
September 9, 2009

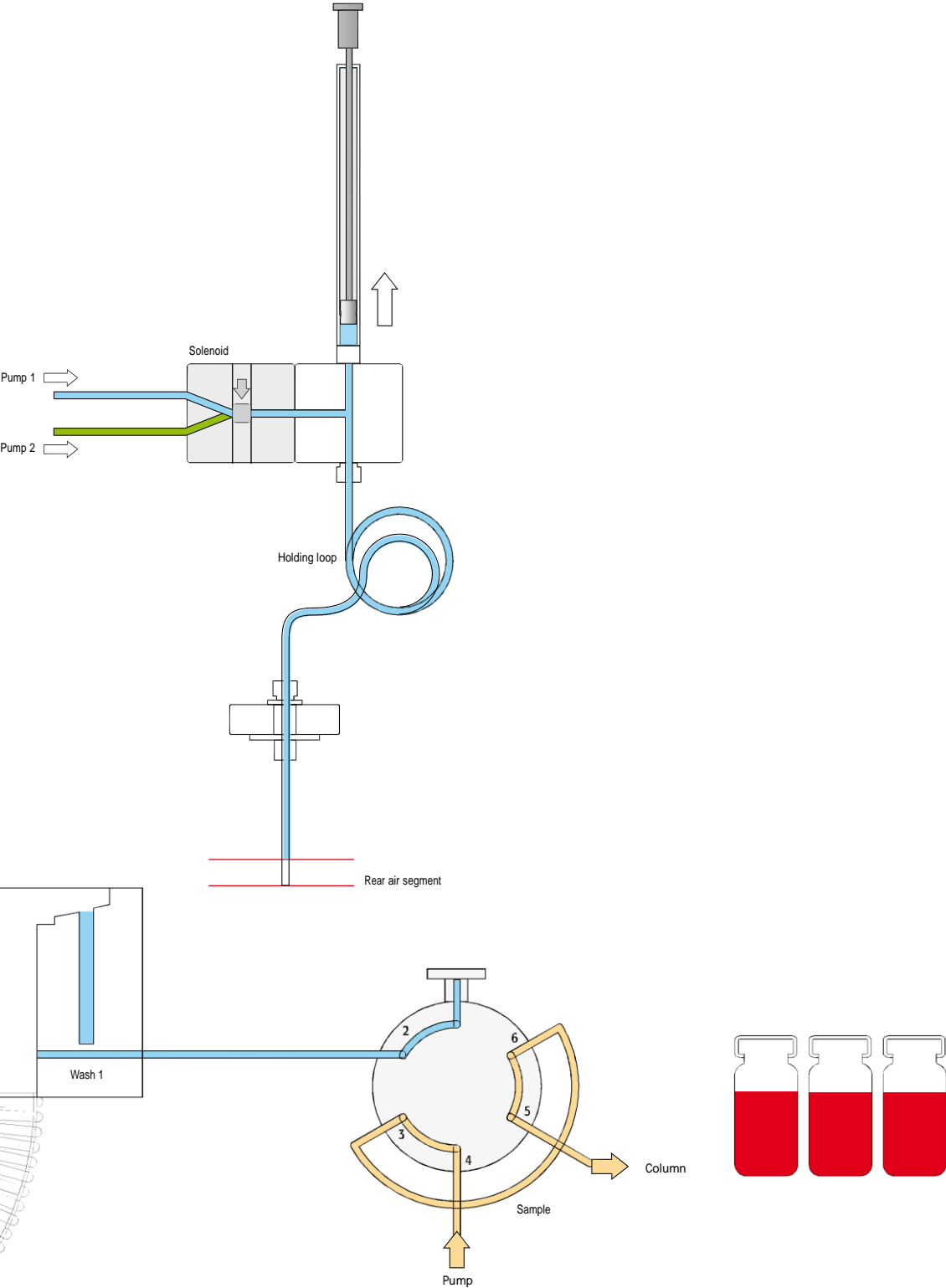
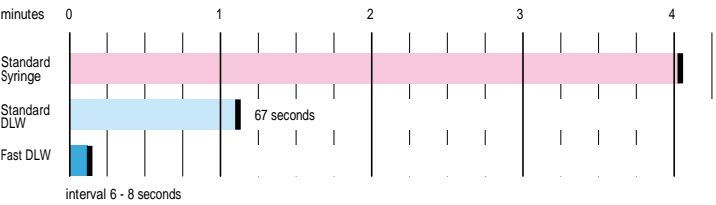
Fast Dynamic Load & Wash cycle start



