CLAIMS

1. A bottle trap for a waste outlet, the bottle trap comprising:

a trap body defining an inlet and an outlet, the trap body including an insert tubular member, inserted via the inlet and being arranged relative to the inlet and the outlet such that flow through the bottle trap is defined by a convoluted flow path between the trap inlet and the trap outlet such that in use a water seal exists between the trap inlet and the trap outlet, wherein a flow axis of the trap outlet is oriented substantially perpendicular to a flow axis of the trap inlet;

a diaphragm one-way flow valve located adjacent the trap inlet and housed within the insert, wherein the diaphragm one-way flow valve comprises a tubular body, which is open at a first end adjacent the trap inlet and is normally closed at a second end, wherein the normally closed second end is defined by a flattened form, wherein the second end opens only as fluid passes through the valve from inlet to outlet thereby permitting flow of fluid from the trap inlet to the trap outlet but preventing flow from the trap outlet to the trap inlet; and

an outlet one-way pressure valve located above and adjacent the trap outlet, wherein the outlet one-way pressure valve comprises a pressure valve inlet and a pressure valve outlet;

wherein the trap outlet is displaced from the trap body by means of an outlet neck and wherein the outlet neck extends from the trap body and wherein the pressure valve outlet is connected in fluid communication to an outlet passageway defined by the outlet neck,

wherein, in use, in the presence of a negative pressure differential across the outlet one-way pressure valve, the outlet one-way pressure valve is operable to allow air to pass through the outlet one-way pressure valve to relieve the pressure

differential but in the presence of a positive differential across the outlet one-way pressure valve, the outlet one-way pressure valve is operable to prevent air passing through the outlet one-way pressure valve.

2. The bottle trap according to claim 1, wherein the pressure valve inlet comprises a pressure valve member.

3. The bottle trap according to claim 2, wherein the pressure valve member is positioned with respect to the pressure valve outlet such that the pressure valve member is located above the trap body outlet.

4. The bottle trap according to claim 2, wherein the pressure valve member is operable to move between a pressure valve open position and a pressure valve closed position and to move from a pressure valve closed position to a pressure valve open position in the presence of a threshold pressure.

5. The bottle trap according to claim 4, wherein the pressure valve member is operable to move between the pressure valve open position and the pressure valve closed position in the presence of a negative pressure differential across the pressure valve member.

6. The bottle trap according to claim 2, wherein, in use, the pressure valve inlet and the pressure valve outlet lie on different vertical planes, wherein the direction of flow through the pressure valve inlet and the direction of flow through the pressure valve outlet 36 are parallel but displaced apart.

7. The bottle trap according to claim 6, comprising a gravity driven pressure valve member.

8. The bottle trap according to claim 2, further comprising a void above the pressure valve member, wherein the void defines an air pocket, which provides a barrier between the pressure valve outlet and the pressure valve inlet.