

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

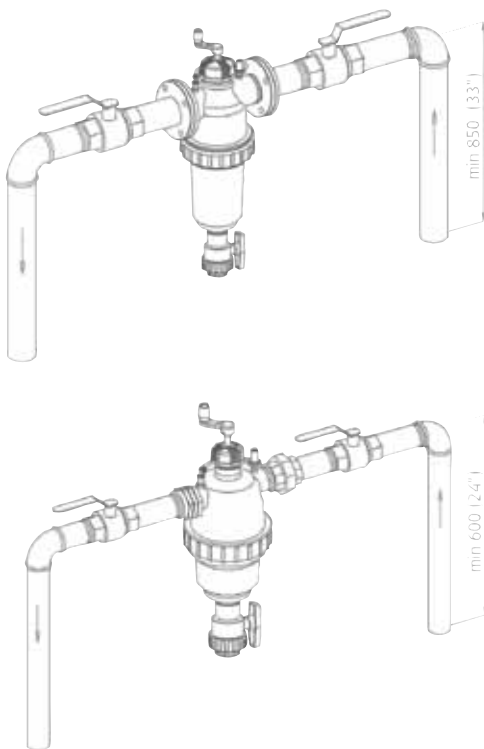
Model	2"	2" Super	3"
Design specifications			
Maximal flow rate	25 m ³ /h / 110 gpm	25 m ³ /h / 110 gpm	50 m ³ /h / 220 gpm
Head loss	At 15 m ³ /h = 0.1 bar	At 15 m ³ /h = 0.1 bar	At 40 m ³ /h = 0.1 bar
Maximal pressure	10 bar / 145 psi		
Minimal pressure	2 bar / 30 psi		
Filtration area	680 cm ²	1050 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.

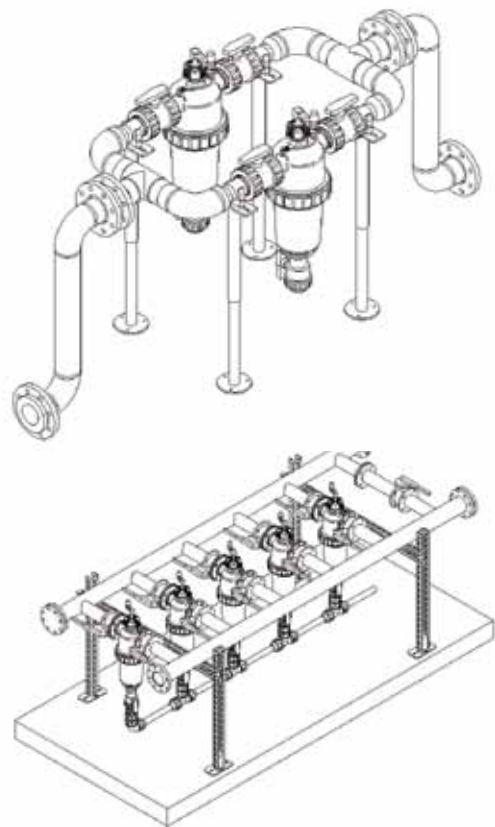


A main filtration head for relatively small plots of drip or sprinkler irrigation systems in open fields, orchards, and greenhouses.

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