



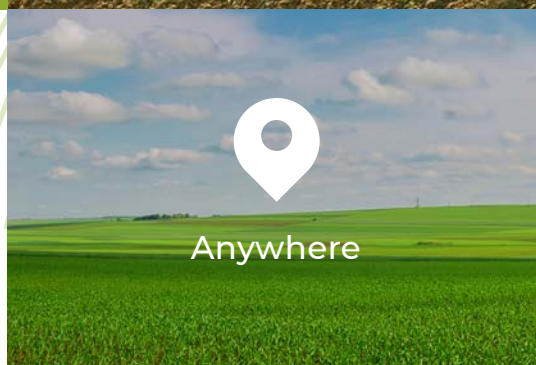
SIGMAPRO

Multi-screen polymeric
self-cleaning filter

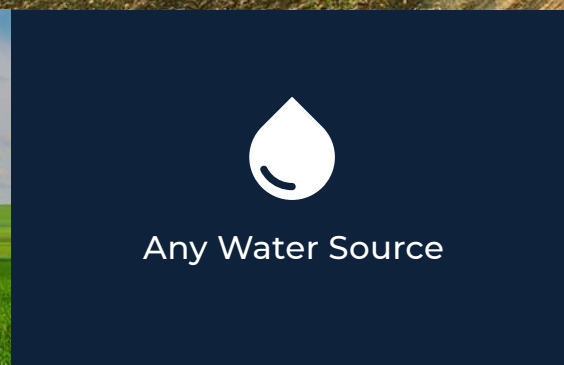
MASTERS ^{OF} FILTRATION



Anywhere



Any Water Source



Any Technology



**Farming is
our heritage.**
**Filtration is our
legacy.**

At Amiad, our roots are in the land. As farmers, we learned at firsthand what our crops need to thrive. We understand that every water source is different, and how water quality can greatly affect crop yield.

The filter is the first vital link in the irrigation chain. It's there to protect irrigation systems from damage, while delivering the best quality water.

We develop filters that are able to cope with any water quality, in any geographical location.

We've spent years mastering filtration technology so we can offer a wide range of filters for every farmer's needs including screen, disc or media technology. Our fully automated filtration systems save time, manpower and costs.



