CLAIMS

1. A manifold assembly for use with a filter capsule having a first fitting and a second fitting, the manifold assembly comprising:

(a) an upper adjustable frame arrangement comprising a block comprising a through hole for receiving the first fitting, a first side wall, a second side wall, a front wall, and a rear wall, the rear wall including a locking pin opening and a cavity for receiving a linear guide comprising a grooved plate, wherein the linear guide is mounted to the block and is arranged to guide the upper adjustable frame arrangement vertically between a first position and a second position; a slidable handle arranged on the first side wall; a slot in the first side wall; a slidable locking pin arranged in the block, the slidable locking pin having an end, wherein the slidable locking pin can be extended from the block through the locking pin opening upon slidably moving the handle horizontally, wherein the slidable handle is connected to the slidable locking pin by at least one retainer passing through the slot in the first side wall, wherein the slidable handle can move the slidable locking pin to slide the locking pin end into a first opening to lock the upper adjustable frame arrangement in the first position, and to slide the locking pin end into a second opening to lock the upper adjustable frame arrangement in the second position, wherein the upper adjustable frame arrangement is movable along the linear guide between the first and the second positions when the locking pin end is not in the first opening or the second opening;

(b) a lower frame arrangement comprising a through hole for receiving the second fitting; and,

(c) a manifold frame connected to the upper adjustable frame arrangement and connected the lower frame arrangement, the manifold frame including the first opening and the second opening.

2. The manifold assembly of claim 1, further comprising an indicator showing an operator of the manifold assembly that the filter capsule has been installed in the

correct position and/or that the upper adjustable frame arrangement is locked in the second position

3. A method for engaging a filter capsule in a manifold assembly, the method comprising placing a filter capsule having a first fitting and a second fitting into a manifold assembly comprising:

(a) an upper adjustable frame arrangement comprising a block comprising a through hole for receiving the first fitting, a first side wall, a second side wall, a front wall, and a rear wall, the rear wall including a locking pin opening and a cavity for receiving a linear guide comprising a grooved plate, wherein the linear guide is mounted to the block and is arranged to guide the upper adjustable frame arrangement vertically between a first position and a second position; a slidable handle arranged on the first side wall; a slot in the first side wall; a slidable locking pin arranged in the block, the slidable locking pin having an end, wherein the slidable locking pin can be extended from the block through the locking pin opening upon slidably moving the handle horizontally, wherein the slidable handle is connected to the slidable locking pin by at least one retainer passing through the slot in the first side wall, wherein the slidable handle can move the slidable locking pin to slide the locking pin end into a first opening to lock the upper adjustable frame arrangement in the first position, and to slide the locking pin end into a second opening to lock the upper adjustable frame arrangement in the second position, wherein the upper adjustable frame arrangement is movable along the linear guide between the first and the second positions when the locking pin end is not in the first opening or the second opening;

(b) a lower frame arrangement comprising a through hole for receiving the second fitting; and,

(c) a manifold frame connected to the upper adjustable frame arrangement and connected the lower frame arrangement, the manifold frame including the first opening and the second opening;

placing the second fitting into the through hole of the lower frame arrangement; moving the upper adjustable frame arrangement from the first position to the second position and placing the first fitting in the through hole of the upper adjustable frame arrangement; and moving the movable handle to lock the upper adjustable frame arrangement in the second position.

4. The method of claim 3, further comprising passing fluid through the filter capsule.