

ON-SITE PREPARATIONS

Infrastructure requirements

In order to enable the operation of the NetaJet™ 4G it is essential to meet the specific requirements for each mode such as main line pressure and infrastructure conditions. See the relevant mode description (pages 14-24).



NOTE

To ensure flow rate stability, the consumption of the different irrigation shifts should be as equal as possible. Each changeover between shifts with different consumption will result in consumption fluctuation, affecting the EC and pH stability. The consumption of the smallest shift should not be less than 75% of the consumption of the largest shift.

Pump house (Filter house / Fertilizer house) requirements

Sufficient space should be available between the fertilizer/acid tanks and the NetaJet™ 4G to allow inspection and maintenance operations.



CAUTION

The NetaJet™ 4G should be:

- placed in a roofed building
- protected from direct sunlight
- kept at an ambient temperature between 10°C and 40°C (50°F and 104°F)
- kept at a maximum relative air humidity of 85%
- properly ventilated
- protected from dust
- protected from splashes or direct spraying with water or chemicals



NOTE

In order to prevent penetration of fertilizer or acid into the soil, it is recommended that the floor of the pump house have a minimum slope of 1% towards a gutter at its lower edge and an underground tank at the lower end of the gutter, enabling drainage of any spill or excess.

The water distribution system

For the setup of the water distribution system, the following components should be installed according to the mode of the NetaJet™ 4G. See the relevant mode description (pages 14-24)

Components of the water distribution system

Component	Specifications
23 Main line pump	Suitable for flow rate satisfying the maximum field requirement (ensure stable pressure).
24 Main line filter	≤ 130 μm (≥ 120 mesh).
25 Main line water meter	With electrical pulses. The pulse should be as short as possible according to the filling line diameter and the controller's limitations. (See Recommended flow meter pulse rate table , page 29)
26 Main line PSV	Installed on the main line upstream from the irrigation valves.
27 Manual valve (isolation)	Manual ball valves at the NetaJet™ 4G inlet and outlet. For isolation of the NetaJet™ 4G during maintenance
28 Irrigation valve	
29 Fertilizer/acid filter	≤ 130 μm (≥ 120 mesh)
30 Manual valve (fertilizer)	A manual ball valve on each fertilizer/acid line at the stock tank outlet
31 Fertilizer/acid stock tank	Up to 8 fertilizer/acid solution stock tanks.

ON-SITE PREPARATIONS

The fertilizer/acid tanks and lines

For the setup of the fertilizer/acid tanks and lines, the following components should be installed:

Items of the fertilizer/acid tanks and lines

Component	Specifications
13 Fertilizer/acid stock tank	Between 1 and 6 fertilizer/acid solution stock tanks
14 Manual valve (fertilizer)	A manual ball valve on each fertilizer/acid line at the stock tank outlet
15 Fertilizer/acid filter	≤ 130 μm (≥ 120 mesh)

The following aspects should be taken into account:

- Ensure the stock tanks are of sufficient size for storage of at least one day's consumption.
- Sufficient space should be available between the fertilizer/acid tanks and the NetaJet™ 4G, to enable inspection and maintenance operations.
- For the connection of fertilizer supply lines to the NetaJet™ 4G, use a transparent, chemical-resistant, reinforced PVC water hose with an internal diameter of 16 mm that will not contract when there is a vacuum in the system.
- Use properly sealing stainless steel band clamps for the fertilizer/acid hose connection, type SS 316.



CAUTION

After completion of the hydraulic infrastructure, before the installation of the NetaJet™ 4G, rinse the hydraulic infrastructure and fertilizer/acid lines and tanks by running water through them in order to wash away any residues (chips, shavings, sawdust) from the setup work.

Hydraulic infrastructure preparation

The hydraulic infrastructure preparations should be performed according to the mode of the NetaJet™ 4G to be installed. Before performing the infrastructure installation, see the typical setup for the specific mode of NetaJet™ 4G to be installed (pages 14-24).