Disc
Technology



Screen
Technology



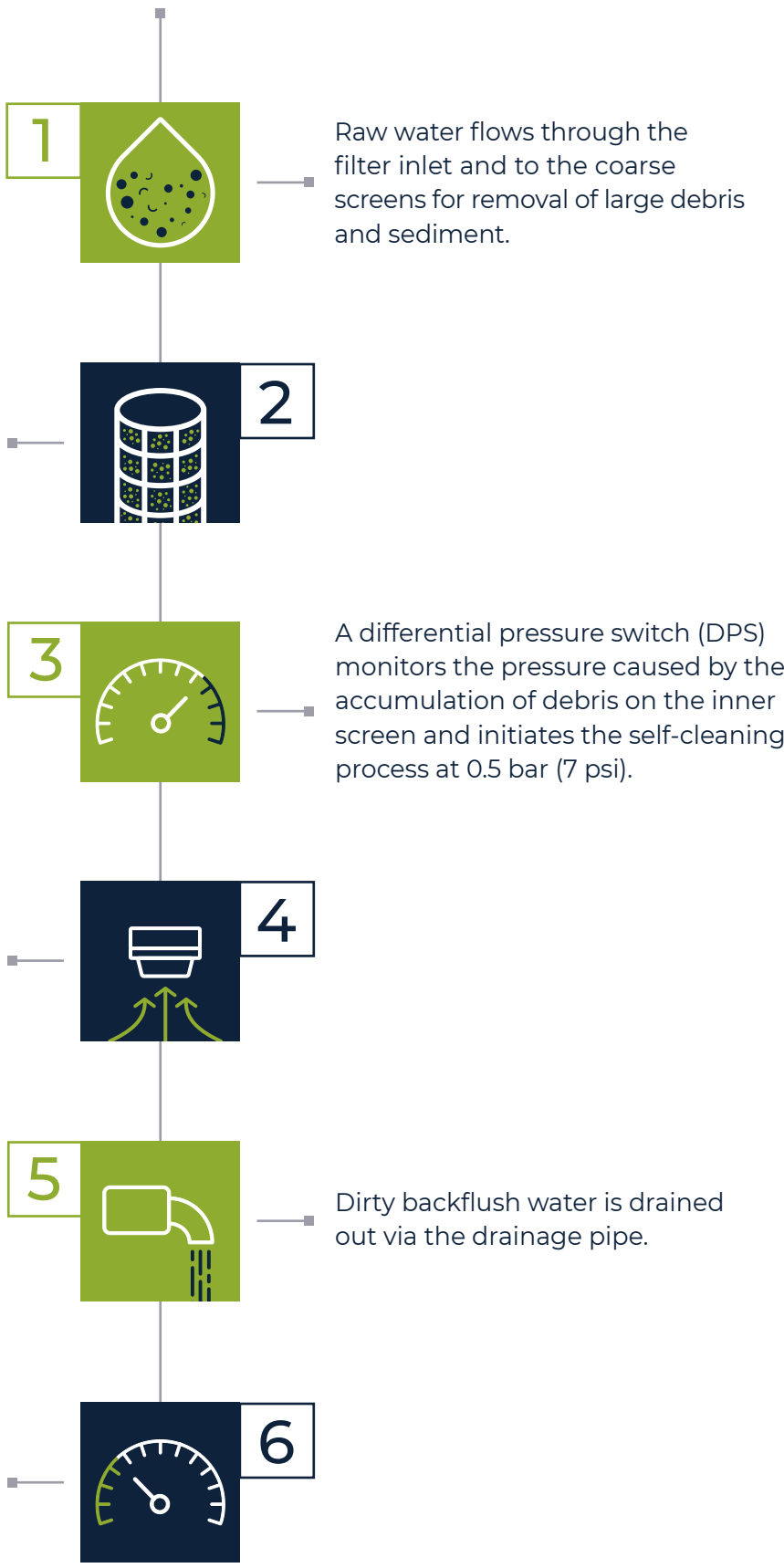
Media
Technology

We consider every challenge as an opportunity to work side by side with our customers to solve their problems. We'll go anywhere to ensure our filters perform as expected, 24/7, every day of the year.

When you want a high performance filter for your irrigation system, consult with Amiad. We focus on doing what we do best.

Amiad. Masters of Filtration.

The Filtration Process



Water then passes through the fine screens for removal of the remaining small particles.

The flush valve opens to the atmosphere to create a strong suction force at the scanner nozzles, effectively removing dirt particles from the screens.

After efficient cleaning, the DP returns to its original value, enabling the filter to operate continuously without downtime.

SIGMAPRO
FEATURES



Easy installation and low maintenance



Reliable and durable



Polymeric housing - corrosion free



Proprietary suction-scanning cleaning technology



Registered Patent



Large filtration area



Low water and energy consumption

ADI-P: the control is in your hands

The ADI-P Controller

The ADI-P Controller operates the automated processes that flush your Sigma Pro filters, allowing you to control and monitor them easily and conveniently.



