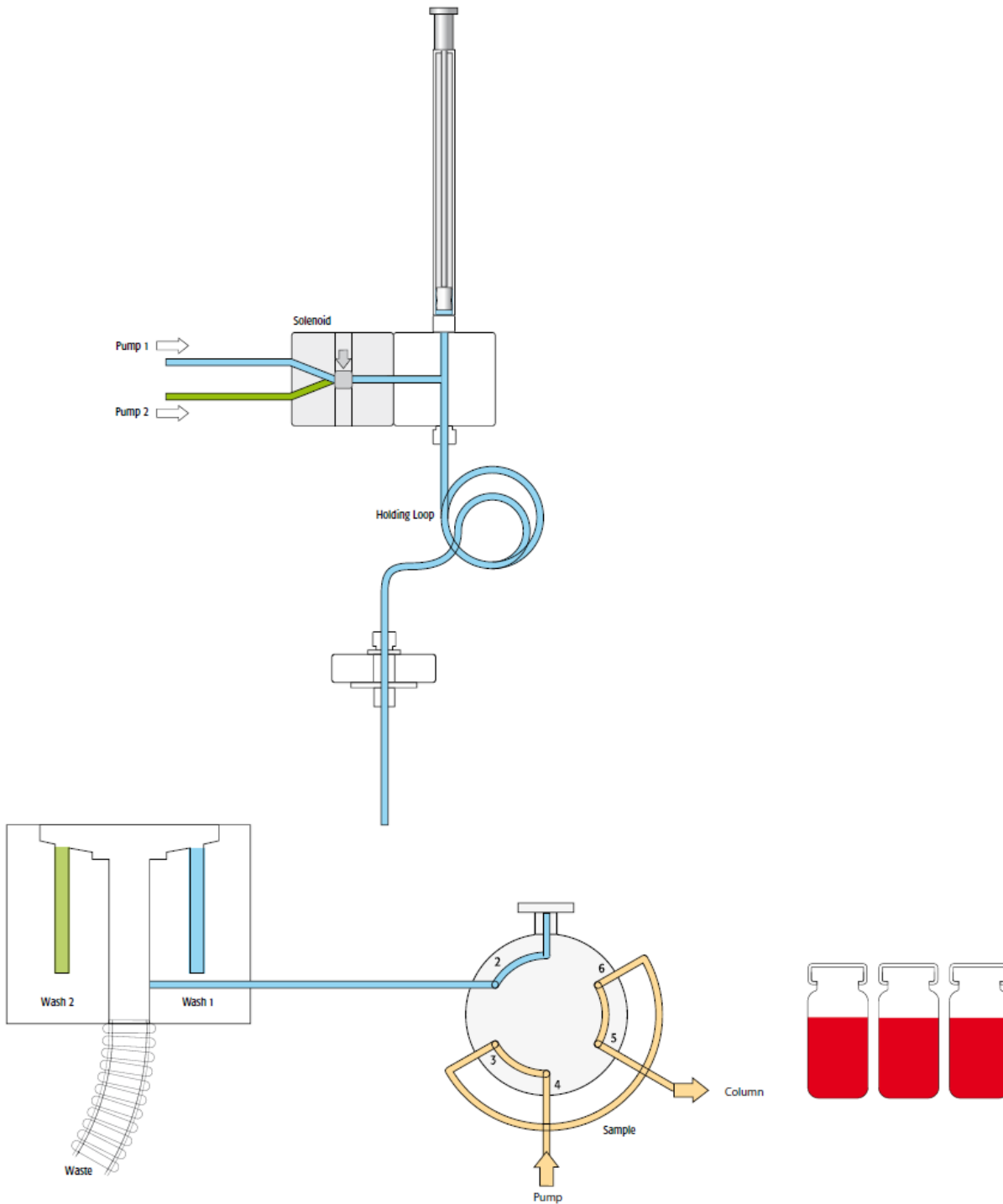
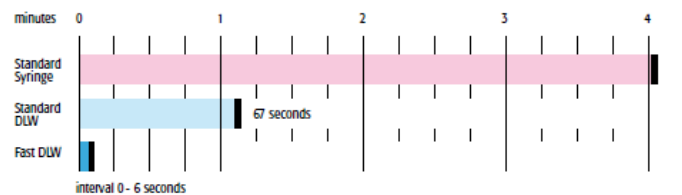




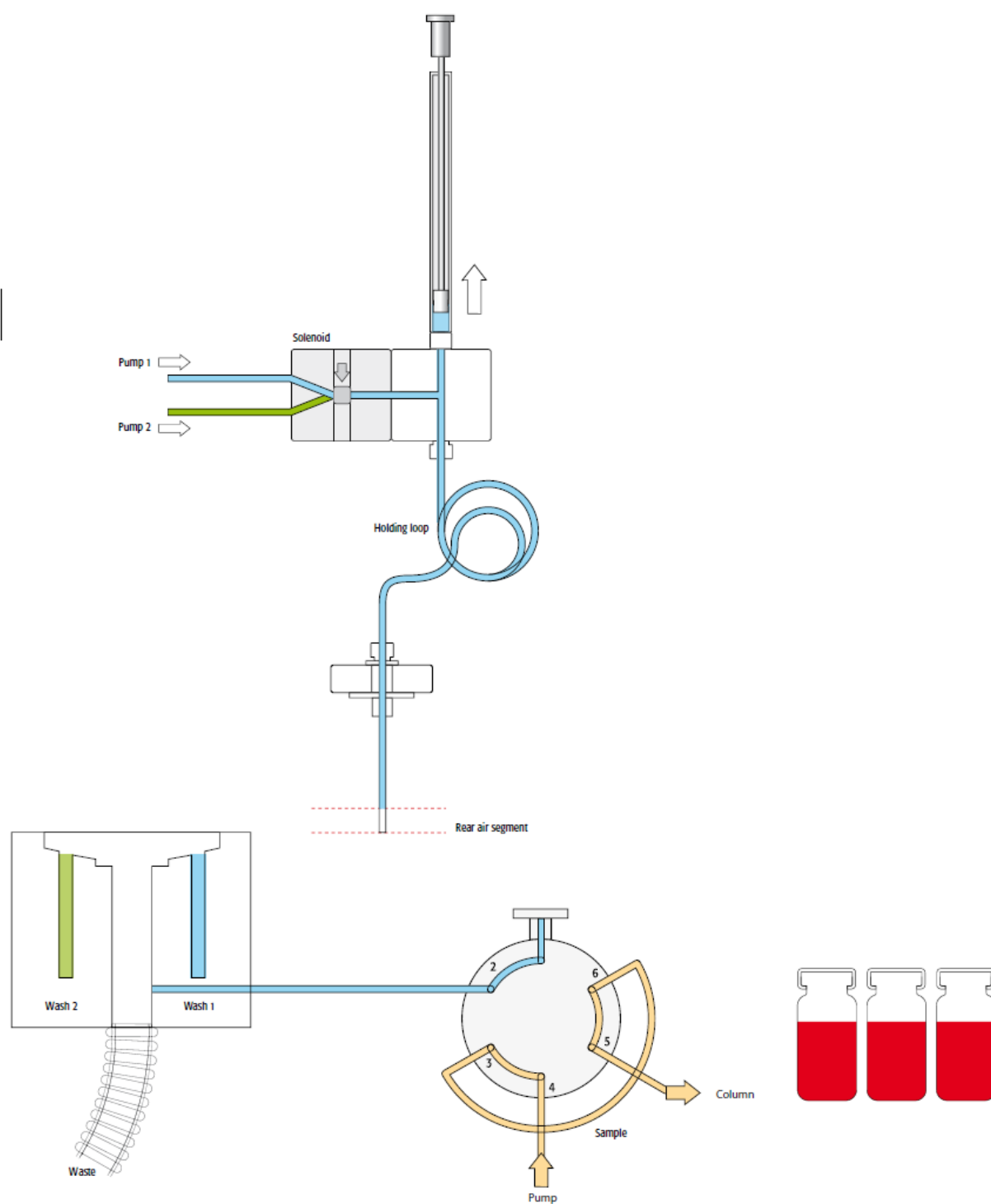
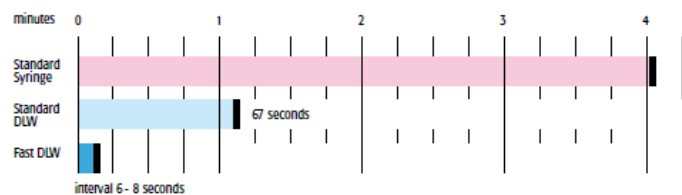
Dynamic Load and Wash