Required infrastructure proportions*

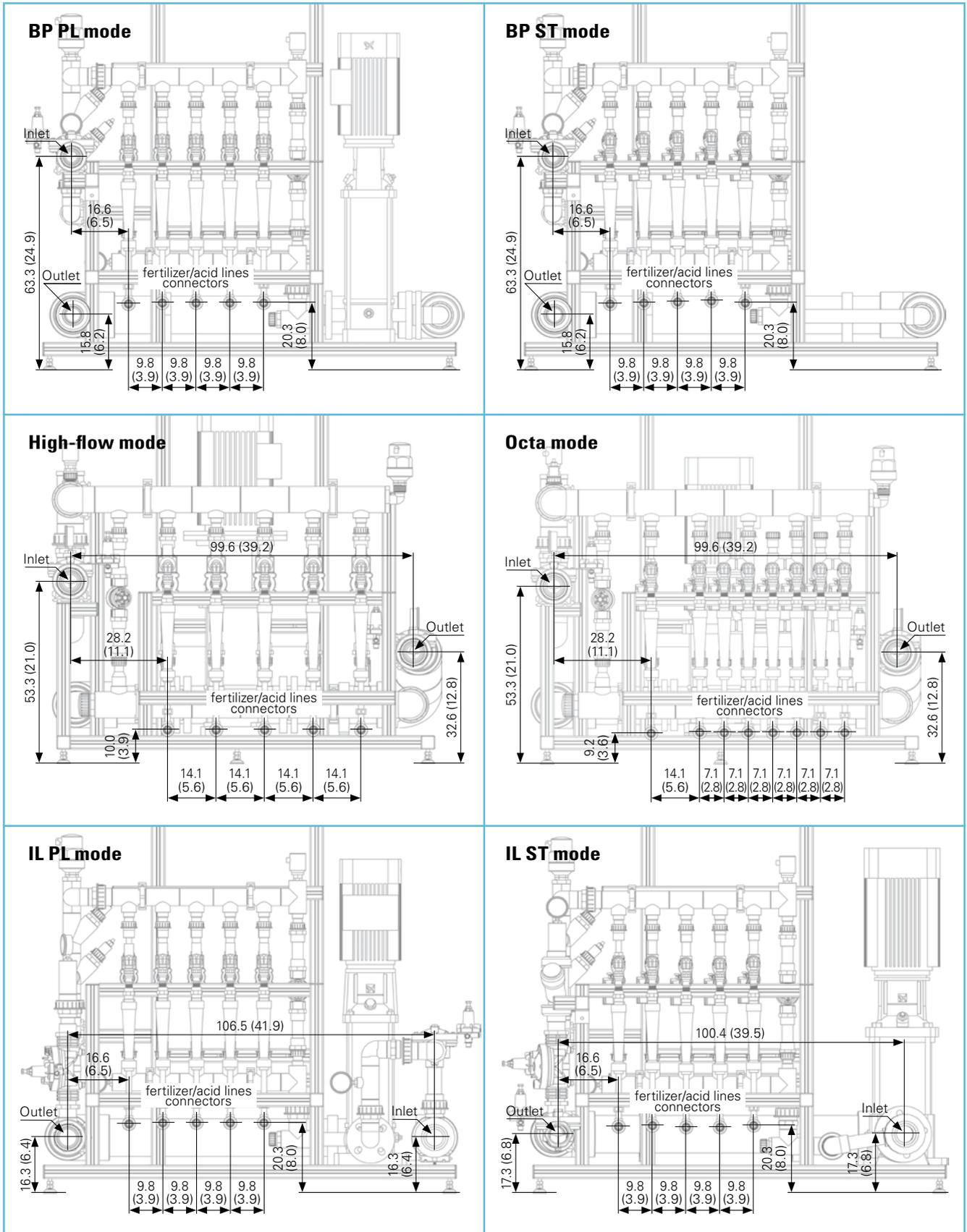
To enable optimal operation of the NetaJet™ 4G, piping must maintain the following proportions.

Description	Required proportions
D Main line - pipe diameter	
d Fertilizer/acid lines - pipe diameter: <ul style="list-style-type: none"> • 32 mm (1¼") for dosing channels of up to 400 l/h (106 GPH) • 40 mm (1½") for dosing channels of over 400 l/h (106 GPH) 	
X ₁ Distance upstream from water meter. Pipe must be straight, of uniform inside diameter and without any accessory that may cause turbulence	10 x D
X ₂ Distance downstream from water meter. Pipe must be straight, of uniform inside diameter and without any accessory that may cause turbulence	5 x D
X ₃ Distance between inlet and outlet locations on the main line. "L" shape recommended for better mixing	Min. 2 m (6.5 ft)
X ₄ Length of inlet and outlet pipes	Less than 3 m (10 ft)
X ₅ Length of fertilizers or acid lines	Less than 10 m (33 ft)
H Elevation of the fertilizer/acid tanks	Higher than 30 cm (12")
W Water level allowed in the storage tank	Max. 5 m (16.5 ft)

*Refer to the typical setup illustration for each mode, pages 14-24).

ON-SITE PREPARATIONS

Location of inlet, outlet and fertilizer/acid line connectors - cm (in)



*The height varies by ± 1 cm (± 0.5 ") according to the adjustment of the legs.

ON-SITE PREPARATIONS

Recommended flow meter pulse rate*

Flow rate m ³ /hr	Flow meter output l/pulse	Flow rate GPM	Flow meter output US gal/pulse
Up to 6	1	Up to 88	1
6-60	10	88-1000	10

*Compatible with Netafim™ NMC controllers. In cases where the NetaJet™ 4G is to be controlled by a third-party controller, consult Netafim™.

Electrical preparation

Mains connection



CAUTION

Only qualified electricians are permitted to perform electrical installations!

The following components must be provided for the installation:

- A readily accessible circuit breaker, rated according to the NetaJet™ 4G total rated power, certified as a branch circuit over current protector compliant with the national code and requirements.
- Grounding connection: $\leq 10 \Omega$.

Mains wire size

For all modes that include a dosing booster

For the selection of the wire size - consider the NetaJet™ 4G total rated power:

5 wires: GND, N, L1, L2, L3

Power source required (kW)	3 X 220-277 VAC	3 X 380-480 VAC
Up to 3	$\geq 2.5 \text{ mm}^2$ ($\leq 13 \text{ awg}$)	$\geq 2.5 \text{ mm}^2$ ($\leq 13 \text{ awg}$)
3-4	$\geq 4 \text{ mm}^2$ ($\leq 11 \text{ awg}$)	
4-6	$\geq 6 \text{ mm}^2$ ($\leq 9 \text{ awg}$)	
6-8	$\geq 10 \text{ mm}^2$ ($\leq 7 \text{ awg}$)	$\geq 4 \text{ mm}^2$ ($\leq 11 \text{ awg}$)

For the BP ST mode

The BP ST mode does not include a dosing booster. The mains feeds the controller only.

3 wires: GND, N, L

Power source required (W)	1 X 100-115 VAC	1 X 200-250 VAC
250	$\geq 1.5 \text{ mm}^2$ ($\leq 15 \text{ awg}$)	$\geq 1.5 \text{ mm}^2$ ($\leq 15 \text{ awg}$)

INSTALLATION

Unpacking and placement

Check the ShockWatch label attached to the packaging and ensure the indicator is white. If the indicator is red - follow the instructions on the ShockWatch label.