Fast DLW

Step 1

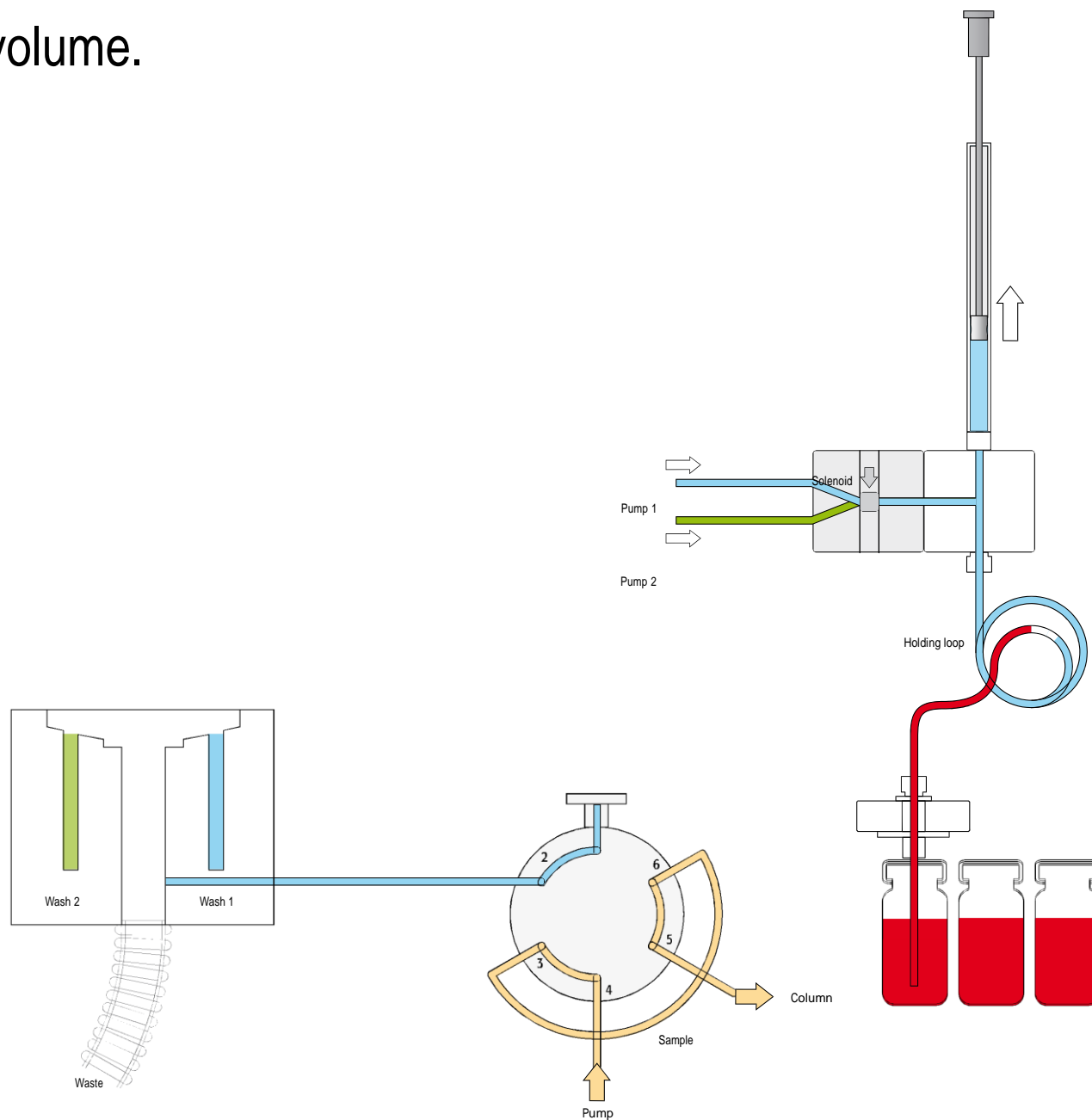
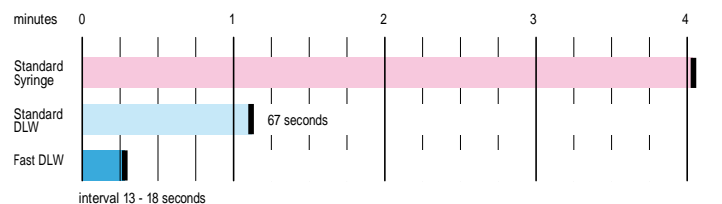
aspirate rear air segment



Fast DLW

Step 2

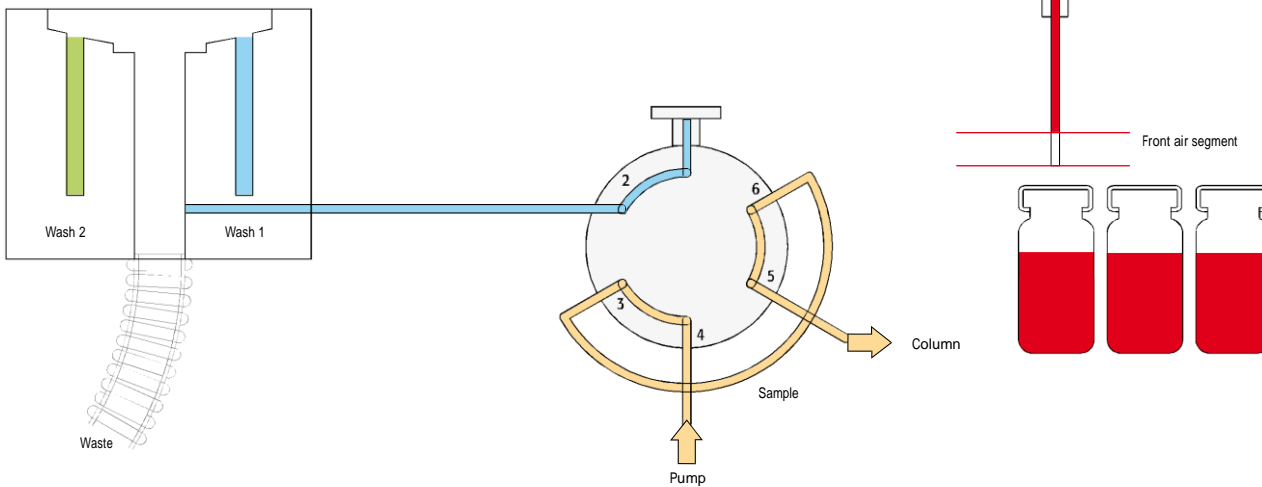
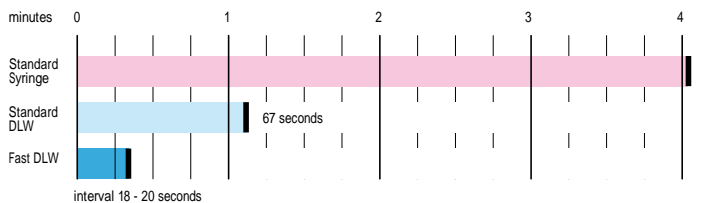
get sample
aspirate rear, inject and front volume.



