

Arkal Screen Line

3"- 4"- 6" Semi-Automatic Screen Filters

PSA-SERIES



- Unique economical design
- Corrosion resistant
- Large screen area
- Most suitable for waste water applications
- No need for manual disassembly and cleaning

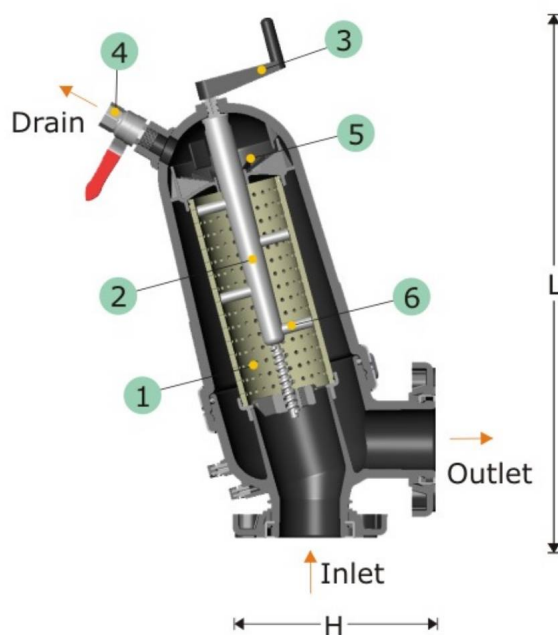


Semi Automatic Screen Filters, Scanaway Suction.
Orders and more information

ARKAL
FILTRATION SYSTEMS

■ Operation Description - Filtration Mode

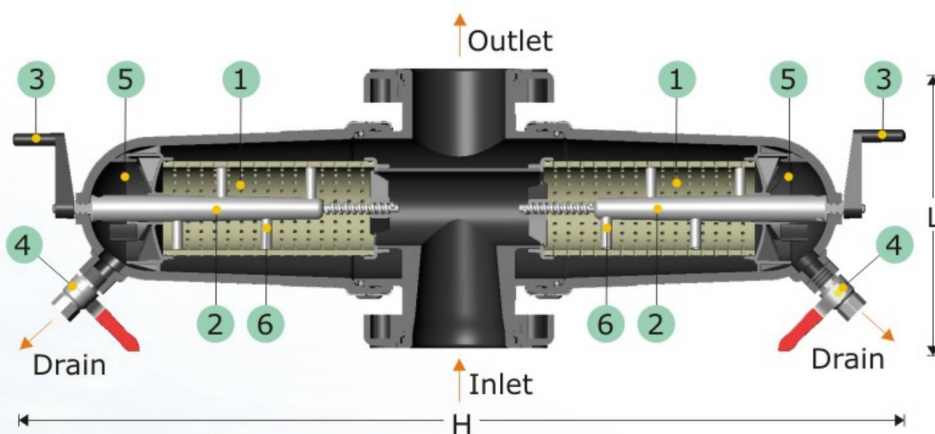
Water enters the filter through the "Inlet", reaching the screen **1**, which purifies the water by taking out smaller particles. As more water flows through impurities build up on the screen creating differential pressure between the internal section of the screen **1** and the external section of the screen.



■ Description

Arkal's 3", 4" and 6" Semi-Automatic filters consist of the following major parts:

- 1** Screen
- 2** Dirt Collector
- 3** Handle
- 4** Flush Valve
- 5** Flush Chamber
- 6** Nozzles



■ Cleaning Process in Suction Type Filter

When the differential pressure (ΔP) reaches the determined value (no more than 0.8 bar), or according to the timetable specified by the operator, a series of events occurs as the water continues to flow into the system's units.

Before opening the flush valve **4** the operator should check that the dirt collector **2** is fully withdrawn by turning the handle **3** clockwise until it stops. When the flush valve **4** opens, water flows out.