Using forklift, place the NetaJet™ 4G package close to the irrigation system.

Carefully open the packaging.

Remove the 4 screws and bolts connecting the NetaJet™ 4G to the wooden pallet.

Remove the plastic cover (if there is one) from the controller.

Place the NetaJet™ 4G in its position.

Adjust the legs so that the NetaJet™ 4G is steady.



Hydraulic installation



WARNING

Always use protective equipment, gloves and goggles when handling fertilizers, acid and other chemicals!

Main line inlet/outlet connection

Connect the appropriate pipes to the inlet and the outlet of the NetaJet™ 4G according to the mode of the system (see [Location of inlet, outlet and fertilizer/acid line connectors](#), page 28).

Mode	Diameter	
	PVC, adaptor union - glue connector (installed)	PVC, BSP or NPT nipple - male thread connector (supplied)
BP PL	50 mm	1.5"
BP ST		
High-flow	63 mm	2"
Octa - 8-channel		
IL PL		
IL ST		

Stock tank connection

Connect the fertilizer lines to the NetaJet™ 4G according to the mode of the system (see [Location of inlet, outlet and fertilizer/acid line connectors](#), page 28).

Three types of connection are available

Fittings (interchangeable)	Diameter
PVC, hose nozzle insert connector (installed)	16 mm
PVC, nipple - male thread connector (supplied)	1/2"
PVC, half union - female thread connector (supplied)	3/4"

INSTALLATION

Before connecting the flexi-tube, thread a stainless steel band clamp **A** on each flexi-tube hose.

Heat the tip of each flexi-tube hose in boiling water to make it flexible for insertion.

Connect the flexi-tube hose from the fertilizer lines to the hose-nozzle-insert connectors of the dosing channels **B**, ensuring 1/2 meter (1.7 feet) of transparent, chemical-resistant, reinforced PVC water hose with an internal diameter of 16 mm that will not contract when there is a vacuum in the system.

Attach the stainless steel band clamp on each flexi-tube connection **C** and secure tightly.

Flexi-tube specification:

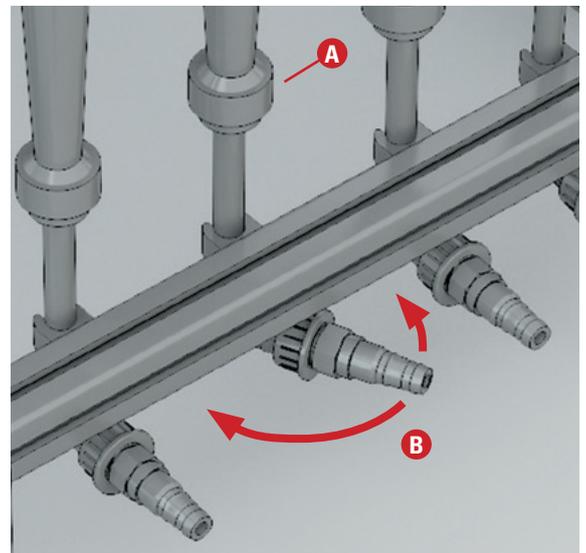
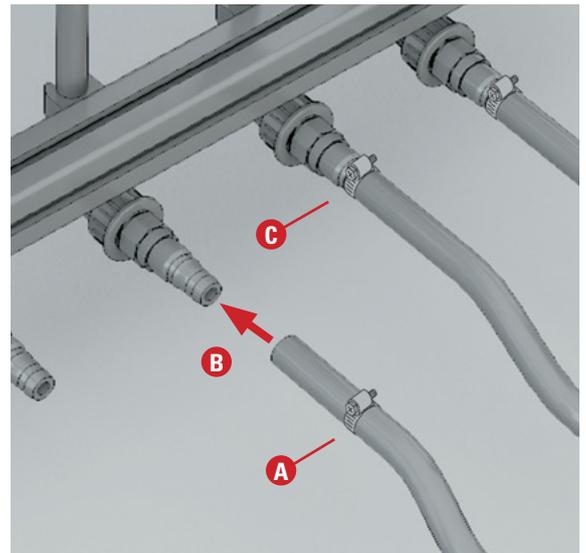
- 16 mm (1/2") reinforced EVA tubing.
- Material: EVA (ethylene vinyl acetate) tube compound specially formulated to meet USDA requirements.
- Polyester cord reinforcement with color tracer.
- Pressure: 18 to 20 Bar (250 to 300 PSI).
- Recommended temperature range: -23°C to +65°C (-10°F to +150°F).



TIP

You can rotate the hose connectors of the dosing channels to face the desired direction according to the location of the stock tanks.

Loosen the Rotameter's lower connector **A**, rotate the hose connector to the desired direction **B** and fasten the Rotameter's lower connector **A**.



Electrical installation



CAUTION

Only qualified electricians are permitted to perform electrical installations!

Have a qualified electrician connect the NetaJet™ 4G to the mains.

Follow the instructions in the enclosed Switchboard Diagram.



ATTENTION

Make sure all the wire connectors and terminals are tightened before switching on the power!

SYSTEM OPERATION



NOTE

The following procedure describes the operations that should be performed, regardless of the type of controller in use. For the operation of a specific controller interface, see the enclosed Controller Manual.

Preparations for running the NetaJet™ 4G

For NetaJet™ 4G with a controller (onboard or external):

Run the controller and enter preliminary general settings (see the enclosed Controller Manual).

Ensure that the INPUT for protection against lack of pressure in the system is connected to the controller and defined. Set a delay of 15 seconds (see the enclosed Controller Manual).

Connect all the elements (valves, pumps, filters, sensors, etc.) to the controller (see the enclosed Controller Manual).