Fast DLW

Steps 3 - 4

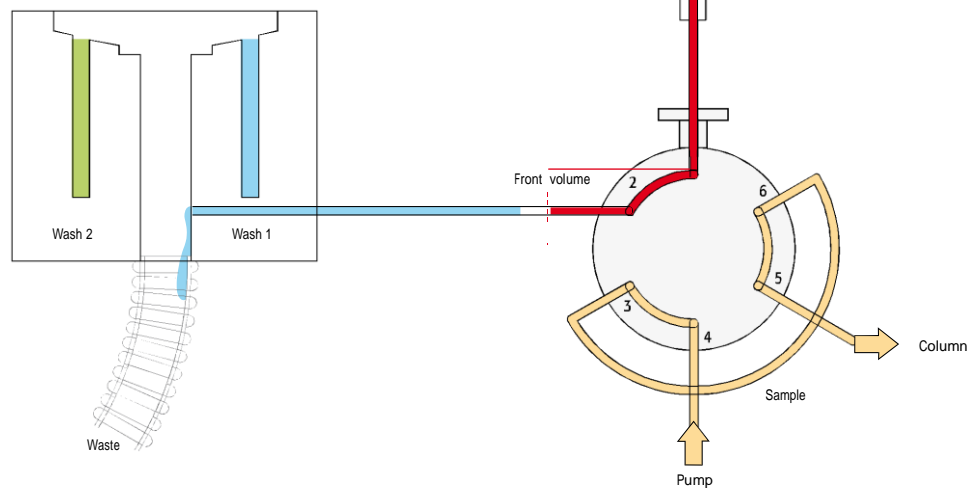
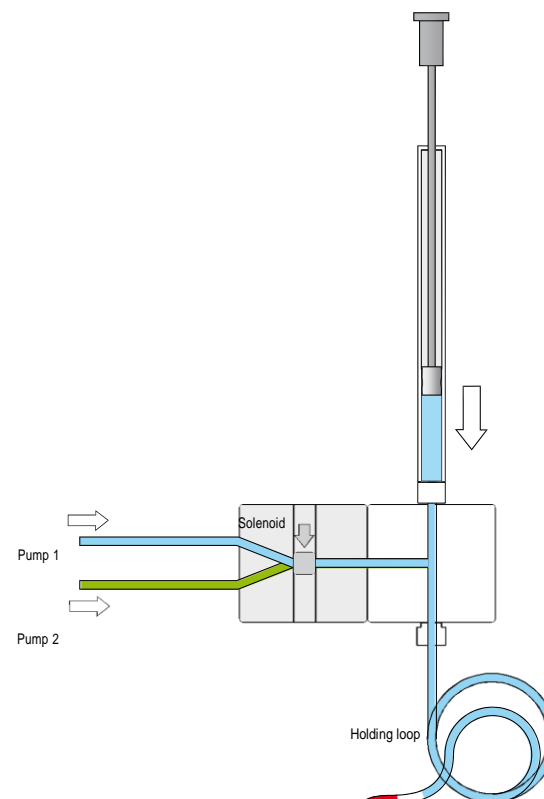
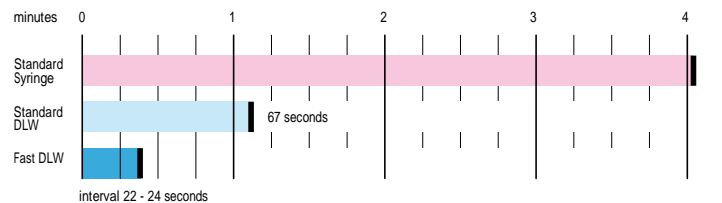
aspirate front air segment



Fast DLW

Steps 5 - 6

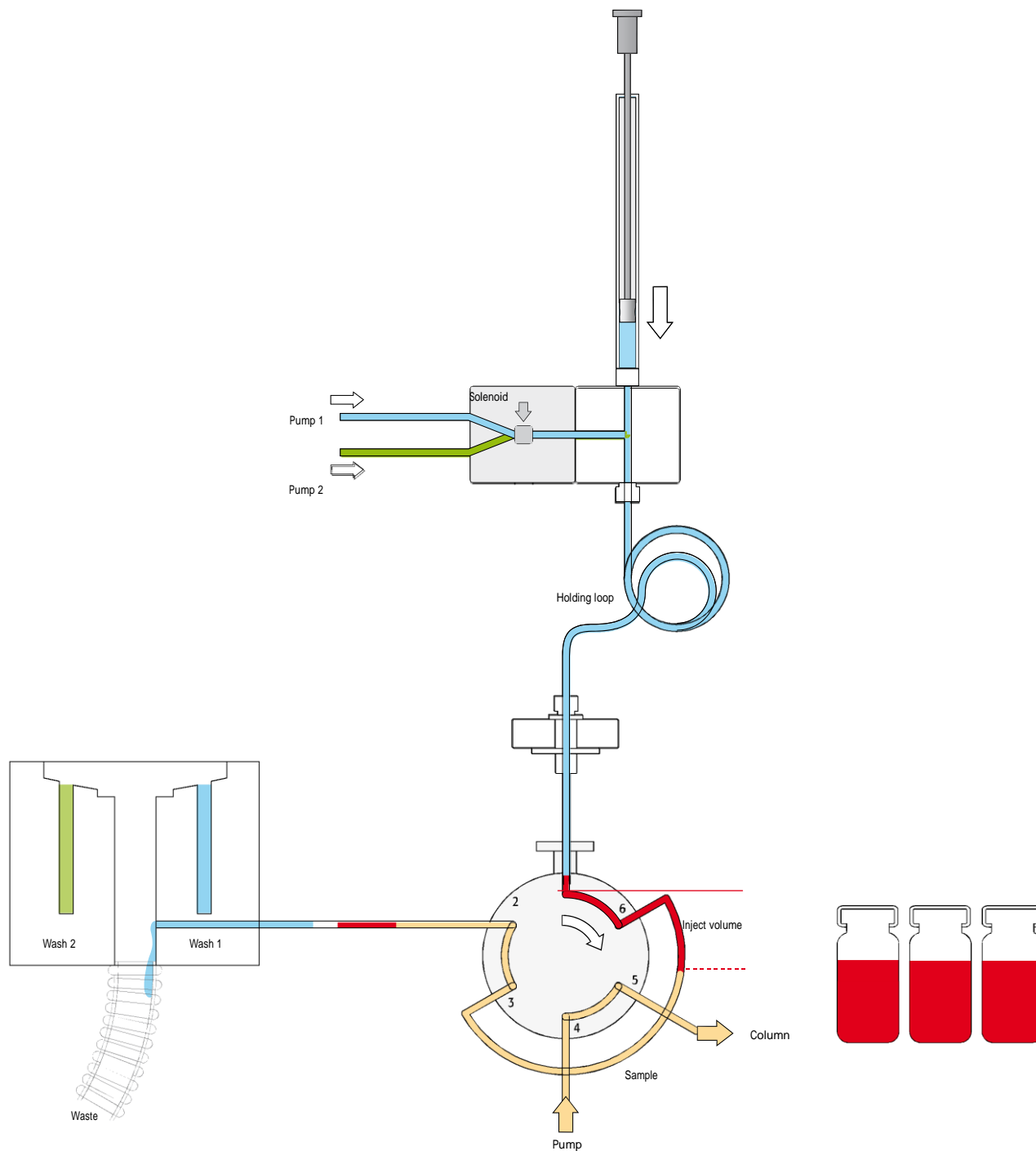
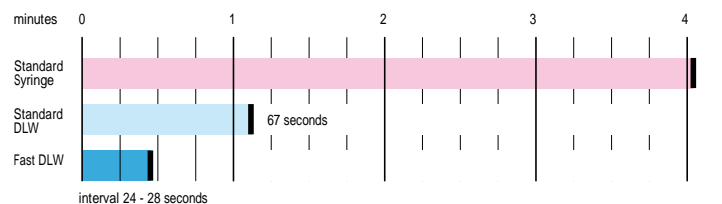
dispense front air segment and
front sample volume to waste



