Nitro-Jet – Valve Operations/Settings

All models of the Nitro-Jet use function valves and these carry out the same operations. See below where the Valves need to be positioned to carry out different operations:-

NEVER deadhead a valve, always turn in one complete movement.

Fill

Turn the Fill/Spray valve to the Fill position, while the Spray/Transfer valve needs to be turned to the Spray position. Please ensure the pump is primed before carrying out the filling process. <u>Always</u> have the Master On/Off in the off position when filling.

Spray

Turn the Fill/Spray valve to the Spray position, while the Spray/Transfer valve needs to be turned to the Spray position. Master On/Off needs to be in the in position to spray.

Transfer

Turn the Fill/Spray valve to the Spray position, while the Spray/Transfer valve needs to be turned to the Transfer position. <u>Always</u> have the Master On/Off in the Off position when transferring.

Flush System

To flush the system correctly, fill with clean water. Then spray and transfer out (Refer to Operators Manual). To flush the pipe system out, connect your filling hose to a clear water supply. Position the Fill/Spray valve to the Fill position, while the Spray/Transfer valve is turned to the Transfer position. This will pump clean water through the pumping system. <u>Always</u> have the Master On/Off in the Off position when carrying out this process.

Setting hydraulic oil flow

The Nitro-Jet hydraulic driven pump must be connected to a pressure free return oil supply of approximately 35I/min. Ensure the hydraulic pipes are connected correctly to the tractor. These are marked on the motor casing "P" Feed and "T" Return.

Note:- To set the tractor spool oil flow to zero, ensure liquid is in the tank and the valves are turned to spray. Turn the Nitro-Jet monitor on and in Manual mode to spray with the butterfly valve completely open. Engage the spool and increase the oil flow until the pressure on the Nitro-Jet monitor is 4.5Bar. Do not exceed this as it may damage the motor and pump.

Operators Manual <u>MUST</u> be read completely before using your Nitro-Jet liquid fertilizer applicator

Nitro-Jet -Calibration

Calibration adjustment

After jug test.

Carry out jug test in Manual Mode for 1 minute and a set pressure, e.g. 3bar

Enter "Cal 1" scroll to the Nozzle Wizard channel and select which nozzle to

program. Press and hold the key, the screen will display the pressure jug

tested at "P" e.g. 3.00bar, use the '+' / '-' keys to adjust. Release the \bigcirc key and quickly press and hold again. The screen will display the nozzle flow reading "F" e.g. 1.20l/min/nozzle, use the '+' / '-' keys to adjust. Set this to same volume



collected in jug during jug test. Release the ^(C) key and switch the monitor off and on to store information. Calibration is now complete.

Nitro-Jet - Information



- ADD CLEAN WATER TO MAIN TANK
- ENGAGE PUMP
- SPRAY THROUGH NOZZLES AS NORMAL
- TRANSFER EXCESS WATER THROUGH PUMP-OUT VALVE (INTO SUITABLE CONTAINER)
- DRAIN TANK VIA DRAIN VALVE
- FAILURE TO DO SO MAY VOID WARRANTY

Nitro-Jet Monitor - Functions

The five switches control all functions. The power On/Off switch is located on the rear of the monitor.



Nitro-Jet Monitor - Basic Operation

The Startup Routine

If the Nitro-Jet is already switched on when the instrument is switched on, the instrument will start regulating to the previously programmed rate, otherwise do the following:-

- 1. Turn the Nitro-Jet Monitor on.
- 2. Set (+/- keys) or confirm (📕 key) desired Target rate (I/ha)
- 3. Select the nozzle A H to be used.
 - **Press the (b) key** to select AUTO rate control and then switch the Nitro-Jet on to spray.

Adjust Target Rate after Startup



With channel 6 displayed, press and hold the \bigcirc key, and adjust the rate up or down using the '+' / '-' keys. The system will then adjust to meet the new target rate.

Vary application rate while working in AUTO mode

To temporarily vary the application rate in AUTO mode (e.g. to suit localized crop conditions), press the '+' / '-' keys to increase or decrease it in 5% steps.



s the \bigcirc key to return to the programmed target rate.

View/Reset the Area/Volume Totals

Select the area/volume channel to display the part total.

Press and release the \clubsuit key to display the full total.



key for 5 seconds to