Manual test of controller outputs

Perform the test to make sure that all the elements (valves, pumps, filters, sensors, etc.) function properly upon command from the controller.

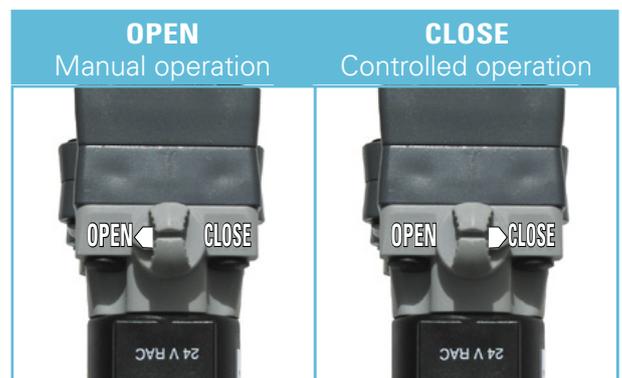
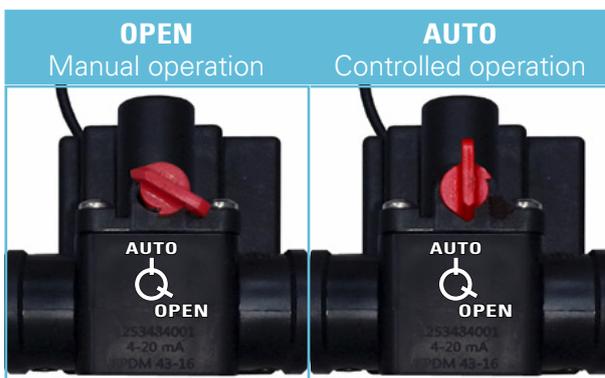
Run the test using the controller's TEST menu (see the enclosed Controller Manual).

Set the relay status of the dosing channels to MANUAL and make sure that the irrigation program is not defined (see the enclosed Controller Manual).



NOTE

- When using an analog dosing valve, make sure the dosing valve selector is in the AUTO position.
- When using a digital dosing valve (S22), make sure the dosing valve selector is in the CLOSED position.



To check that the dosing channels are working:

Analog dosing channel

Suction should be visible in the Rotameter.

Digital dosing channel

When the OPEN command from the controller is given - the LED on the dosing valve is lit.

SYSTEM OPERATION

Calibration of EC and pH sensors

Calibrate the EC and pH sensors (see the enclosed EC/pH Transducer Manual).



CAUTION

Do not operate the NetaJet™ 4G if the manual isolation valves installed at the inlet and outlet of the system are closed!



ATTENTION

Unions tend to get loose during transit.

Before operating the NetaJet™ 4G, tighten all the unions of the NetaJet™ 4G by hand.

Check for leaks



CAUTION

When opening or closing any manual valve, always do it gradually, to prevent damage to the system by water hammer.

- Make sure all the field valves are closed.
- Gradually open the isolation valves installed at the inlet and outlet of the system until the required main line pressure is attained.
Keep the system under static pressure for 10 minutes and check visually for leaks.
- Perform a simulation test with a 10-liter (2-US-gallon) bucket of water (see [page 35](#)).

Check the dosing booster operation



CAUTION

If isolation valves are installed at the NetaJet™ 4G inlet and outlet, ensure that they are open before running the dosing booster.

- Switch the dosing booster to ON.
- Check that the dosing booster is rotating in the correct direction (see the enclosed Dosing Booster Manual).



HIGH VOLTAGE ELECTRICAL HAZARD

Before unplugging the system from the main power source, switch the unit and the main power source OFF!

Running the NetaJet™ 4G

- Define a program in the controller for one valve or multiple valves (SHIFT) as defined in the irrigation plan (see the enclosed Controller Manual).
- In the first stage, it is recommended that you define a program with quantitative or proportional fertilization only, without EC/pH control (see the enclosed Controller Manual).
- Temporarily deactivate all alarms in the system - EC/pH, flow control, etc. (see the enclosed Controller Manual).
- Start the program and wait for the lines to be filled
(this takes a few minutes, depending on the size of the installation).
- Check that the flow and the pressure on the main line are stabilized (see the enclosed Controller Manual).
- Activate the dosing booster and the dosing channels.

SYSTEM OPERATION

- Check the main line flow meter and pressure gauge, the upper manifold and lower manifold pressure gauges and make sure all the hydraulic conditions are in range according to the main line pressure and flow conditions of the specific mode (see [page 39](#)).
- If the system cannot reach the hydraulic conditions, it is possible that there is an air pocket in the dosing booster's impeller chamber (see the enclosed Dosing Booster Manual):
- Open the NetaJet™ 4G sampling valve until a stable flow, free of air bubbles, is obtained.
- If the system still cannot reach the hydraulic conditions - loosen the dosing booster's bleeding screw and wait until a stable flow, free of air bubbles, is obtained and then retighten the bleeding screw (see the enclosed Dosing Booster Manual).
- Check the suction of the dosing channels from the stock tanks, and tune the desired flow rate for each dosing channel by adjusting the needle valve (see [Calibration of the NetaJet™ 4G while irrigating](#), page 37).
- Let the system run for about ten minutes and make sure it works properly.
- After setting the flow rate for each dosing channel, adjust the cursors on each Rotameter.



NOTE

The Rotameter's scale is calibrated by the manufacturer for measurement of the flow rate of water (H₂O). Certain inaccuracies may be observed when measuring the flow rate of liquids with different densities, such as fertilizers and acids.

