



ADIR Semi – Automatic Screen filters 2"-3" TS

Installation and maintenance instructions

Assembly

- Connect the 1" flush valve to the bottom of the filter cup, (no need to use Teflon, valve is self-seal).

Installation

- Filter can be installed in vertical position or at 90° to the pipe, (Flush valve pointing down or to the side).
- Ensure proper flow direction as clearly marked on the filter.
- Make sure both flush valves are closed.
- It is recommended to install a shut off valve before the filter for maintenance.
- Filter is ready for first operation.



First Operation

- Open the water source gradually and check for leaks.
- Perform 2-3 flushing cycles as outlined below.
- Filter is ready for use.

Flushing the filter

- Filter must be flushed when the head loss across the filter reaches 0.5 - 0.7 Bar.
 - Pressure is measured by inserting a pressure gauge with needle into the pressure ports.
 - It is recommended to install a pressure indicator on the filter. The indicator enables quick and easy way to show the user that the filter is clogged and needs flushing.
 - When pressure loss across the filter element reaches the preset value, usually 0.5 bar (7 psi), the red button pops up and the user can see from a distance that the filter needs flushing.

After flushing the button descends into the indicator body.
 - The indicator is connected directly to the pressure testing ports located on the filter body.
 - When a pressure indicator is installed there is no need to perform manual pressure tests.
- Open the flush valve gradually.
- Turn the scanning handle counterclockwise – it will move upwards, until it stops.
- Turn the handle clockwise – it will move downwards, until it stops.
- Close the flush valve gradually and check pressure.
 - In case a pressure indicator is installed the red pin should descend.
- In case the filter is still dirty (head loss is still high or the indicator pin did not descend, perform another flushing cycle.
- If the filter is still dirty perform a manual flushing:



Water flow to the field is uninterrupted during flushing.



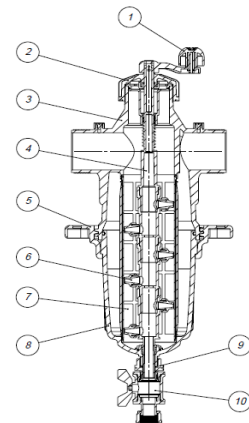
Flushing the filter

- Close the inlet valve to the filter.
- Open flush valve gradually and drain filter.
- Open the filter locking nut and remove the cup.
- Remove the pin connecting the handle and remove handle
- Screw the scanner bar out of the filter.
- Remove the screen out of the filter and flush thoroughly (do not use a wire brush).
- After cleaning the screen assemble the filter.
 - Open the inlet valve gradually.
 - Filter is ready.

Warning

Never open the filter cup under pressure.

1	Handle
2	Cover
3	Filter body
4	Flush Pipe
5	Locking Ring
6	Nozzle
7	Filter Screen
8	Cup
9	Bushing 1" F X1" M
10	1" Flush Valve



Technical specifications:

Available sizes: 2"; 3".

Filtration area: 950 cm²

Max working pressure: 10 Bar.

Max. flow rate:

2" 25 m³/h

3" 50 m³/h

Available in 40 – 140 mesh.

Min. flushing pressure: 2 Bar.

Flushing flow rate:

5.4 m³/h at 2 Bar.

6.8 m³/h at 3 Bar

Construction materials: Nylon, Polypropylene.

	2"	3"
A	280	280
B	490	508
C	720	750