Animation of Fast Dynamic Wash Cycle
September 9, 2009

Fast Dynamic Load & Wash cycle start

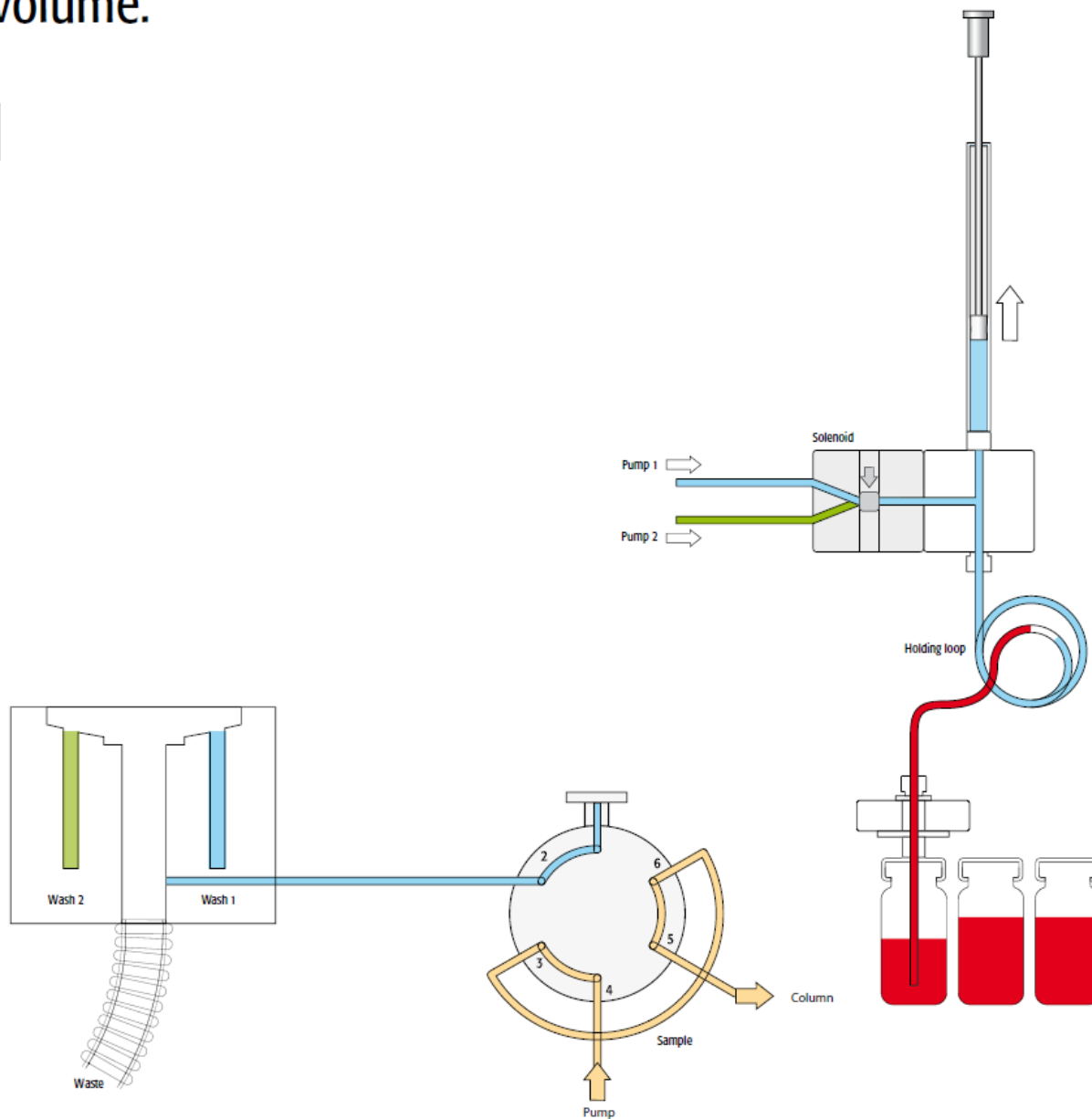
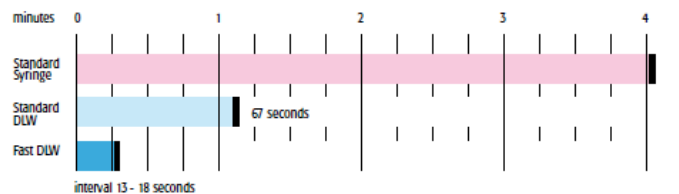