Fast DLW

Steps 7 - 8

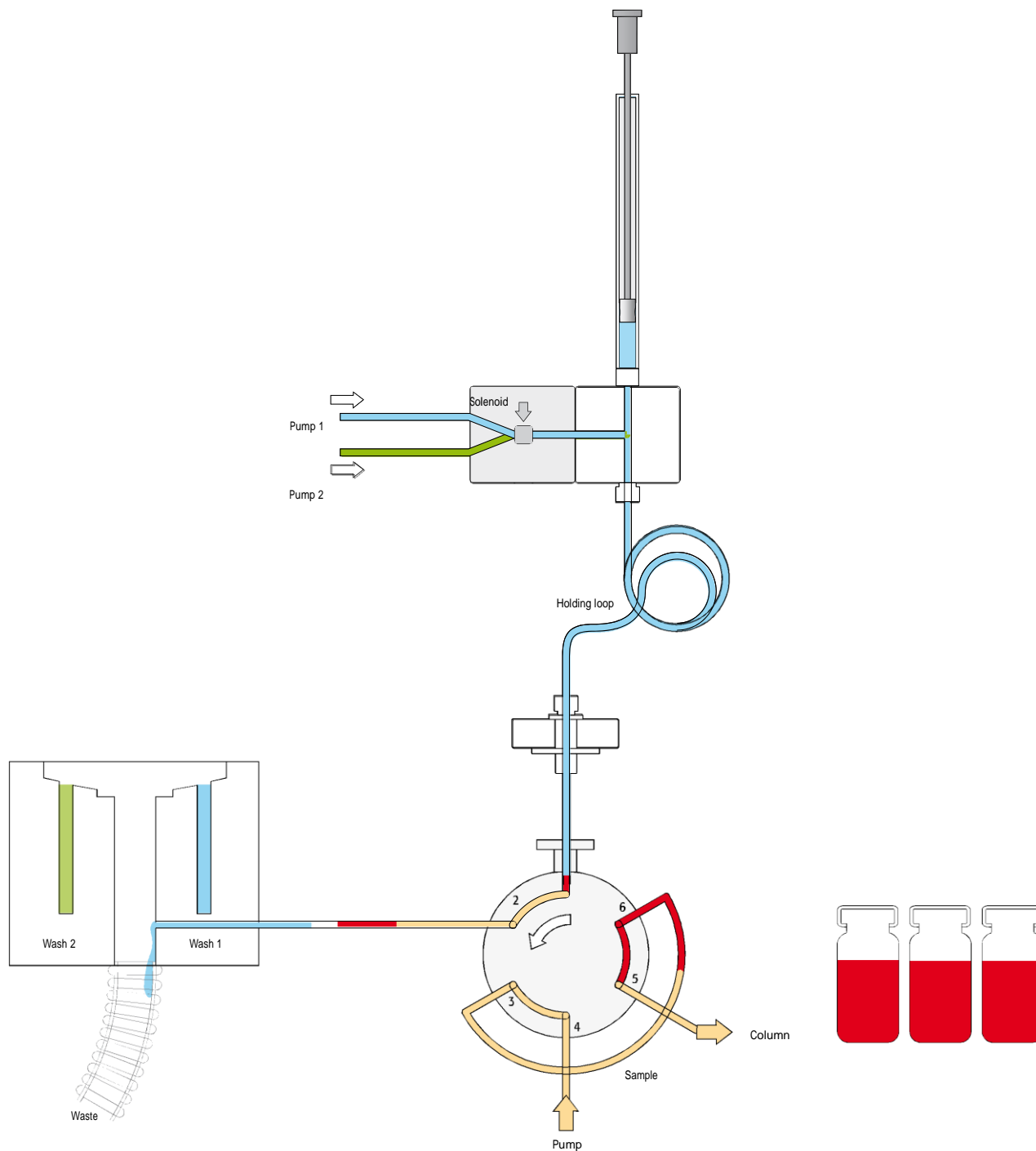
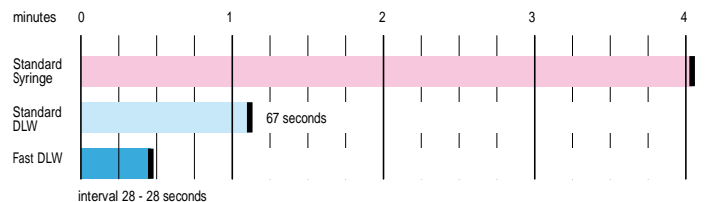
valve to load position
and load inject volume



