

INSTALLATION & OPERATION GUIDE

Please the installation guide before use

1. Before Installation

- Examine the mainline and sub-main for leaks or damage.
- Install a suitable filtration system.
- Flush the mainline and sub-main to remove dirt and installation debris.
- Ensure operating pressure is maintained within 1–2 kg/sq cm.
- Protect the drip pipe from sharp objects during installation

2. Connecting the Drip Pipe

- Measure and mark the required lateral locations.
- Cut the drip pipe cleanly using a suitable cutter or sharp cutting tool.
- Connect the 16 mm drip pipe to the appropriate take-off or connector.
- Ensure the connection is properly seated and free from leakage.
- Lay the drip pipe along the crop row with the integrated emitters positioned appropriately for the plants.

3. Initial Flushing

Note : Do not skip the first flushing operation.

- Leave the downstream end of each lateral open. Start the system gradually and allow water to flow through the lateral until it runs clear. Stop the system and close the lateral end using a suitable end closure.

4. Starting the Irrigation System

- Open the system gradually. Verify all take-off and lateral connections. Inspect the laterals for leakage or abnormal discharge. Confirm operation within 1–2 kg/sq cm and check that water reaches the crop rows as intended.

5. Filtration

- Proper filtration is essential for reliable drip irrigation. Use filtration appropriate to the irrigation-water quality and the overall system design. Maintain and clean the filter regularly according to water quality and system requirements.

6. Routine Maintenance

- Periodically check for blocked or partially blocked emitters, leakage at connectors, damaged or punctured pipes, sediment accumulation, pressure variations, and filter condition.
- Flush the irrigation system whenever required based on water quality and field conditions.

7. Fertilizer / Fertigation Operation

- If fertilizers are injected through the irrigation system, ensure filtration is functioning properly, operate at the recommended pressure, follow fertigation-equipment instructions, and continue irrigation with clean water after fertilizer application as required to clear the lines.

8. End-of-Season Handling

- Where the pipe is intended for removal and reuse: Flush the pipe before removal, disconnect the fittings carefully, avoid pulling the pipe across sharp surfaces, drain any remaining water, coil and store the pipe properly, and protect it from unnecessary direct sunlight, heat, and sharp objects.

9. Important Do's & Don'ts

- **DO:** Use suitable filtration; flush before initial operation; maintain recommended pressure; inspect connections; handle carefully; and flush as required.
- **DON'T:** Drag over sharp surfaces; puncture or damage the pipe; operate outside the recommended pressure range; ignore filter maintenance; or leave installation debris inside the irrigation system.

Technical Note

- Installation requirements vary depending on field layout, water quality, filtration, pressure regulation, crop type and irrigation system design. Use this guide together with the overall irrigation system design and the instructions for the relevant component.

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