Fast DLW ^{Step 1} aspirate rear air segment



Fast DLW ^{Step 2}

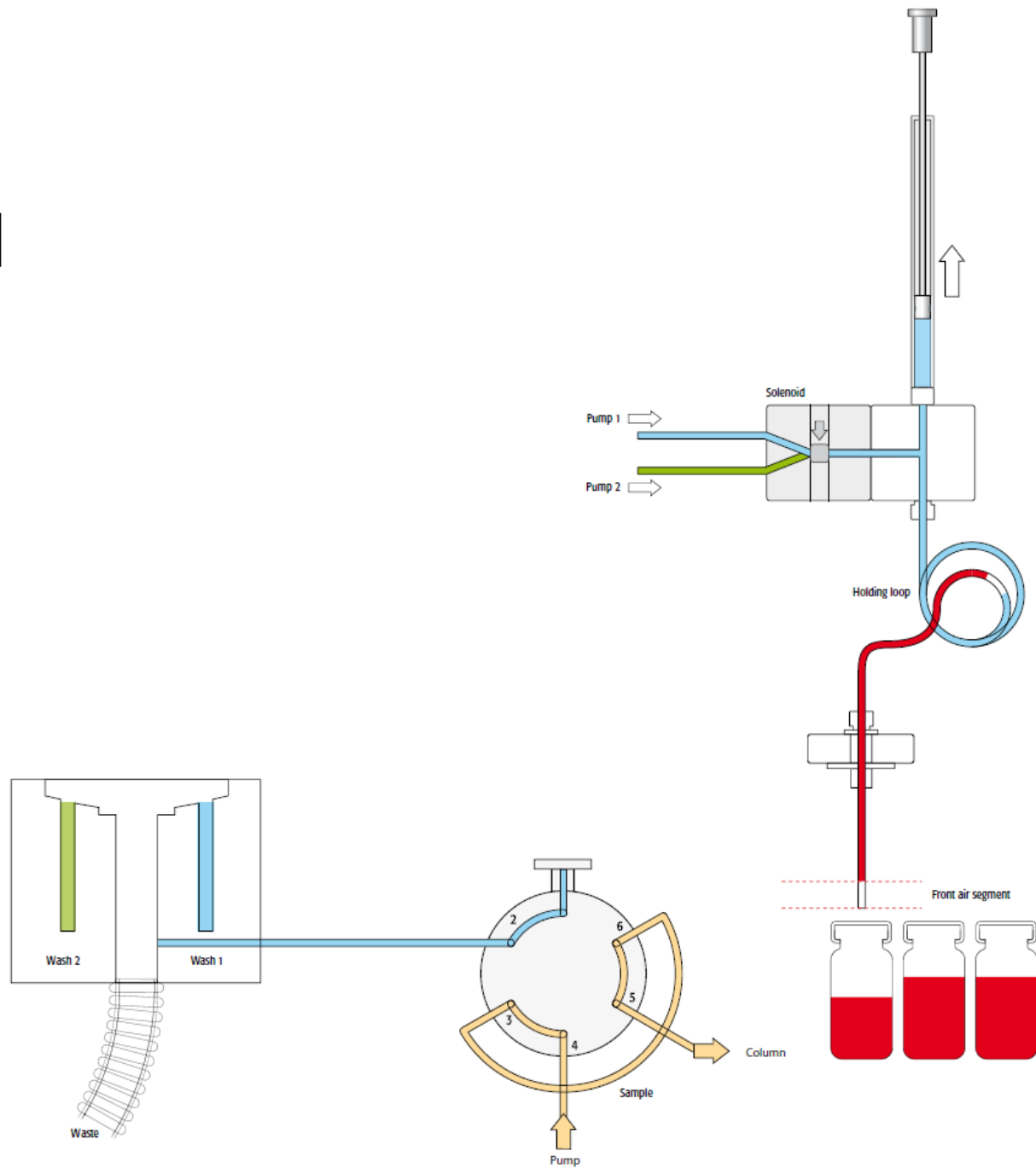
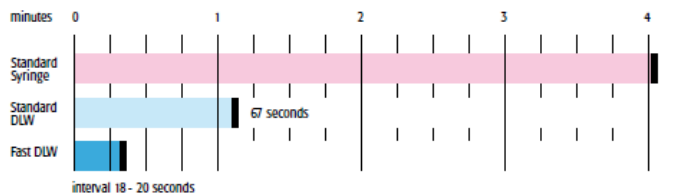
get sample
aspirate rear, inject and front volume.



Fast DLW

Steps 3 - 4

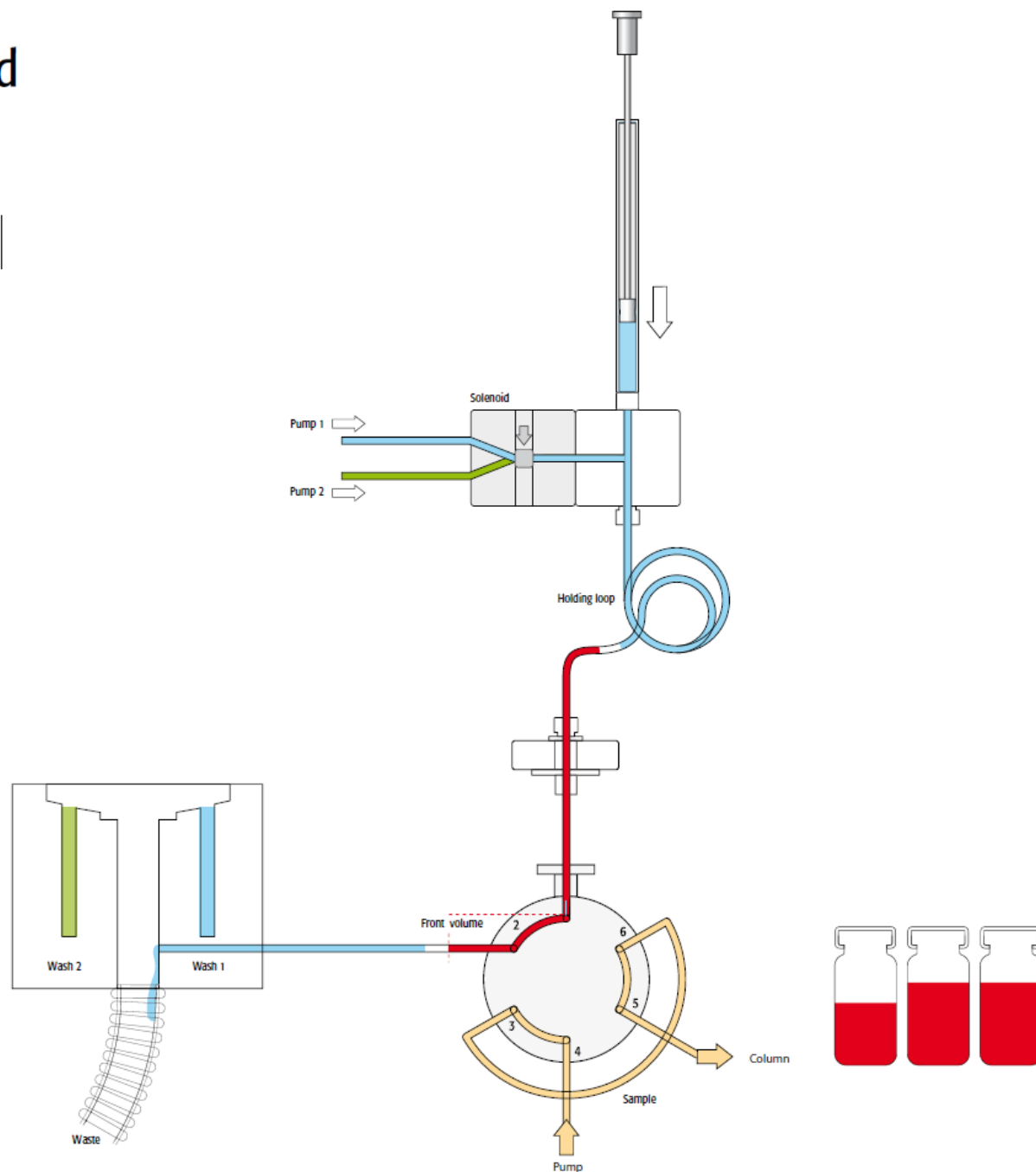
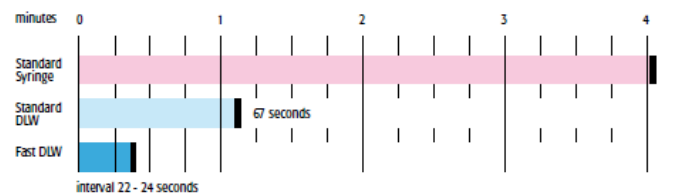
aspirate front air segment