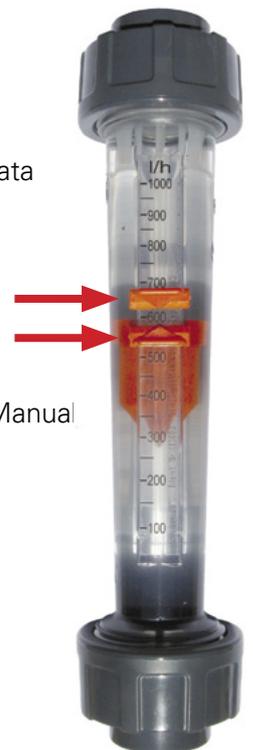
- If EC/pH measuring equipment is installed, measure the control cycle and enter the data into the controller - (see the enclosed Controller Manual).
- Stop the program.



ATTENTION

Restore the settings of all the alarms back to the state where adequate protection to the system and the crop is provided (see the enclosed Controller Manual)

If there is any problem during the process, see Troubleshooting in the NetaJet™ 4G User Manual provided with the NetaJet™ 4G and downloadable at <https://www.netafim.com/en/digital-farming/netbeat/Fertigation/netajet/>



DOSING CALIBRATION

The process of calibrating the NetaJet™ 4G dosing channels is carried out in three stages:

1. Calculation of dosing channel opening percentage

To finely calibrate the NetaJet™ 4G dosing channels in order to achieve homogeneous and stable dosing, perform the following calculation for each dosing channel (fertilizers and acids) to determine the amount of suction reduction needed to attain the required fertilizer/acid flow rate.

Metric units

Flow rate of the largest irrigation shift m³/hr
 X
 Dosing ratio of a single fertilizer/acid l/m³
 =
 Result: a single fertilizer/acid flow rate l/hr
 X 1.25 =
 Result: target Rotameter reading l/hr

EXAMPLE

<input type="text" value="120"/>	m ³ /hr
X	
<input type="text" value="3"/>	l/m ³
=	
<input type="text" value="360"/>	l/hr
X 1.25 =	
<input type="text" value="450"/>	l/hr

DEFINITION

Dosing ratio = $\frac{\text{The quantity of fertilizer/acid (l)}}{1 \text{ m}^3 \text{ irrigation water}}$

US units

Flow rate of the largest irrigation shift GPM
 X
 Dosing ratio of a single fertilizer/acid US gal/1000 US gal
 X 0.06 =
 Result: a single fertilizer/acid flow rate GPH
 X 1.25 =
 Result: target Rotameter reading GPH

EXAMPLE

<input type="text" value="500"/>	GPM
X	
<input type="text" value="15"/>	US gal/1000 US gal
X 0.06 =	
<input type="text" value="45"/>	GPH
X 1.25 =	
<input type="text" value="56"/>	GPH

DEFINITION

Dosing ratio = $\frac{\text{The quantity of fertilizer/acid (US gal)}}{1 \text{ THG (1000 US gal) irrigation water}}$



NOTE

The Rotameter's scale is calibrated by the manufacturer for measurement of the flow rate of water (H₂O). Certain inaccuracies may be observed when measuring the flow rates of liquids with different densities, such as fertilizers and acids.

2. Simulation test with a 10-liter (2-US-gallon) bucket of water

Instruments needed

- Good-quality portable EC and pH sensors, finely calibrated
- Calibration solutions for EC and pH
- Bucket with a scale for up to 10 liters (2 US gallons)
- Measuring tube or syringe with a scale for up to 100 cc (1 oz)
- Clean (preferably distilled) water for cleaning sensors during calibration
- Blotting paper for cleaning and drying

The client prepares the fertilizer solutions and the acid solution (if required) in the stock tanks according to the recipe advised by the agronomist/consultant.



ATTENTION

Ensure that the fertilizers and acid solutions in the stock tanks have been thoroughly agitated before starting the simulation.

DOSING CALIBRATION

Note the required dosing ratio of each fertilizer solution and the dosing ratio of the acid solution (if used).

Fill a bucket with 10 liters (2 US gallons) of the client's supply water (without fertilizer or acid).

Measure the EC and the pH levels of the water in the bucket using calibrated portable sensors.

EXAMPLE

	EC	pH
Supply water (without fertilizer or acid)	0.3	7.8

Using a measuring tube or a syringe, take a dose from each fertilizer solution and from the acid solution (if used) according to the proportions determined by the dosing ratio (see example below) and **mix thoroughly** with the water in the bucket.

EXAMPLE

Metric units

For a fertilizer dosing ratio of 5 l/m³ each and an acid dosing ratio of 2 l/m³, the quantities for 10 liters of water in the bucket-simulation test will be 50 cc of each fertilizer solution and 20 cc of the acid solution

US units

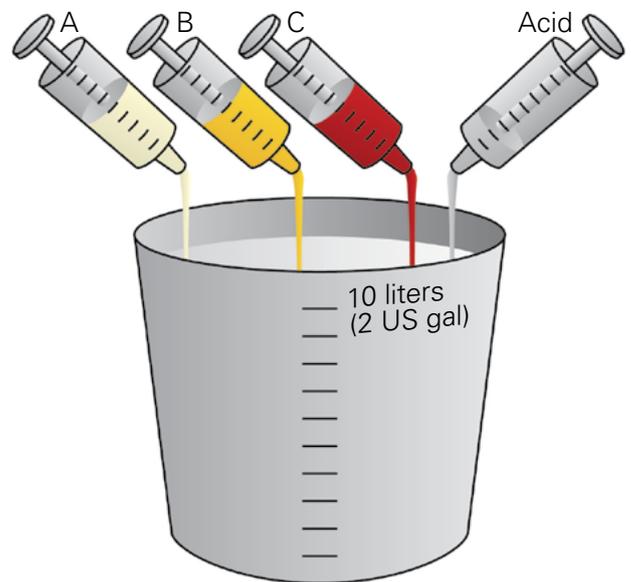
For a fertilizer dosing ratio of 1.5 US gal/THG each and an acid dosing ratio of 1.1 US gal/THG, the quantities for 2 US gallons of water in the bucket-simulation test will be 0.38 oz* of each fertilizer solution and 0.28 oz** of the acid solution

DEFINITIONS

1 US gal = 128 oz

$$* \frac{1.5 \times 2}{1000} = 0.003 \text{ US gal} = 0.384 \text{ oz}$$

$$** \frac{1.1 \times 2}{1000} = 0.0022 \text{ US gal} = 0.28 \text{ oz}$$



Measure the EC and the pH levels of the mixture in the bucket using calibrated portable sensors.