Fast DLW

Steps 9

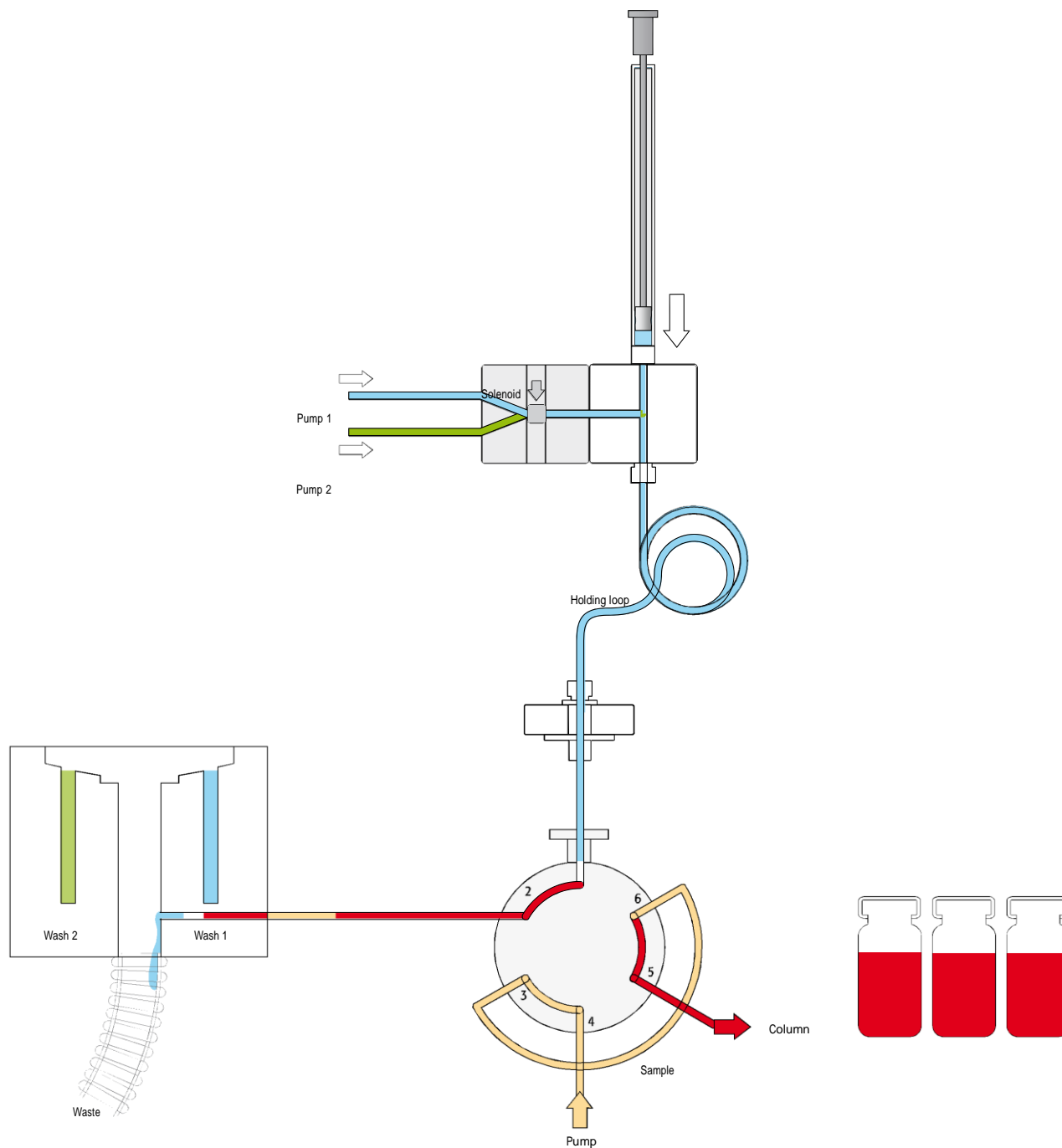
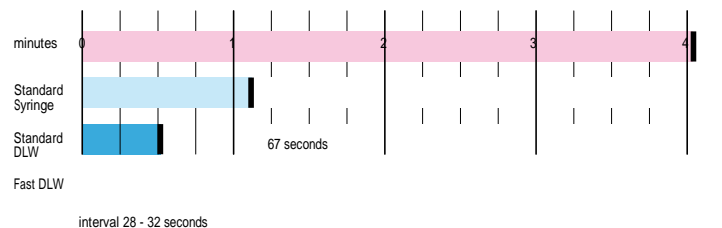
valve to inject position and
start chromatography