Fast DLW

Steps 5 - 6

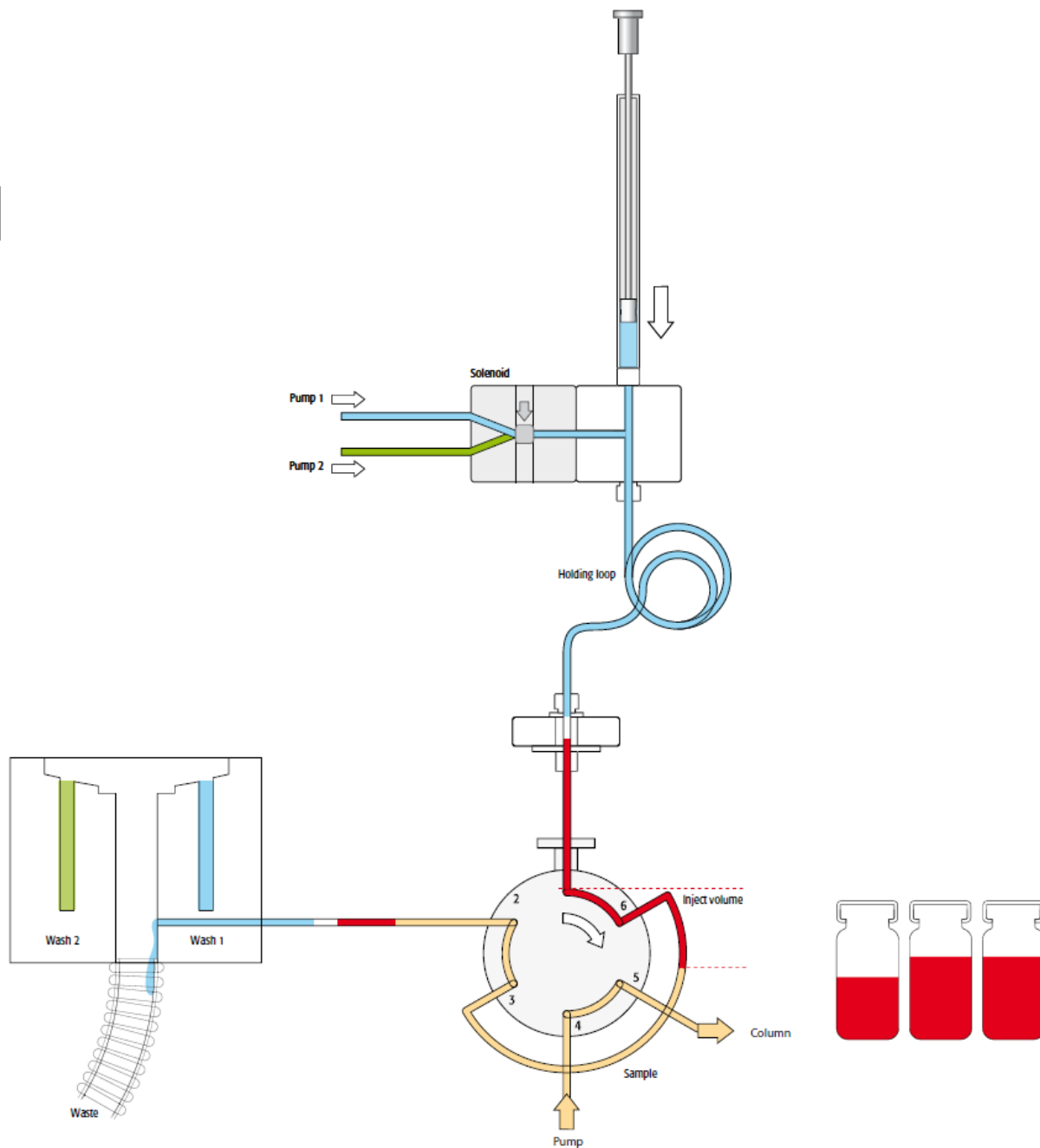
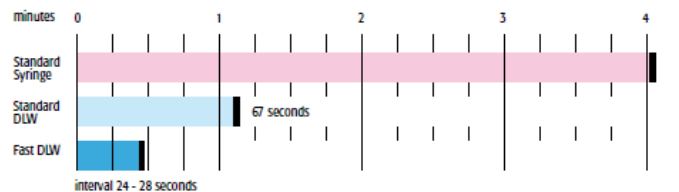
dispense front air segment and
front sample volume to waste