Suitable for low pressure (1.5-10 bar)



Single or dual solenoid configuration



Provides detailed filtration performance data



Communication within **Bluetooth®** technology range

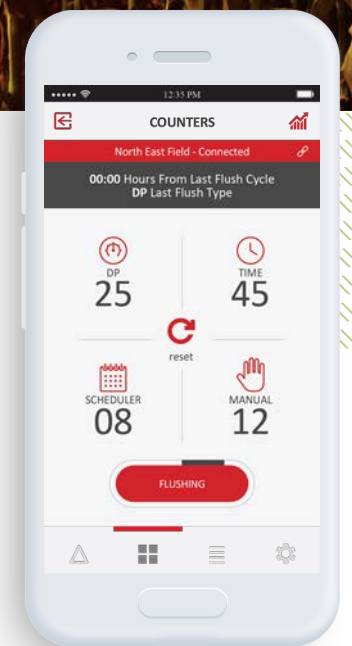


Offline information storage available

The ADI-P App

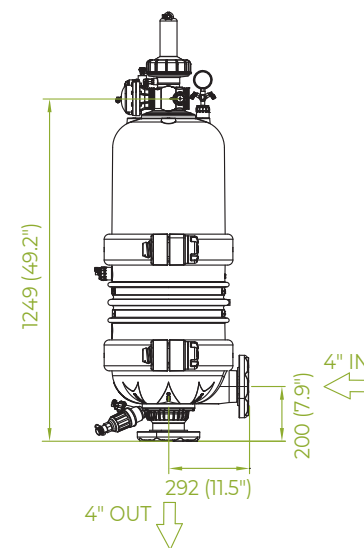
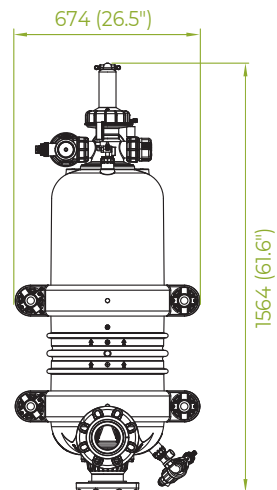
Access your site's filtration performance data directly from the ADI-P app. Here are some of the data that you can access via the ADI-P app:

- Flush logs
- Flush frequency
- Current DP
- Current outlet and inlet pressure
- Flush quality - measuring DP on the filter before and after flush cycle
- Malfunctions with descriptions of each event
- Battery status and low battery alerts

