

# SUPRA-TDS™

## Semi-automatic Disc Filter



## SUPRA-TDS™ Series. Innovative. Patented. Hassle-Free.

The SUPRA-TDS™ Series is a cutting-edge, semi-automatic disc filter that combines the reliability of disc element filtration with a user-friendly flushing mechanism. Designed to efficiently remove solids, debris, and other contaminants, it simplifies maintenance without the need to open the filter or invest in complex, fully automated systems.

### Applications

- Ideal for agriculture, landscape irrigation, aquaculture, and industrial use
- Protects drip emitters, micro sprinklers, and sensitive systems
- Serves as secondary filtration for gravel filters and sand separators

### Key Features

- **Quick & Simple Cleaning** – Flush valve and a quarter-turn handle make maintenance fast and easy
- **High Efficiency** – Filters smaller particles than standard screen filters
- **Compact Design** – Fits into tight spaces across various installations
- **Durable Build** – UV-protected, chemical-resistant polymeric materials
- **Optional Clogging Indicator** – For easy monitoring of head loss

### Performance

- Available in 2" and 3" models
- Flow rates up to 220 GPM (40 m³/h) per unit
- Scalable with 2–6 unit battery setups
- Large filtration area reduces flushing frequency



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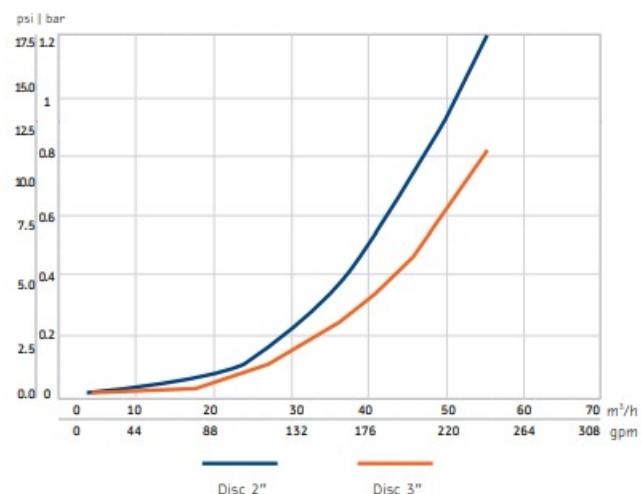
# SUPRA-TDS™

## Semi-automatic Disc Filter

### Technical Specifications

- Maximum working pressure: up to 145 PSI (10 bar)
- Maximum recommended flow rate:
  - 2" filter: 110 GPM (25 m<sup>3</sup>/h)
  - 3" filter: 220 GPM (40 m<sup>3</sup>/h)
- Available discs: 40 mesh (blue), 80 mesh (yellow), 120 mesh (red) & 150 mesh (black)
- Filtration area: 158 square inches (1025 cm<sup>2</sup>)
- Filtration volume: 81 cubic inches (1330 cm<sup>3</sup>)
- Available sizes in 2" & 3" NPT Inlet and outlet:
  - Flush valve: 2"
  - Secondary service port: 1/2"
- Maximum operating temperature: 60°C (140°F)
- Semi-automatic flushing data requirements:
  - Overhead handle flushing time: 15-30 seconds
  - Secondary port flushing time: 10 seconds
  - Minimum flushing pressure: 29 PSI (2 bar)
  - Flushing flow rate at 30 PSI (2 bar): 40 GPM (9 m<sup>3</sup> /h)
  - Flushing flow rate at 43 PSI (3 bar): 52 GPM (12 m<sup>3</sup>/h)
- Construction materials
  - Filter body & cover: RPA (reinforced polyamide), PP
  - Seals: EPDM
  - Filter elements: (spine) RPP (reinforced Polypropylene)
  - Discs: PP

### Head Loss Chart



### How to specify

Model	Description
PN2SAD-040	2" MNPT semi-automatic disc filter with 40 mesh
PN2SAD-080	2" MNPT semi-automatic disc filter with 80 mesh
PN2SAD-120	2" MNPT semi-automatic disc filter with 120 mesh
PN2SAD-155	2" MNPT semi-automatic disc filter with 155 mesh
PN3SAD-040	3" MNPT semi-automatic disc filter with 40 mesh
PN3SAD-080	3" MNPT semi-automatic disc filter with 80 mesh
PN3SAD-120	3" MNPT semi-automatic disc filter with 120 mesh
PN3SAD-155	3" MNPT semi-automatic disc filter with 155 mesh