Fast DLW

Steps 7-8

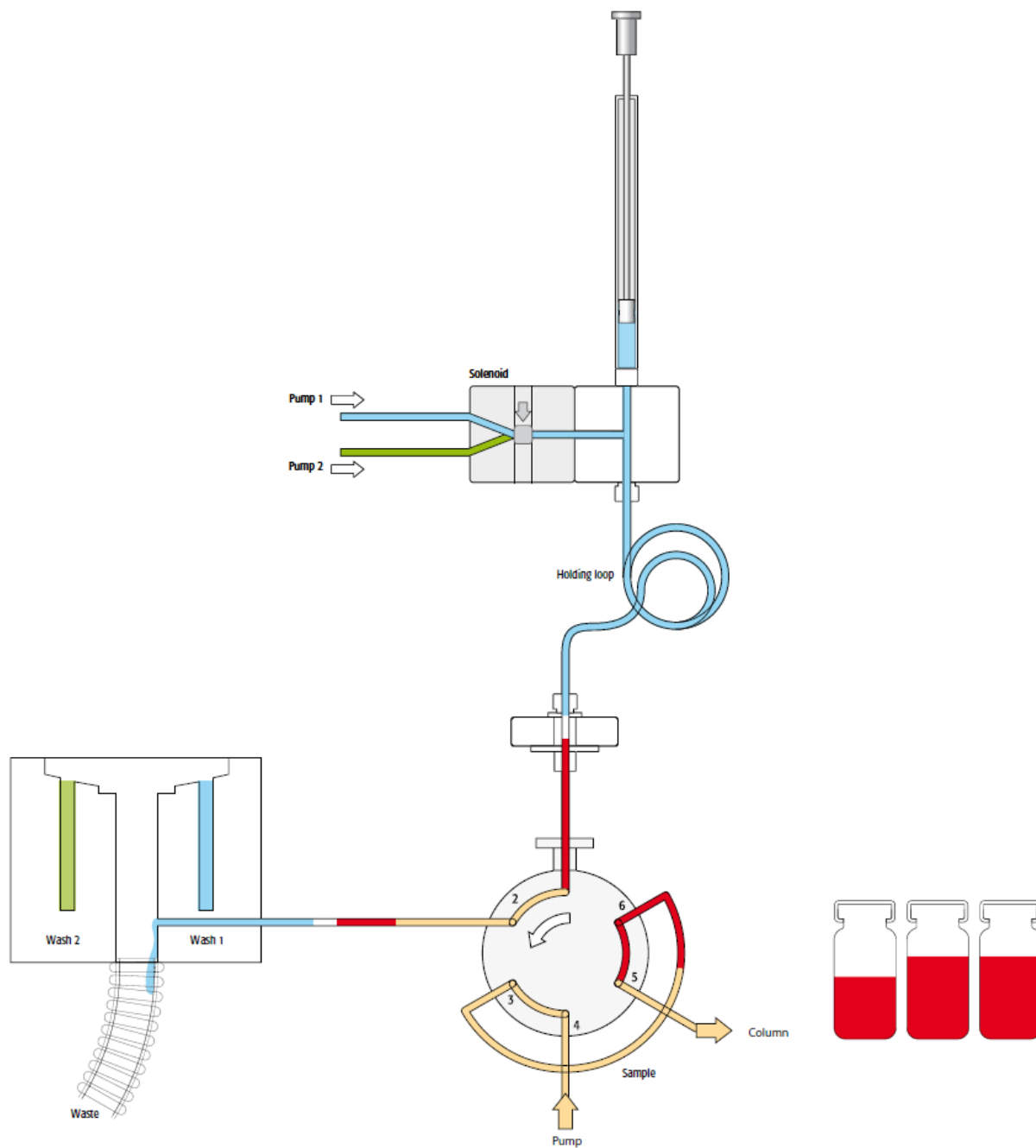
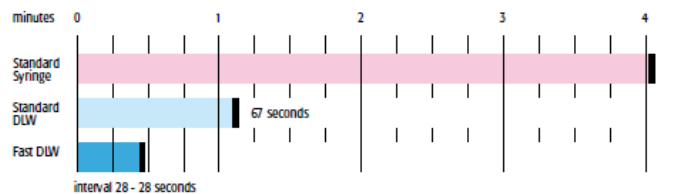
valve to load position
and load inject volume



Fast DLW

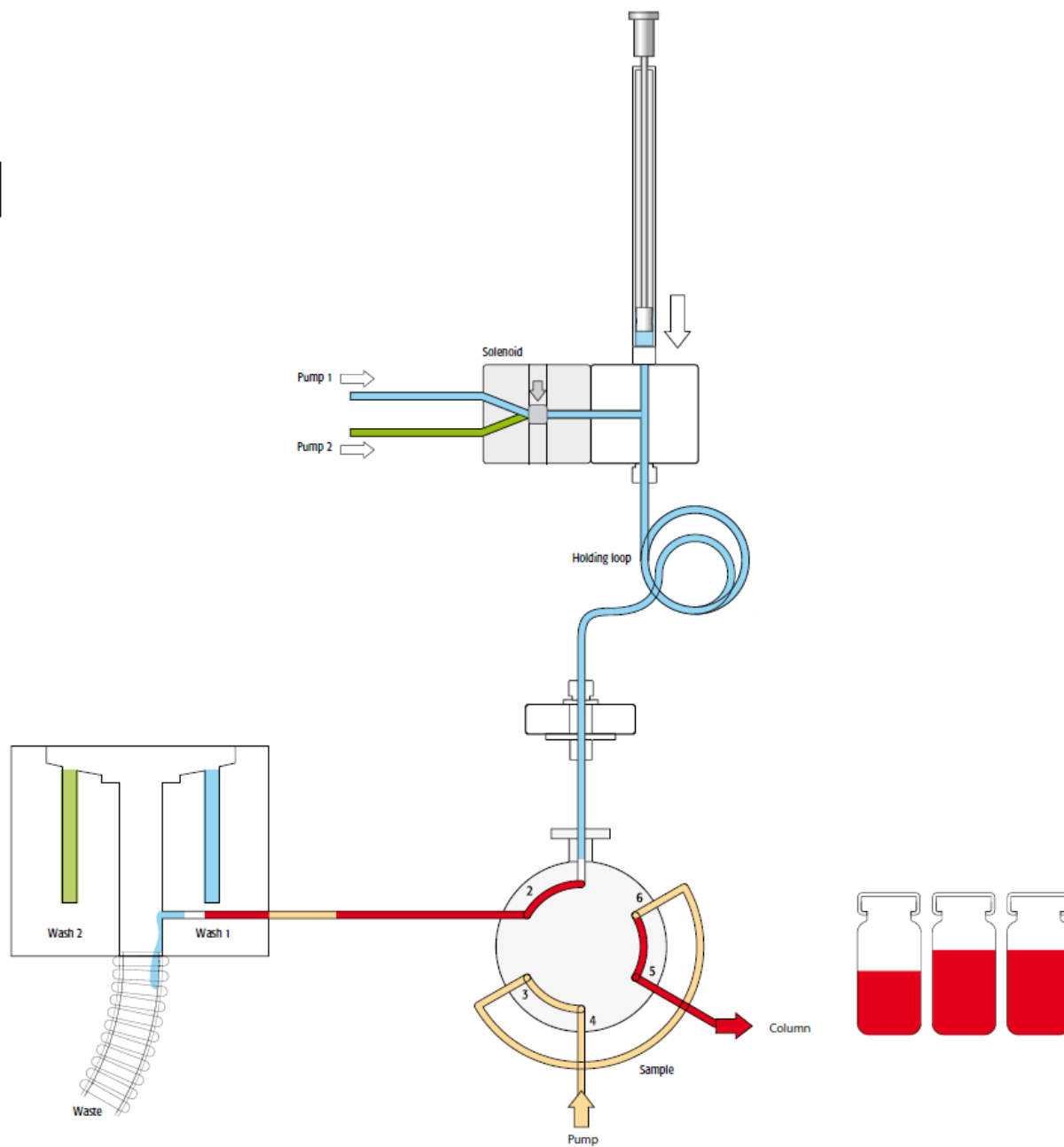
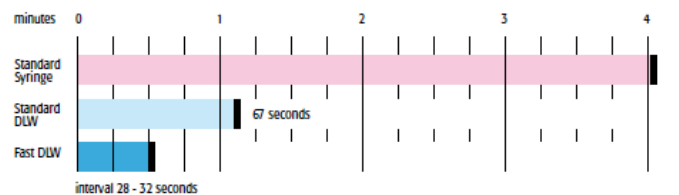
Steps 9

