CLAIM(S):

1. A filter capsule comprising

(a) a hollow filter capsule housing having an upper hollow housing portion including an inlet, the upper hollow housing portion including an upper bowl portion, a secondary upper bowl portion including a secondary upper bowl portion fluid flow port and a secondary upper bowl portion inner diameter; an intermediate hollow housing portion; a lower hollow housing portion including an outlet, the lower hollow housing portion including a lower bowl portion, a secondary lower bowl portion including a secondary lower bowl portion fluid flow port; and defining a fluid flow path between the upper hollow housing portion and the lower hollow housing portion;

(b) a filter module comprising a hollow cylindrical porous filter arranged between an inner core and an outer cage, wherein the filter module is arranged in the housing across the fluid flow path, the filter module having an upper end cap with a central opening and a lower end cap with a central opening;

(c) a module alignment element, arranged in the upper hollow housing portion and arranged to contact the upper end cap of the filter module, the module alignment element comprising an open top end, and a closed bottom end comprising a base, the open top end and the closed bottom end being connected by a plurality of spaced apart vertically arranged struts, the open top end including an outer side wall including a circumferential groove containing a resilient ring, the circumferential groove including two or more flattened portions formed in the side wall; the base comprising a plurality of horizontally arranged outwardly extending ears, the horizontally arranged outwardly extending ears extending beyond the inner diameter of the secondary upper bowl portion; and,

(d) a hollow cylindrical cap end, arranged in the lower hollow housing portion and contacting the lower end cap of the filter module, the hollow cap end comprising a side wall including at least one circumferential groove containing a resilient ring, the resilient ring

providing a seal when the cap end is arranged in the lower hollow housing portion.

2. The filter capsule of claim 1, further comprising:

(e) a valve in fluid communication with the upper hollow housing portion or the lower hollow housing portion.

3. The filter capsule of claim 1, further comprising:

(e) a first valve in fluid communication with the upper hollow housing portion and a second valve in fluid communication with the lower hollow housing portion.

4. The filter capsule of claim 2 or 3, wherein the valve or the valves each comprise a valve outlet port, a valve spindle, and an actuator knob, and operation of the actuator knob moves the valve spindle to open and close the valve without moving the valve outlet port.

5. A method of filtering fluid, the method comprising:

passing fluid through the filter capsule of any one of claims 1, 2, and 3.

6. The method of claim 5, further comprising, after passing fluid through the filter capsule, introducing filtered air into the filter capsule, and obtaining additional filtered fluid.

7. The method of claim 6, wherein introducing filtered air into the filter capsule comprises opening a valve in fluid communication with the upper hollow housing portion and introducing the filtered air through the valve.

8. A fluid processing system comprising

a container suitable for containing a source fluid;

the filter capsule of any one of claims 1, 2-4, in fluid communication with the container.