Compare the measured EC and pH values to the target values set by the agronomist/consultant.

EXAMPLE

	EC	pH
After adding the fertilizers and acid	1.6	5.5
Target values	1.8	5.8
Deviation from target value	11%	5%



DOSING CALIBRATION

With the controller set to operate according to EC/pH values - if the EC and pH values measured in the bucket are within a range of $\pm 30\%$ deviation from the target values, the system will be able to correct them automatically.

If the values are out of the $\pm 30\%$ range, check the data and consult the agronomist/consultant.

3. Calibration of the NetaJet™ 4G while irrigating



WARNING

Extreme EC or pH values may damage the crop.

Perform the following procedure only after completing stage 2 above ([Simulation test with a 10-liter or 2-US-gallon bucket of water](#) - page 35) with satisfactory results.



NOTE

The following steps explain the operations to be performed, regardless of the type of controller used. For the operation of your controller's interface, consult the enclosed Controller Manual.

However, since the NMC Pro controller is widely used - its interface screens for the execution of each step are noted.



NOTE

Before the calibration, confirm that the EC and the pH sensors of the NetaJet™ 4G have been calibrated according to the instructions in the enclosed EC/pH Installation Manual.

Define the dosing configuration, while the EC and pH controls are in the OFF position (**NMC Pro - screen 7.7**).

In the EC and pH alarm definitions, set the EC and pH alarm to the OFF position (deactivated) (**NMC Pro - screen 3.6**).

Enter the data for the irrigation valves, and the dosing ratio for each dosing channel (**NMC Pro - screens 1.1-1.2-1.3**).

Run the program (**NMC Pro - screen 2.2**).

Allow a few minutes for the pipes to fill up and the flow rate to stabilize.

Reduce the suction of the dosing channels by adjusting the manual needle valve of each dosing channel until the "target Rotameter reading" calculated in stage 1 (page 35) is attained.



NOTE

The Rotameter's scale is calibrated by the manufacturer for measurement of the flow rate of water (H₂O). Certain inaccuracies may be observed when measuring the flow rates of liquids with different densities, such as fertilizers and acids.

Check the appropriate controller screen for the measured EC and pH values (**NMC Pro - hot screen 4**).

If the desired values have been reached, check opening percentages of the dosing valves.

The EC and pH target values should be attained with the dosing valves opened to 50% - 80% of their capacity.

If the EC and pH target values are attained with the dosing valves opened less than 50%, reduce the dosing channel suction rate, until the EC and pH target values are reached.



NOTE

Every change in the flow rate of the needle valve must be updated afterwards in the controller (**NMC Pro - screen 7.6**).

DOSING CALIBRATION

If the EC and pH target values cannot be attained, and the dosing valves are opened more than 85%, measures should be taken to increase the dosing ratio - if feasible, slightly increase the concentration of the fertilizer solution and/or reduce the water flow rate to the field during irrigation.

If not - consult the agronomist/consultant.

In a field where the flow rate changes significantly from one irrigation shift to the next, try to be at a minimum of 50% opening of the dosing valve for the low-flow-rate shift, and a maximum of 80% for the high-flow-rate shift.

When the calibration process is completed, return to the EC and pH control screen in the controller, define the deviation in EC and pH values for the channels and switch the EC and pH control to ON

(NMC Pro - screen 7.7-7.6).

In the EC and pH alarm definitions, define the EC and pH deviation from the target values that, if attained, will trigger the alarm and set the EC and pH alarm to the ON position (activated) **(NMC Pro - screen 3.5-3.6).**



NOTE

EC and pH values must not exceed a $\pm 30\%$ deviation from the target values.



ATTENTION

Once a month, read the measured flow rates of the dosing channels and compare them with the flow rates defined in the controller, in order to check whether changes have occurred

(NMC Pro - screen 7.6).

After completing the calibration process, fill in the NetaJet™ 4G Hydraulic Conditions Checklist (User Manual, page 45) in three copies. Make sure to fill in all the boxes in the reference row.

The NetaJet™ 4G User Manual is provided with the NetaJet™ 4G and downloadable at <https://www.netajet.com/en/digital-farming/netbeat/Fertigation/netajet/>

SYSTEM CALIBRATION

Each NetaJet™ 4G is supplied fully calibrated according to the main irrigation line flow rate and pressure reported by the client, and does not require any additional calibration during installation.

The proper pressure regime of the NetaJet™ 4G

Mode	Required pressure - bar (PSI)			
	A Inlet PRV	B Lower manifold	C Outlet PSV	D Main line
BP PL, IL PL, High-flow, Octa	3.5-4.0 (50.7-58.0)	0+0.5 (0-7.2)	4.0 (58.0)	Standard: 2.5-5.8 (36.5-84.0) High pressure: 5.8-7.5 (84.0-108.5)
BP ST, IL ST	3.5-4.0 (50.7-58.0)	0+0.5 (0-7.2)		0+0.5 (0-7.2)

In the rare event that the main line pressure **D** is out of the NetaJet™ 4G working range (higher or lower):

- 1) Restore the main line pressure to the original value according to the reference data in the NetaJet™ 4G Hydraulic Conditions Checklist (User Manual, page 45).
- 2) If it is impossible to restore the main line pressure according to the reference data - alter the system calibration according to the actual main line pressure.