Fast DLW

Steps 10

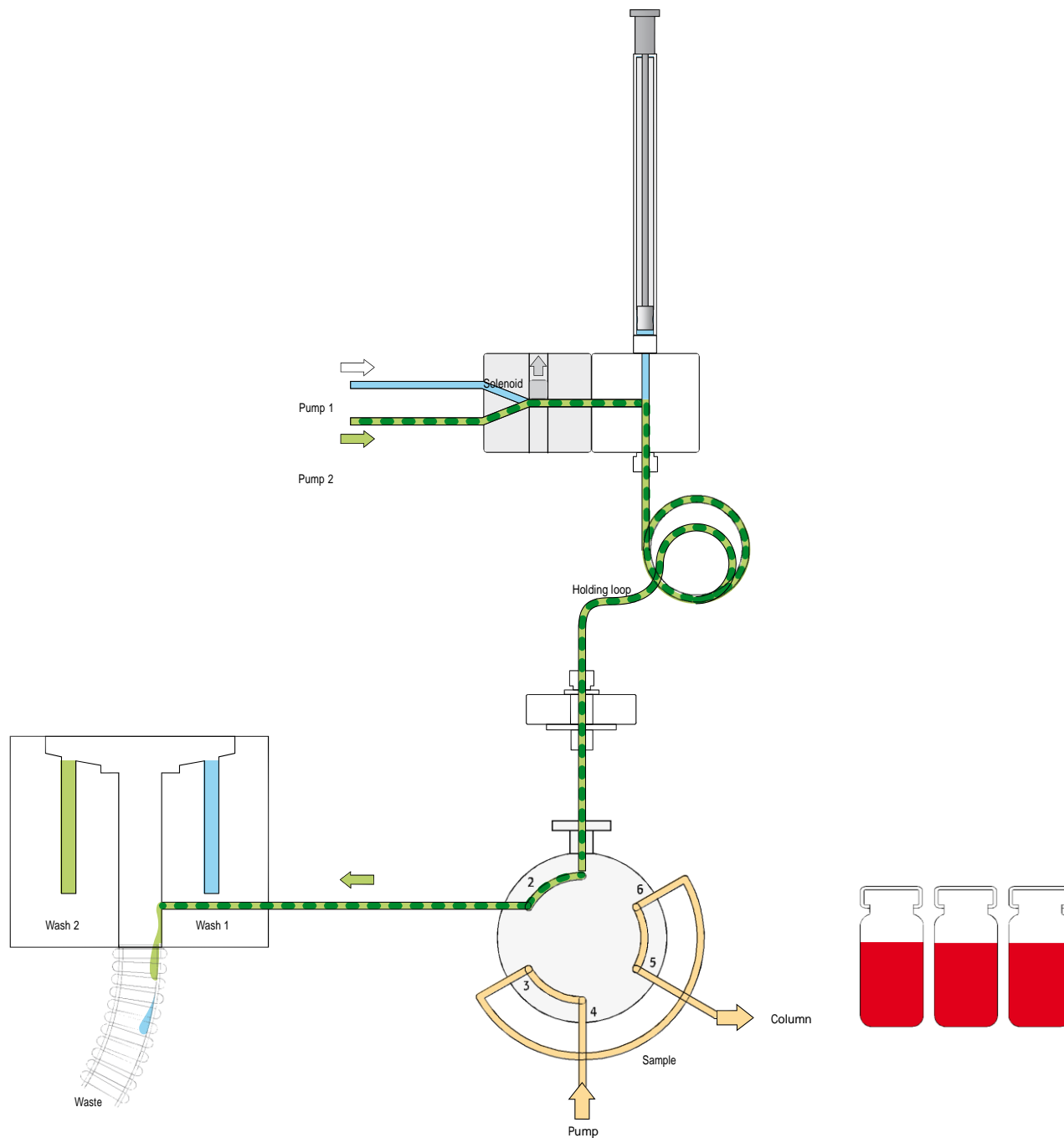
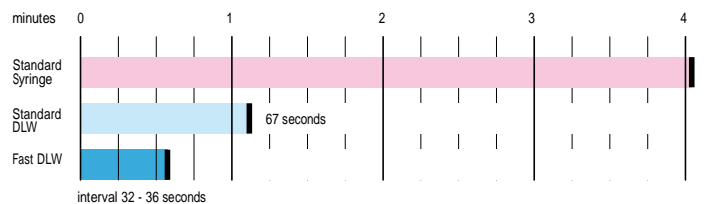
dispense rear sample
and air segment to waste



Fast DLW

Steps 11 - 12

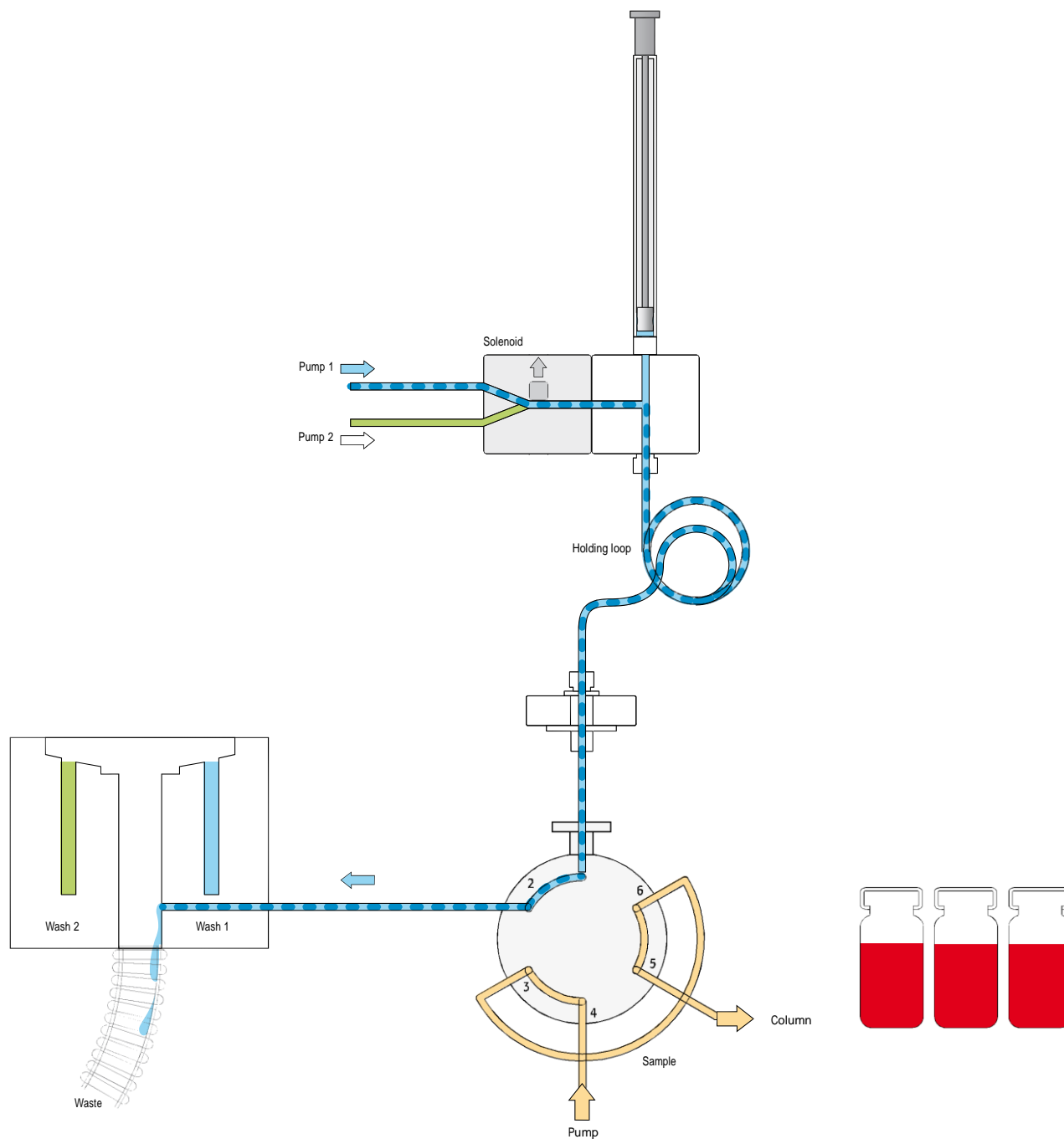
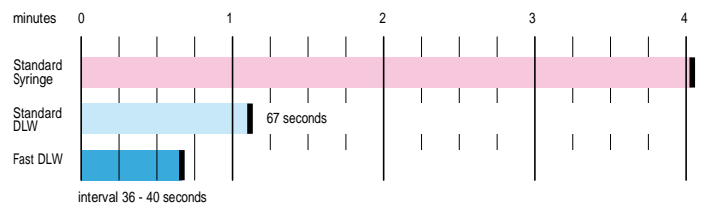
valve clean with wash liquid 2