valve to inject position and
start chromatography

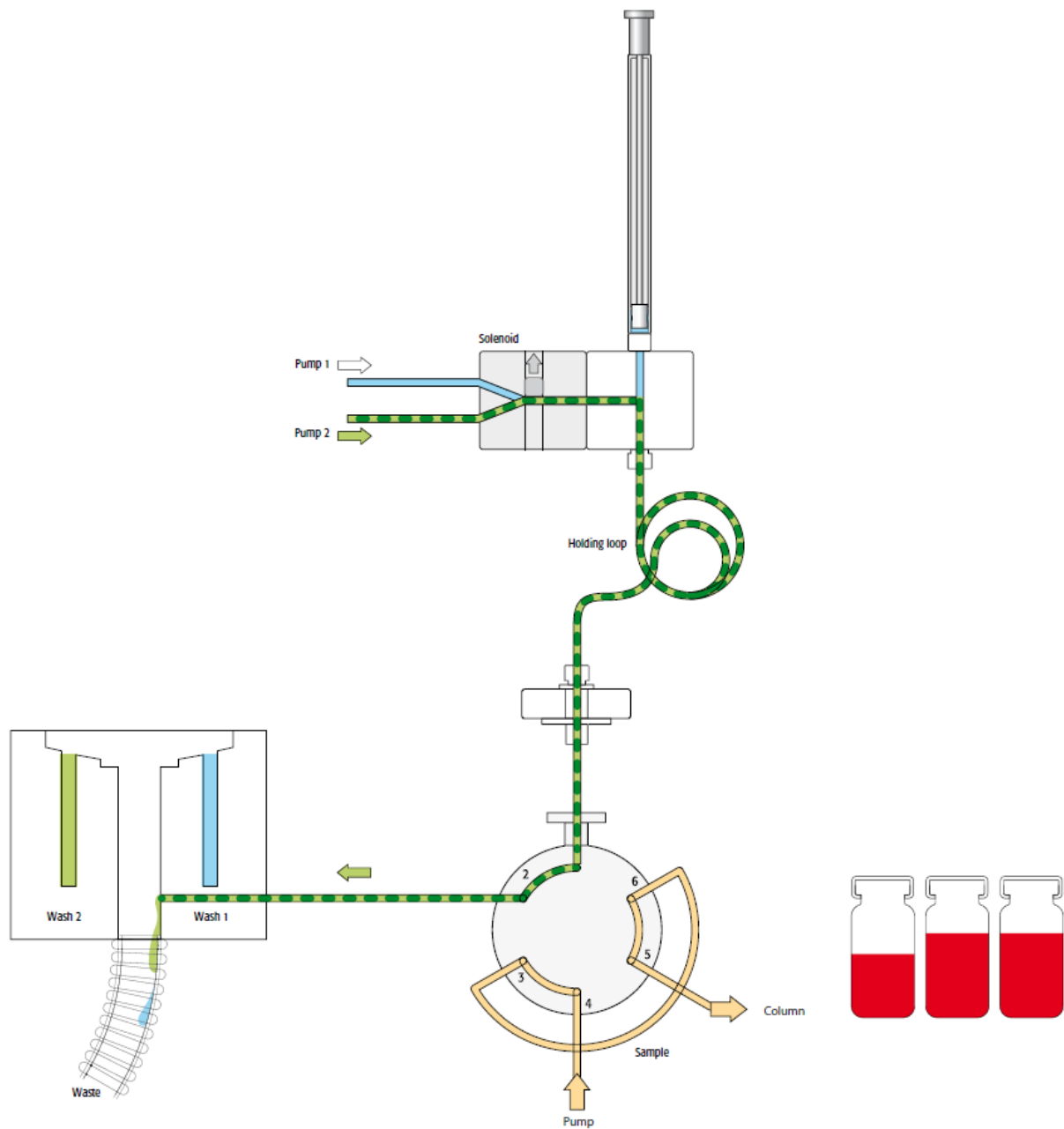
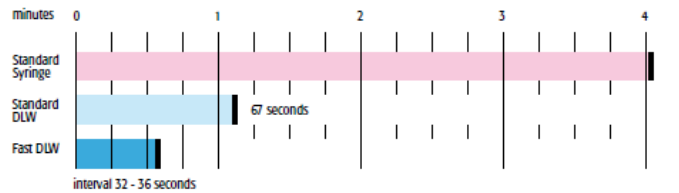


Fast DLW ^{Steps 10}

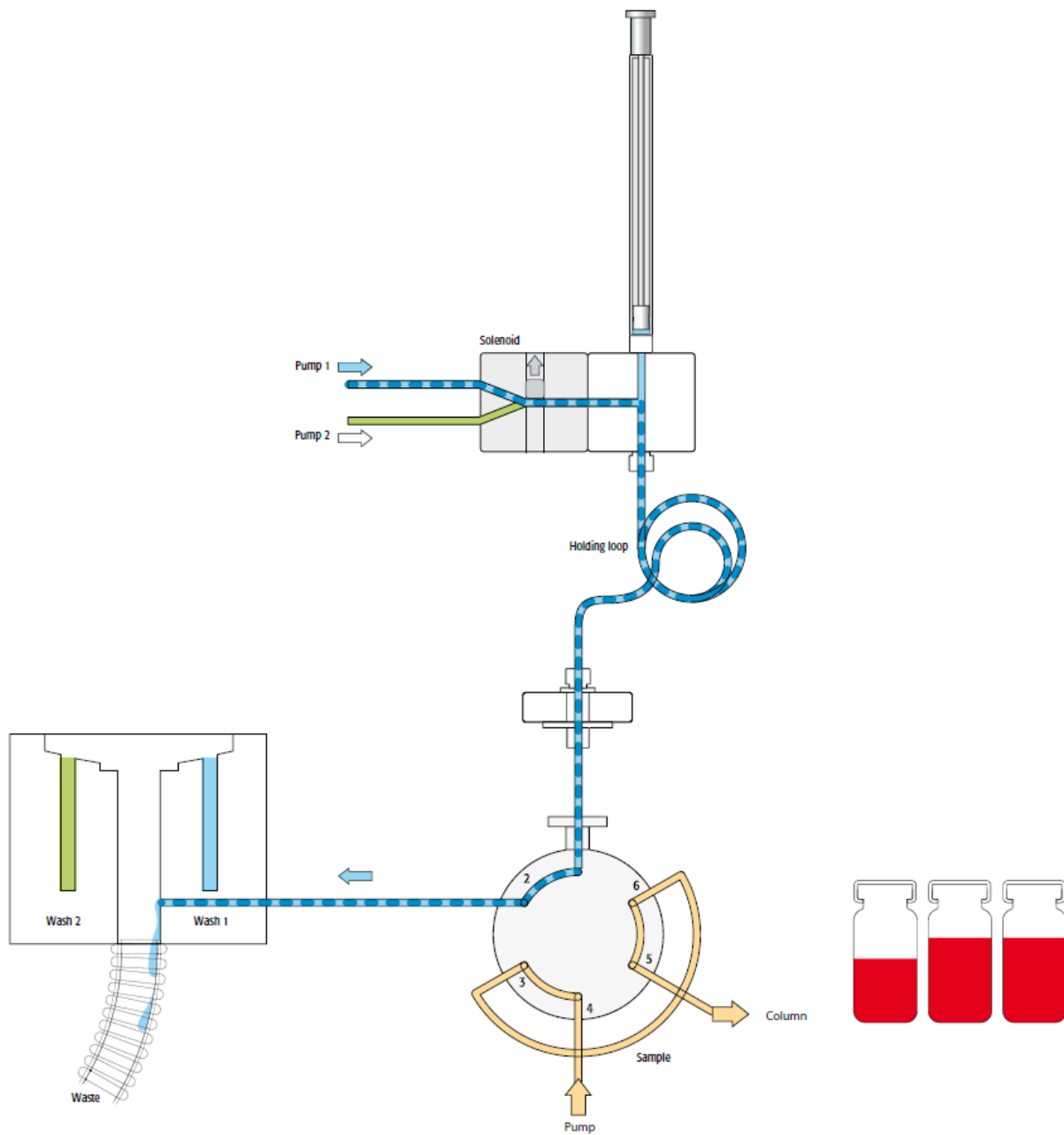
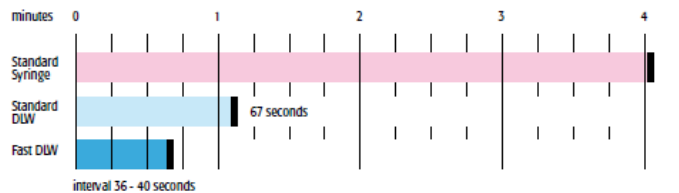
dispense rear sample
and air segment to waste