The calibration process involves checking the pressure at several points on the NetaJet™ 4G and readjusting the system pressure regime.

Contact your local Netafim™ representative for guidance.

Each mode has between 2 to 3 points to attend to. At each point there is a pressure gauge and a valve (PSV or PRV) to adjust.

A Inlet PRV, **C** Outlet PSV

1. Release the pilot lock-nut.
2. Gently rotate the pilot calibration bolt with a spanner.
3. After completing recalibration of the system, tighten the pilot lock-nut.



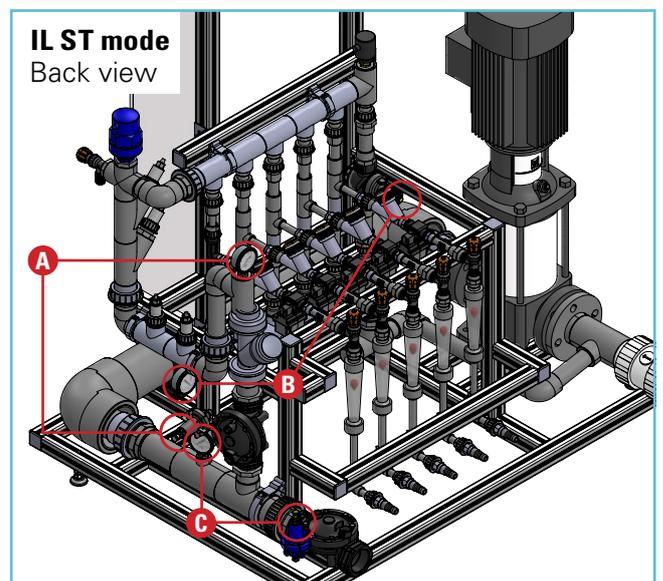
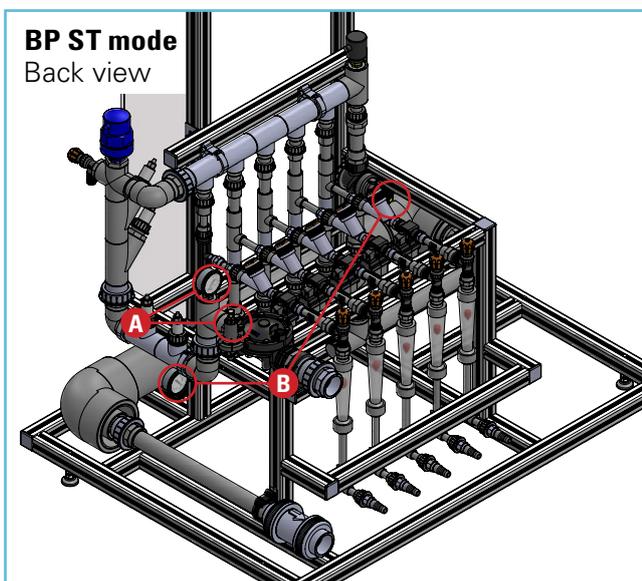
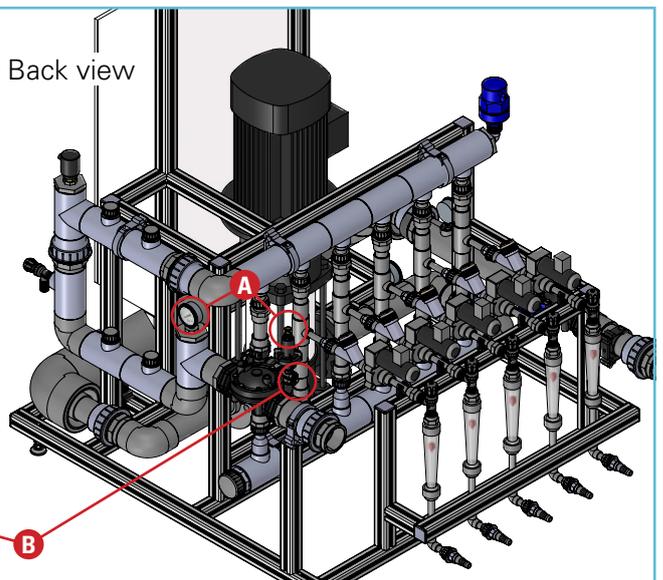
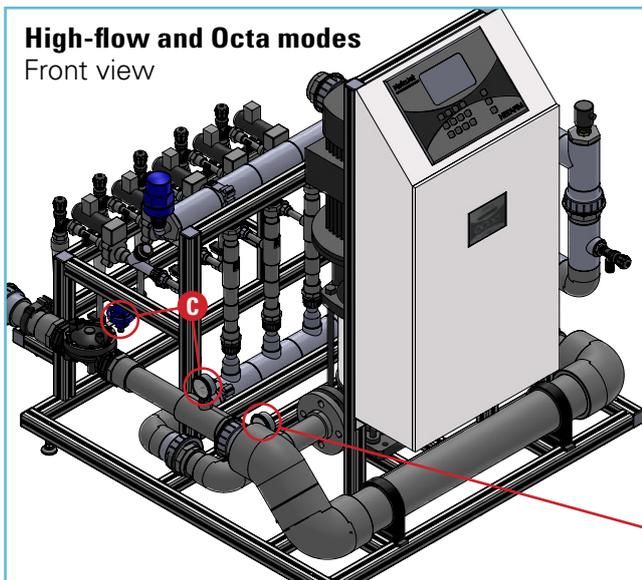
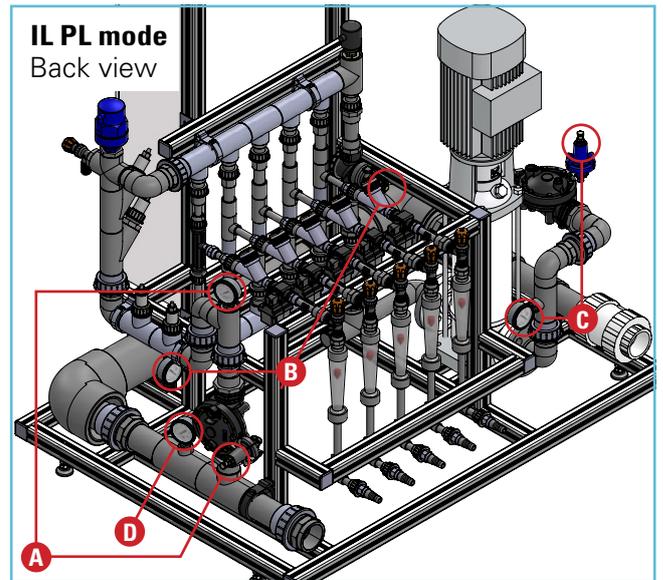
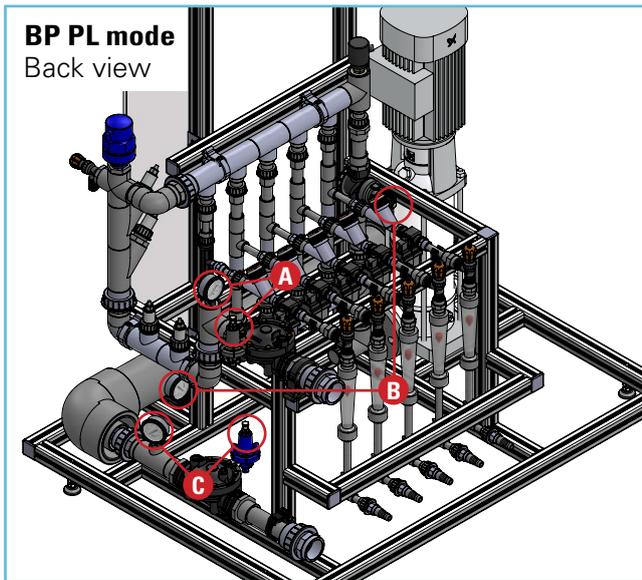
B Lower manifold (compensation channel PRV)

