

## COMPONENT PARTS OF THE DOSING SYSTEM



### DOSING PUMP

4:1 Means that there are 4 pulses out from the **dosing pump** per input pulse from the **water flow meter**.

Stroke length. This control is for fine tuning.

Multifunction switch. When the multifunction switch is set to **EXTERN** this means the **dosing pump** is set to receive signals/pulses from the **water flow meter**.

To prime the **dosing pump** the multifunction switch can be set to 100 to give a manual suction/delivery.



### SUCTION LANCE

The **suction lance** combines three tubes.

One tube is suction from the **dosing pump**.

The other two tubes are returns from the bleed valves on the **multifunctional head** (attached to the **dosing pump**) back to the chemical reserve drum.

## COMPONENT PARTS OF THE DOSING SYSTEM continued

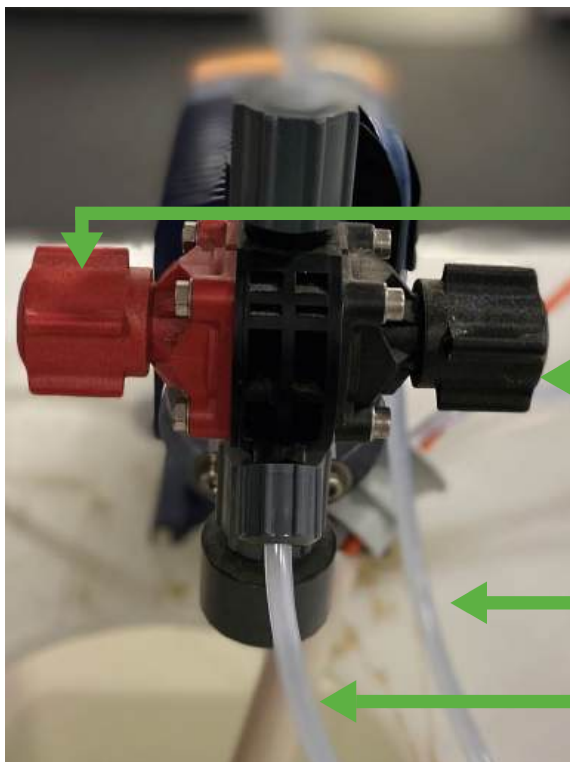


### SUCTION LANCE BASE

#### Float.

When chemical reserve level is low, the warning light on the **dosing pump** will turn from green to yellow.

When the chemical reserve drum is empty the warning light on the **dosing pump** will turn red and the pump will stop operating.



### MULTIFUNCTIONAL HEAD

The red valve knob is used to prime the **dosing pump**.

The black valve knob is used to release pressure in the injection line.

The tubes from the **multifunctional head** bleed the **dosing pump** returning gas/vapour to the chemical reserve drum via the **suction lance**. This enables the **dosing pump** to operate at a constant pressure to ensure a consistent flow rate.

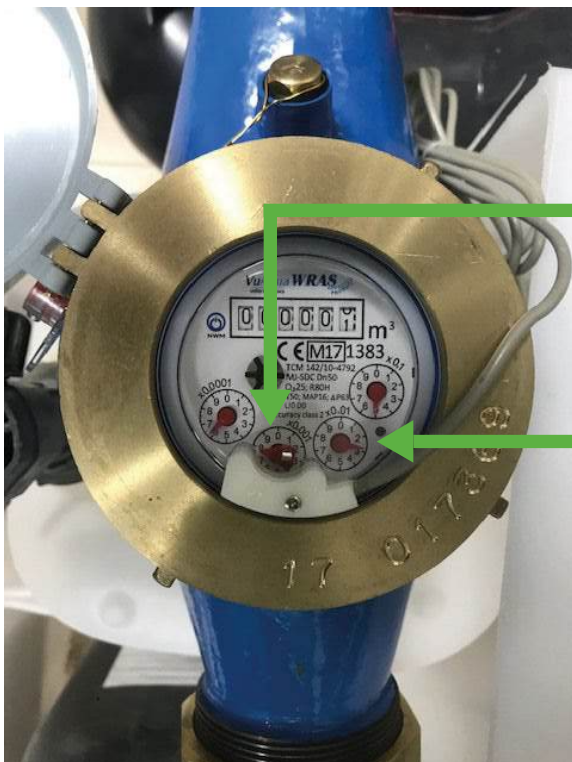
## COMPONENT PARTS OF THE DOSING SYSTEM continued



### INJECTION NOZZLE

The **injection nozzle** is ½" BSP male. The assembly incorporates a non-return valve.

The extended end can be cut off if the **injection nozzle** goes directly into the pipe.



### WATER FLOW METER

The magnet is attached to the 0.001 gauge this signifies the "K" factor is 10. A "K" factor of 10 means that there is one pulse out per 10 litres of water.

If the magnet were attached here (the 0.01 gauge) then the "K" factor would be 100. One pulse out per 100 litres of water.

## COMPONENT PARTS OF THE DOSING SYSTEM continued



### PULSE CONTROL CABLE

Black and brown wires are wound together here.

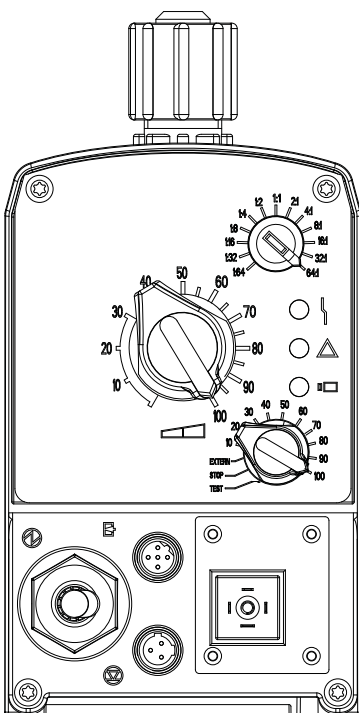
White wire here.

The wires from the water flow meter are attached here. It doesn't matter which way around they are.

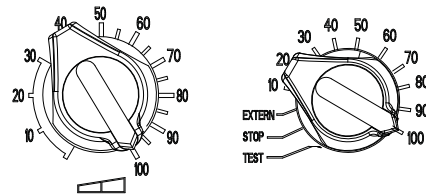
To test the pulse, attach a short piece of wire here and touch the other side here.

The pulse should be heard from the pump in Extern mode.

## PRIMING THE PUMP



To prime the pump, set the stroke length to 100% and the multifunctional switch to 100% manual.



Hold the Red Knob on the multifunction head against the spring until the pump is primed. Then release the red knob.

The pump will then send the EndoSan to the injection tube.

The black knob on the multifunction head is for releasing pressure in the injection line. If the injection line needs to be removed, hold the black knob against the spring for a few seconds. This means that when the tube is disconnected, the line will not "squirt" liquid out.