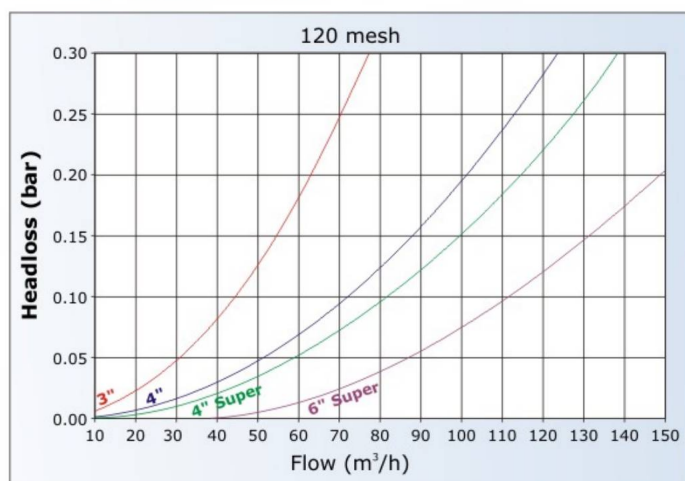
The operator should also check that the pressure in the flush chamber **5** and the dirt collector **2** is significantly reduced, which will create suction through the collector's nozzles **6**. Rotating the dirt collector **2** by the handle will cause full scanning of the screen **1** by the nozzles **6**. The combination of linear movement and rotation cleans the whole internal screen **1** surface. The flushing cycle will take only a few seconds.

General Technical Data

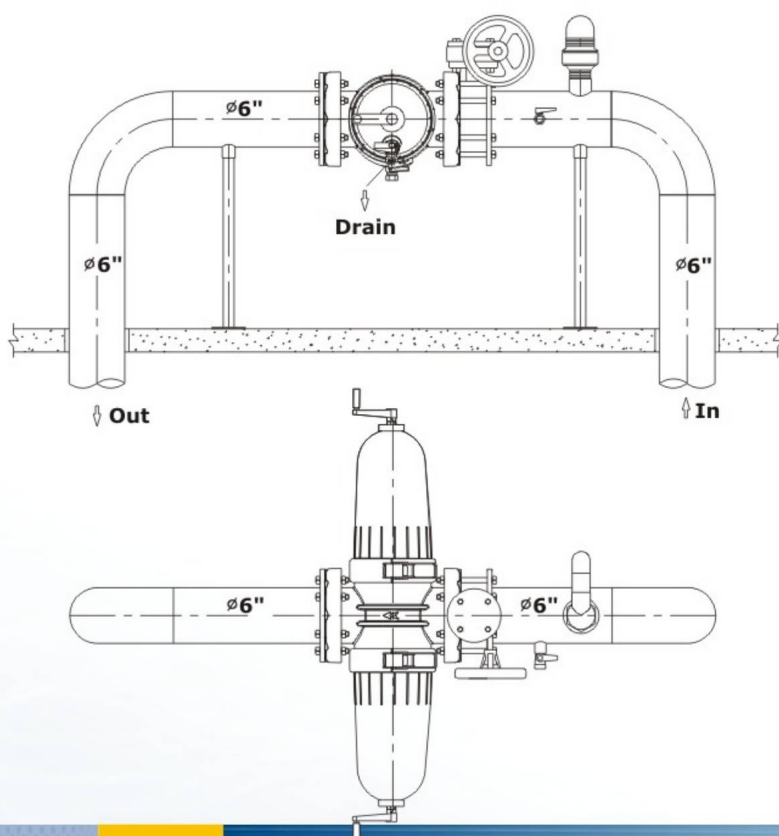
- Max. Pressure: 10 bar / 145 psi
- Max. Temperature: 60°C / 140°F
- Filtration Grades (currently): 400 μ , 200 μ , 120 μ

Model Number	Connection Size (inch)	Screen Area (cm ²)	Max. Flow Rate (M ³ /h)	L (mm)	H (mm)	Weight (kg)
AKSP3LT	3	1250	60	825	509	12
AKSP3LV	3	1250	60	789	509	12
AKSP3LF	3	1250	60	789	509	13
AKSP4LV	4	1250	90	789	509	13
AKSP4LF	4	1250	90	789	509	14
AKSP4S	4	2500	110	445	1368	26
AKSP6S	6	2500	140	415	1368	28

Headloss Chart



AKSP = Arkal Semi Automatic Polypropylene
L = Angel filter connection
T = Threaded filter connection
V = Victaulic filter connection
F = Flanged filter connection
S = Super leader filter (inline filter connection)



Applications

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Ordering Amiad Arkal Semi Automatic Filters from
www.irrigationglobal.com

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Email: service@irrigationglobl.com