1. Remove the yellow/white cap.
2. Gently rotate the pilot calibration screw with a screwdriver.
3. After completing recalibration of the system, replace the yellow/white cap.



The illustrations on the next page will assist you in locating each calibration-point pressure gauge and valve for each NetaJet™ 4G mode.

SYSTEM CALIBRATION



COMMISSIONING

After completing the calibration process, the NetaJet™ 4G is ready for commissioning.

Familiarize the client with the NetaJet™ 4G, the user manual (provided with the NetaJet™ 4G and downloadable at <https://www.netafim.com/en/digital-farming/netbeat/Fertigation/netajet/>) and the accompanying documents and emphasize the following points:

- The importance of following all the safety instructions.
- The warranty and its restrictions.
- Dosing calibration - review this chapter with the client and emphasize the importance of thorough knowledge of the processes it describes for the current operation of the NetaJet™ 4G.
- Proper dissolving of fertilizers for optimal utilization of the dosing channel's capacity.
- The importance of regular maintenance and its impact on the warranty.
- Troubleshooting - review this chapter with the client.
- The importance of periodic comparison of the hydraulic data with the references in the NetaJet™ 4G Hydraulic Conditions Checklist (User Manual, page 45).
- Make sure the NetaJet™ 4G Hydraulic Conditions Checklist has been properly filled.
- Fill out the NetaJet™ 4G Commissioning Report.
- Keep one copy of both documents, give a copy to the client as reference for calibration of the NetaJet™ 4G in the future and send a copy to cmt.support@netafim.com

WARRANTY

Netafim™ warrants all the components of the NetaJet™ 4G to be free of defects in material and workmanship for 1 (one) year from the date of installation, provided the installation has been reported to Netafim™ within 30 days of installation.

If the installation was not reported or was reported later than 30 days from the date of installation, Netafim™ will warrant the NetaJet™ 4G for a period of 18 months from the date of production, according to its serial number.

If a defect is discovered during the applicable warranty period, Netafim™ will repair or replace, at its discretion, the product or the defective part.

The above does not apply to EC and pH sensors, since they are wearable. Netafim™ will warrant these items to be free of defects in material and workmanship for 3 months from the date of installation, provided the installation has been reported to Netafim™ within 30 days, or 6 months from date of production if installation was not reported or was reported later than 30 days from the date of installation.



CAUTION

When not installed, the pH sensor must be immersed in KCL solution (supplied with the sensor) or in calibration buffer 4 at a temperature of 18-25°C (64-77°F), protected from freezing and not be exposed to pressure greater than 6 bars (87 PSI).

Damage due to these causes is not covered by the warranty.

This warranty does not extend to repairs, adjustments or replacements of a NetaJet™ 4G or part that results from misuse, negligence, alteration, force majeure, lightning, power surge, improper installation or improper maintenance.

If a defect arises in your Netafim™ product during the warranty period, contact your Netafim™ supplier.

Limited warranty

This warranty is subject to the conditions in Netafim's official warranty statement. (For the full text of Netafim's official warranty statement, please contact Netafim™).

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