

NAANDANJAIN SEMI-AUTOMATIC FILTER



NDJ Semi-Automatic suction scanning plastic filters offer a smart, efficient and cost-effective solution for cleaning manual irrigation filters.

These lightweight screen filters are quickly and easily cleaned with only the turn of a handle.

MAIN FEATURES

- Allows filter cleaning without shutting off water supply to the field
- Eliminates the need for dismantling and rinsing the filtration element
- Eliminates the need for installing a rinsing valve and hose next to the filter
- Pop-up clogging indicator shows when the filter is clogged
- Saves time with a quick turn-of-a-handle cleaning procedure

PRINCIPLE OF OPERATION:

The NDJ Semi-Automatic filter is a screen filter containing a suction scanning assembly.

The suction scanning assembly is a hollow pipe with a few suction nozzles facing the internal part of the screen. The bottom side of the hollow pipe is connected to the flushing valve. A turn of the handle rotates the scanning nozzles in a spiral movement, up and down the inner surface of the screen.

As the pressure differential across the screen exceeds 0.5 bars, a red button pops up from the clogging indicator, showing that the filter needs to be cleaned.

Opening the flushing valve creates low pressure conditions in the scanning nozzles, sucking the accumulated dirt particles from the screen, through the flushing valve, and out of the filter.

A turn of the handle rotates the scanning nozzles across the screen surface, ensuring complete cleaning of the screen in a few seconds.

TECHNICAL DATA

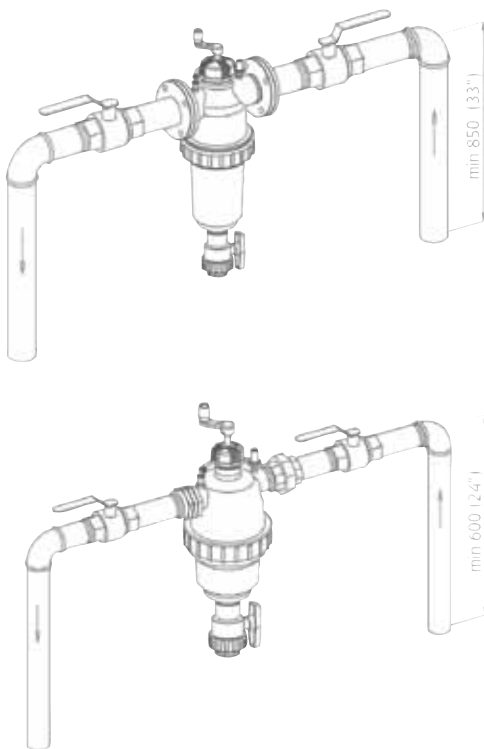
| Model | 2" | 2" Super | 3" |
|------------------------|--|-----------------------------------|-----------------------------------|
| Design specifications | | | |
| Maximal flow rate | 25 m ³ /h / 110 gpm | 25 m ³ /h / 110 gpm | 50 m ³ /h / 220 gpm |
| Head loss | At 15 m ³ /h = 0.1 bar | At 15 m ³ /h = 0.1 bar | At 40 m ³ /h = 0.1 bar |
| Maximal pressure | 10 bar / 145 psi | | |
| Minimal pressure | 2 bar / 30 psi | | |
| Filtration area | 680 cm ² | 1050 cm ² | 1050 cm ² |
| Filtration degree | 80, 100, 130, 200, 300 micron | Standard-130 micron | |
| End connections | Male threaded | Male threaded | Male threaded / Flanged |
| Max. working temp. | 60°C | | |
| Construction materials | | | |
| Filter body | Polyamide + Glass fibers | | |
| Screen | Construction- Polypropylene + Glass fibers, Mesh-St. St. | | |

APPLICATIONS

A quick-cleaning filter for protection of drip or sprinkler irrigation systems in open fields, orchards, greenhouses and landscaping.

Recommended in cases where:

- The main filtration head is far from the plot.
- Water quality is bad, requiring frequent filter cleaning.
- Flow to the plot should not be interrupted for filter cleaning.

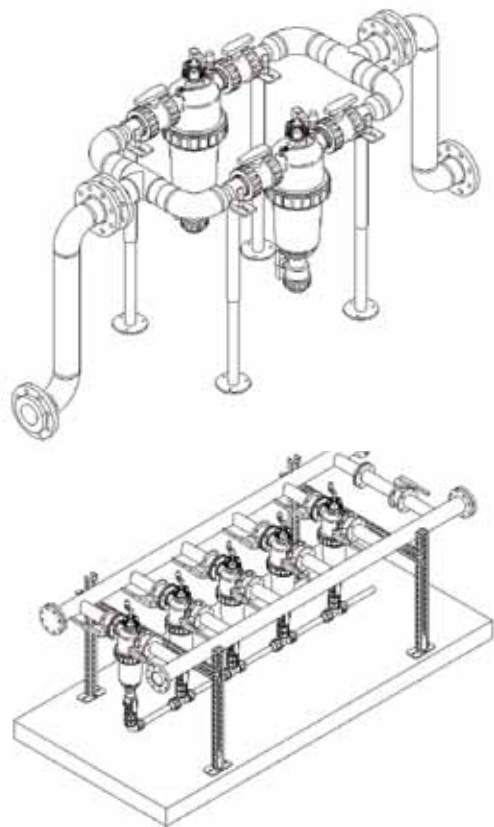


A main filtration head for relatively small plots of drip or sprinkler irrigation systems in open fields, orchards, and greenhouses.

The filtration head consists of several NDJ Semi-Automatic filters in a parallel array.

Recommended in cases where:

- A cost-effective main filtration solution is required.
- Automation is not viable.
- Flow rates are moderate or low.
- The system allows maintenance or replacement of one unit without stopping water supply to the plot.



HOW TO ORDER

| Size Connection | 2" | 2" Super | 3" |
|-------------------|------------|------------|------------|
| Male threaded BSP | 6210087016 | 6210087004 | 6210087028 |
| Male threaded NPT | 6210087017 | 6210087003 | 6210087023 |
| Flanged ISO-PN16 | | | 6210087027 |
| Flanged ASA150 | | | 6210087026 |
| Flanged BSTD | | | 6210087024 |

*All codes are for filters with 130 micron screens