Fast DLW

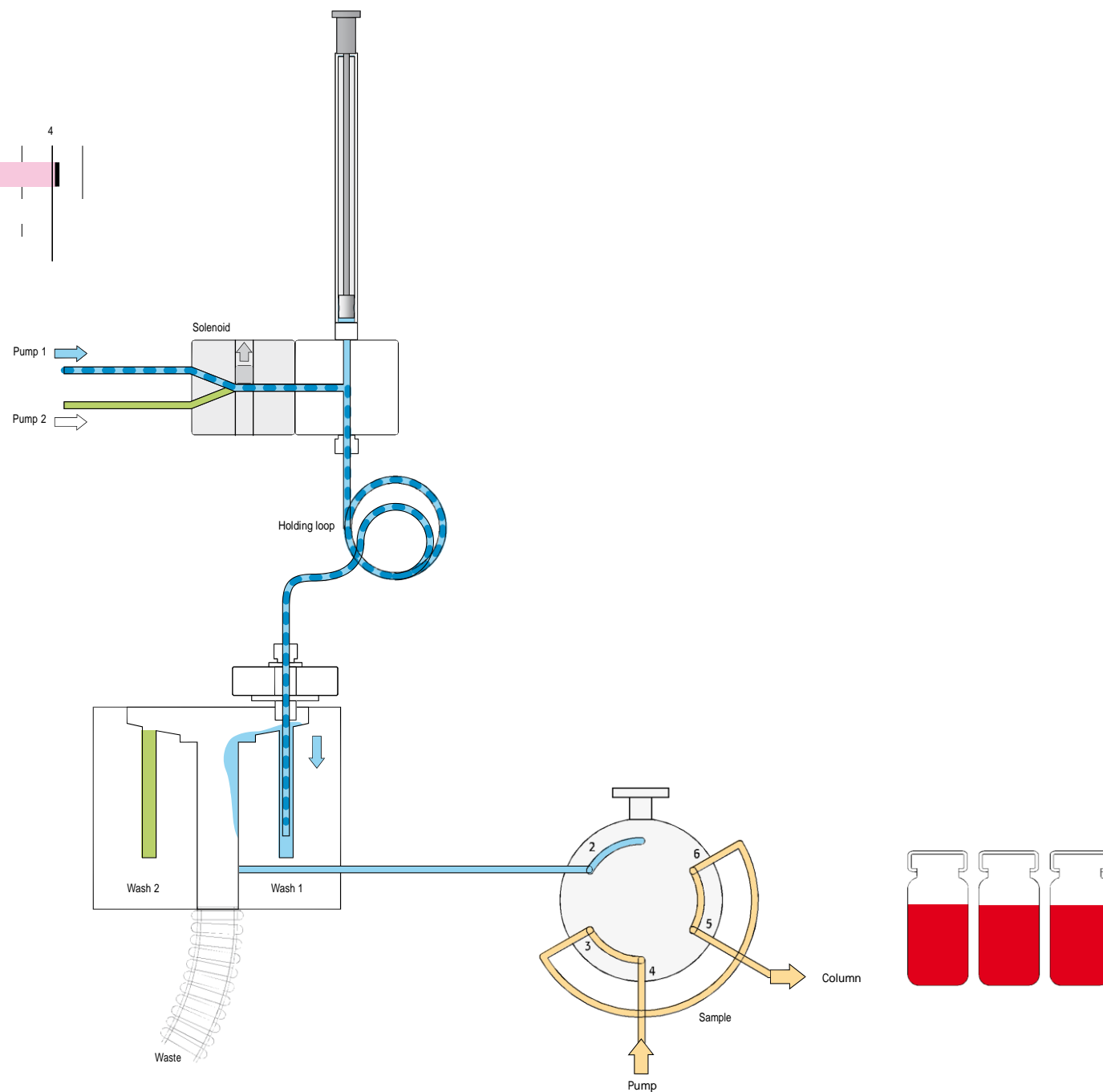
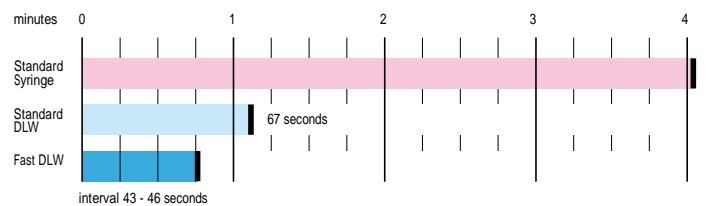
Steps 13 - 14

