

SUPRA-TDS™

Semi-Automatic Disc Filter

Assembly, Installation,
and Maintenance Instructions
For 2" and 3" Filters



ASSEMBLY INSTRUCTIONS

1. Connect the 1" flush valve to the bottom of the filter cup.
Note: Teflon tape is not required; the valve is self-sealing.

INSTALLATION GUIDELINES

1. Install the filter either vertically or at a 90° angle to the pipe. Ensure the flush valve is oriented downward or to the side.
2. Verify the flow direction according to the markings on the filter body.
3. Ensure both flush valves are fully closed.
4. It is recommended to install a shut-off valve upstream of the filter to allow for easy maintenance.
5. The filter is now ready for initial operation.

INITIAL OPERATION

1. Gradually open the water source and check all connections for leaks.
2. Perform 2–3 flushing cycles following the instructions in the next section.
3. The filter is now operational.

AUTOMATIC FLUSHING PROCEDURE

Flush the filter when the head loss reaches 0.5–0.7 bar (7–10 PSI).

Pressure Monitoring

1. Pressure can be measured manually by inserting a gauge into the pressure ports on the filter body.
2. For easier monitoring, a **pressure indicator** is recommended:
 - The indicator features a red button that pops up when pressure loss exceeds 0.5 bar, signaling the need for flushing.
 - After flushing, the red button retracts, indicating normal operation.
 - The indicator is connected directly to the built-in pressure testing ports.
 - When installed, the pressure indicator eliminates the need for manual pressure checks.

FLUSHING STEPS

1. Open the flush valve slowly.
2. Turn the scanning handle counterclockwise until it stops (the handle will rise upward).
3. Close the flush valve slowly and check the pressure:
– If a pressure indicator is installed, verify that the red pin has retracted.
4. If pressure remains high or the red pin stays raised, repeat the flushing cycle.
5. If the filter is still not clean after repeated flushing, proceed with the manual cleaning procedure.

Note: Water flow to the irrigation system remains uninterrupted during automatic flushing.

MANUAL CLEANING PROCEDURE

1. Close the inlet valve to the filter.
2. Open the flush valve gradually to drain water from the filter.
3. Loosen the locking nut and remove the filter cup.
4. Remove the pin that connects the handle and detach the handle.
5. Unscrew and remove the scanner bar.
6. Carefully remove the screen and rinse it thoroughly with clean water. – Do not use a wire brush.
7. Reassemble the filter:
 - a. Reinsert all components in reverse order.
 - b. Gradually open the inlet valve.
 - c. The filter is ready for use.

⚠ Warning

Do not open the filter cup while the system is under pressure.

SPECIFICATIONS

- **Pressure:** Max 145 PSI (10 bar)
- **Flow Rate:** 2" – 110 GPM | 3" – 220 GPM
- **Discs:** 40 / 80 / 120 / 150 mesh
- **Area:** 158 in² | **Volume:** 81 in³
- **Sizes:** 2" & 3" NPT
- **Temp:** Max 140°F (60°C)
- **Flush Time:** 15–30s (handle), 10s (port)
- **Flush Pressure:** Min 29 PSI
- **Flush Flow:** 2 bar – 40 GPM | 3 bar – 52 GPM
- **Materials:** RPA, PP, RPP, EPDM