valve clean with wash liquid 2

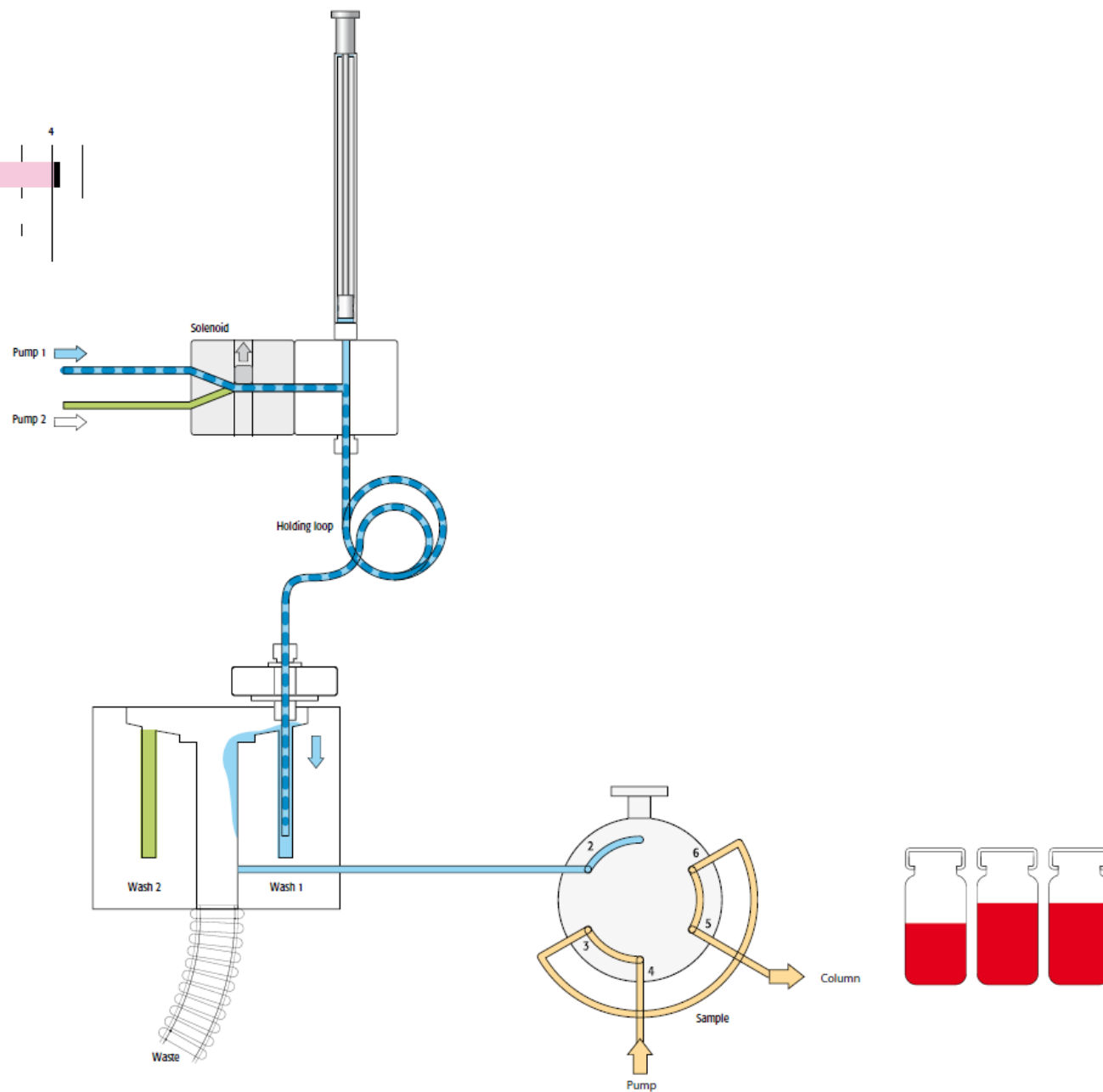
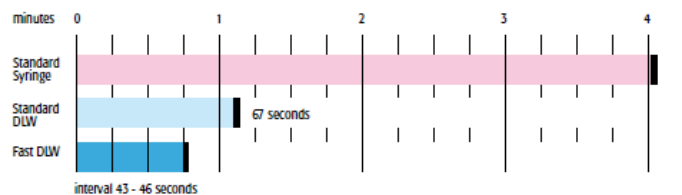