valve clean with wash liquid 1



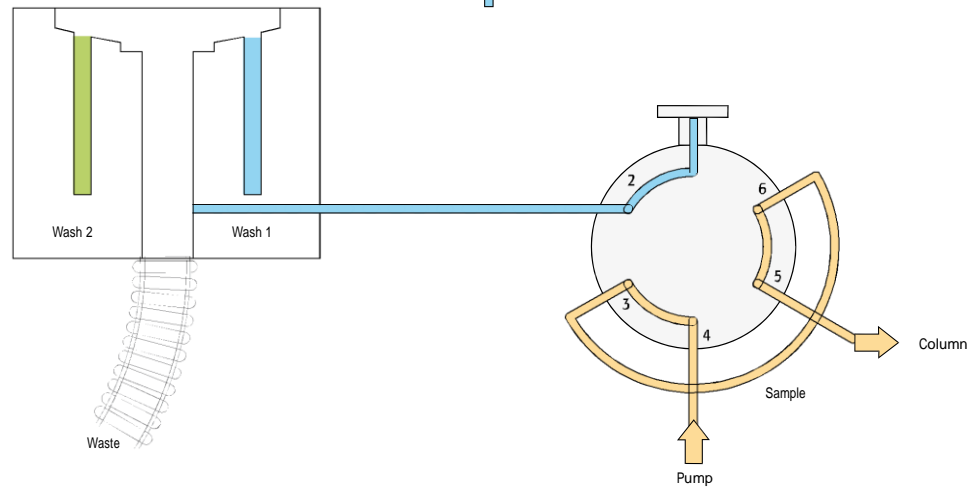
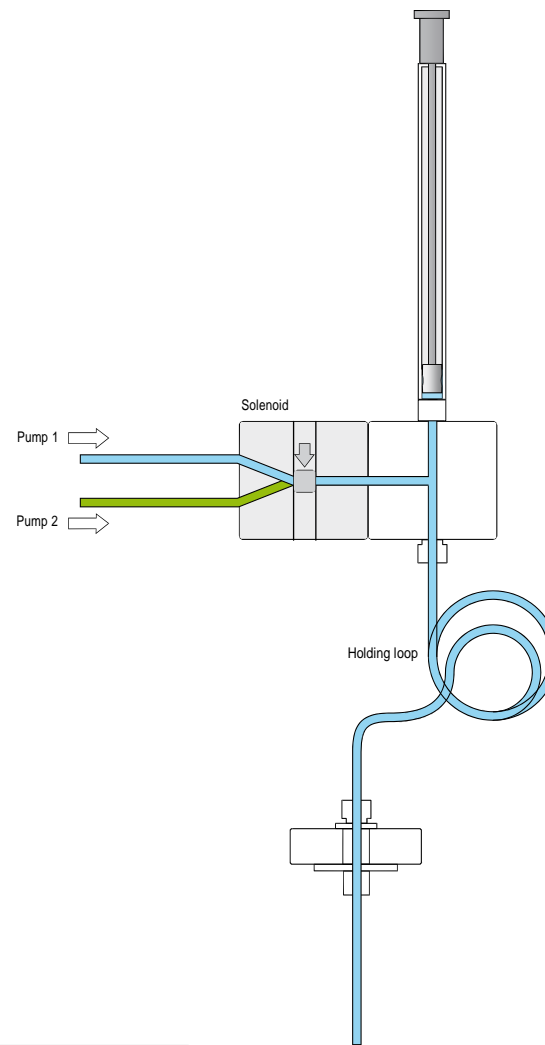
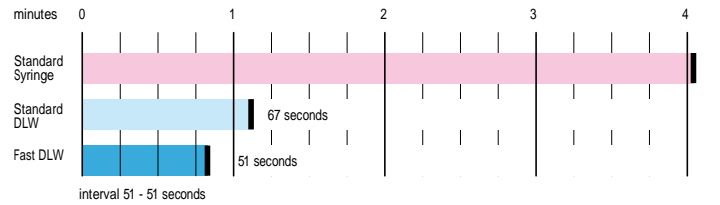
Fast Steps 15

active needle wash with wash liquid 1

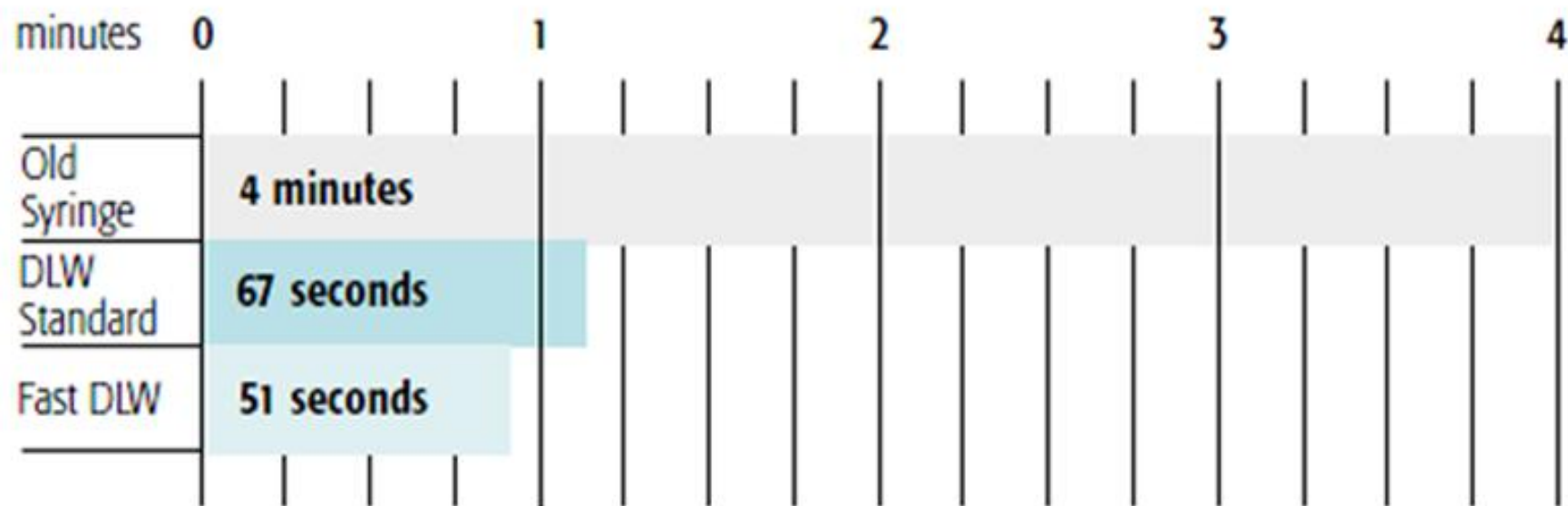


Fast DLW cycle end

Steps 16



Time and solvents



*Total solvent consumption is 2.4ml – 2.6ml
(Typical wash cycle)*