valve clean with wash liquid 1



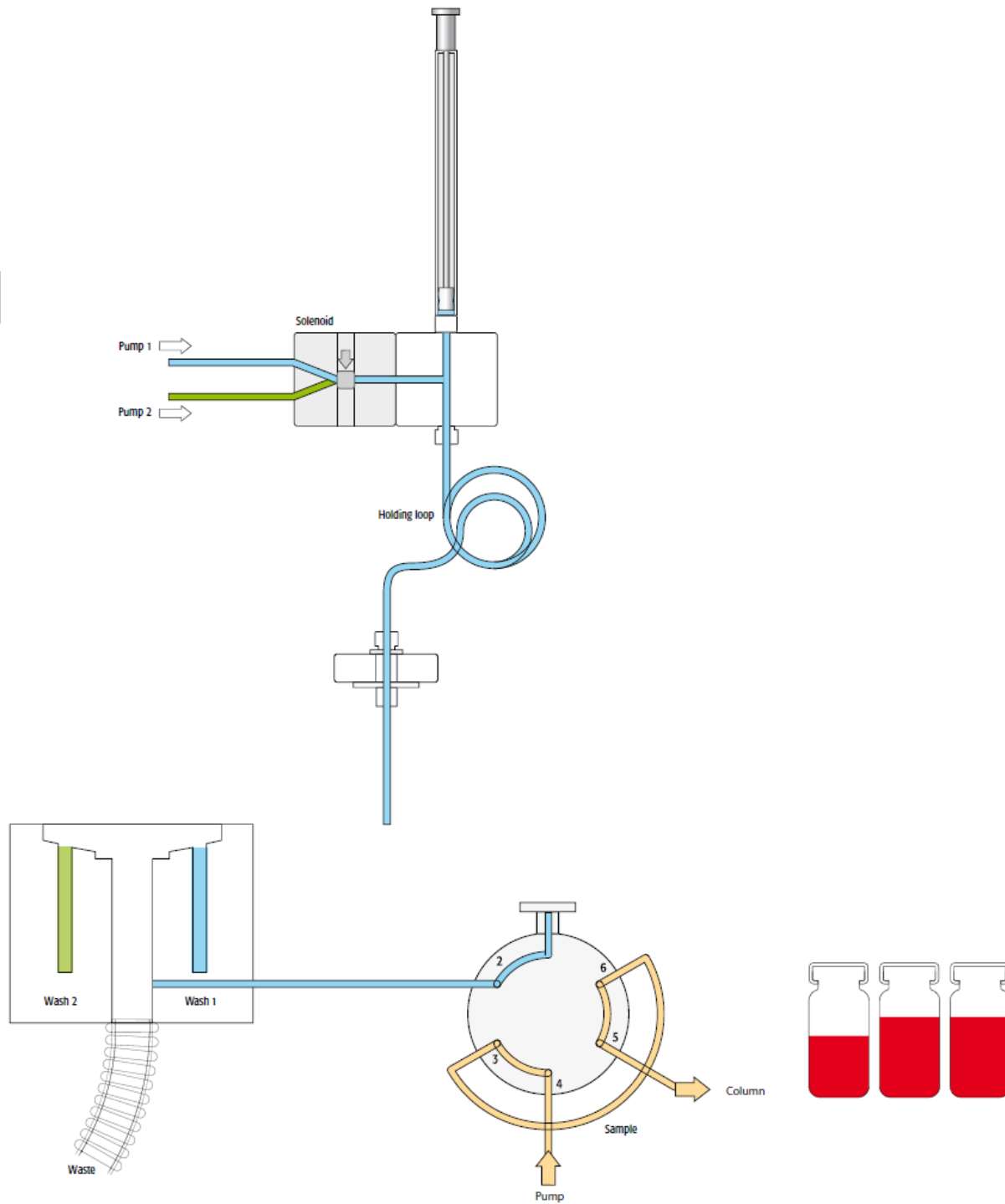
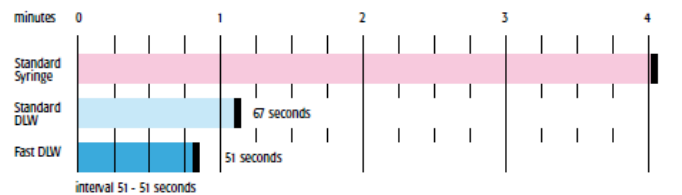
Fast active needle wash with wash liquid 1

Steps 15

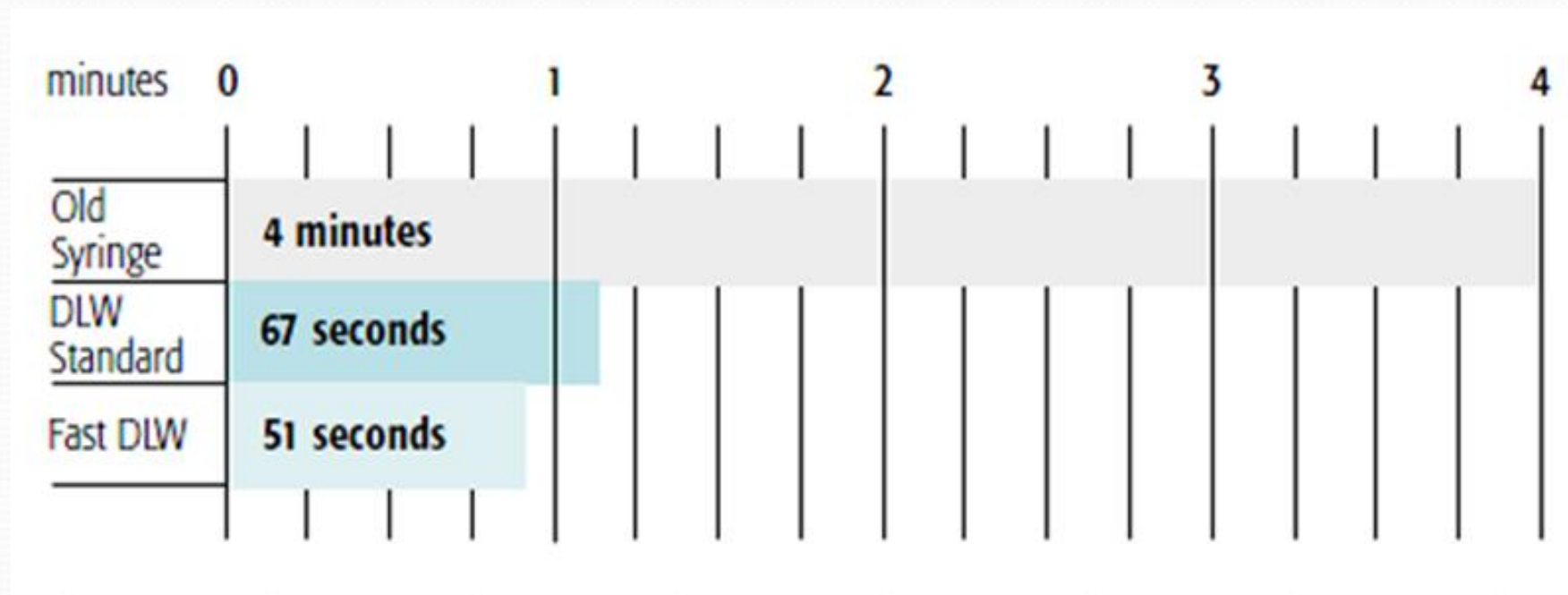


Fast DLW cycle end

Steps 16



Time and solvents



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