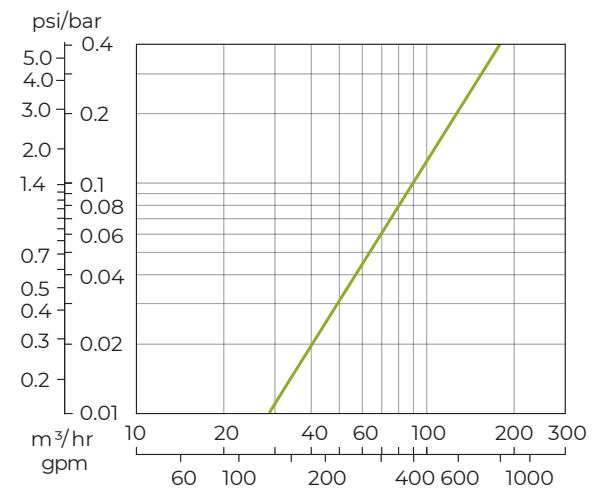


SIGMAPRO Models

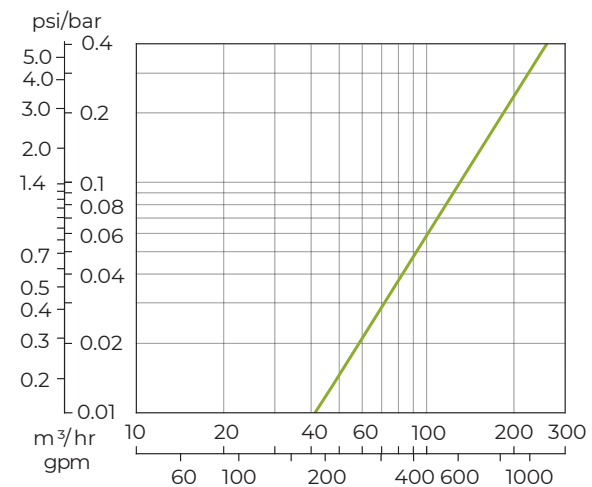
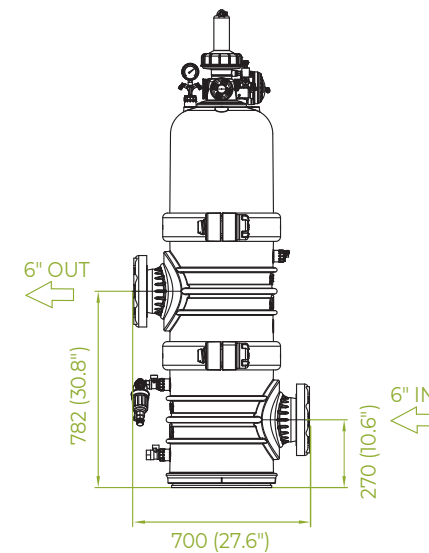
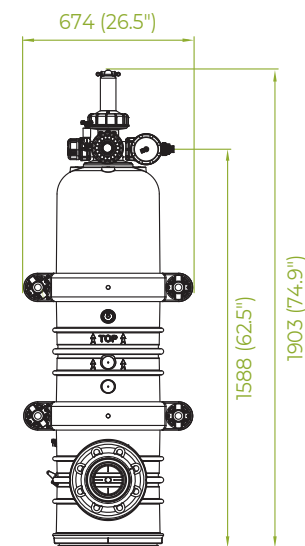
4" SIGMAPRO



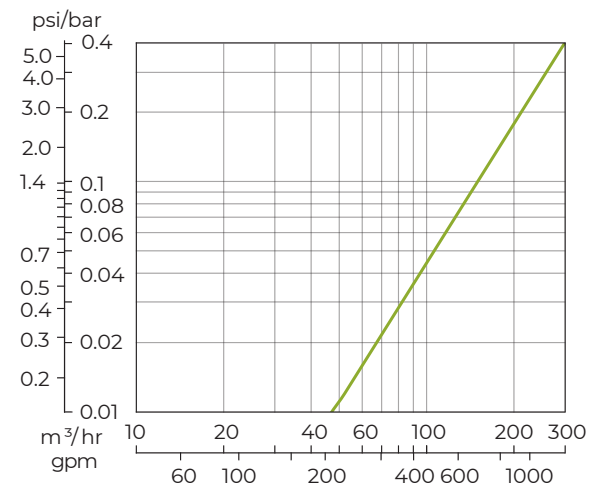
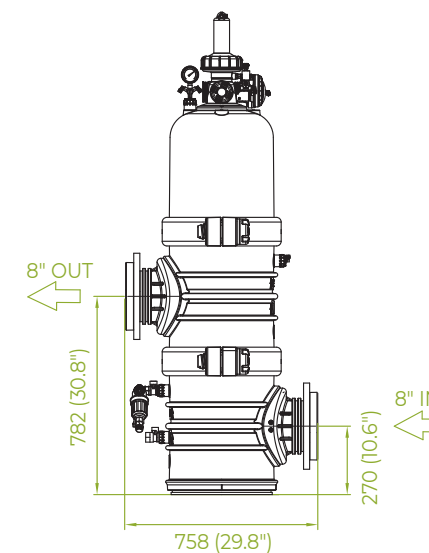
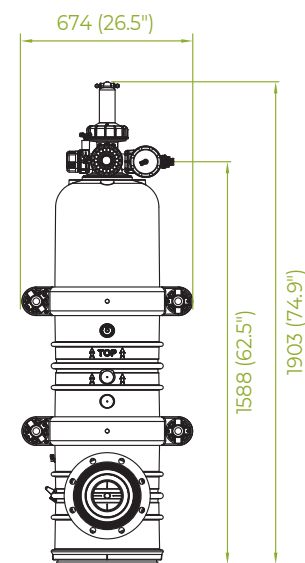
Head Loss Graph (in clean water)



6" SIGMAPRO

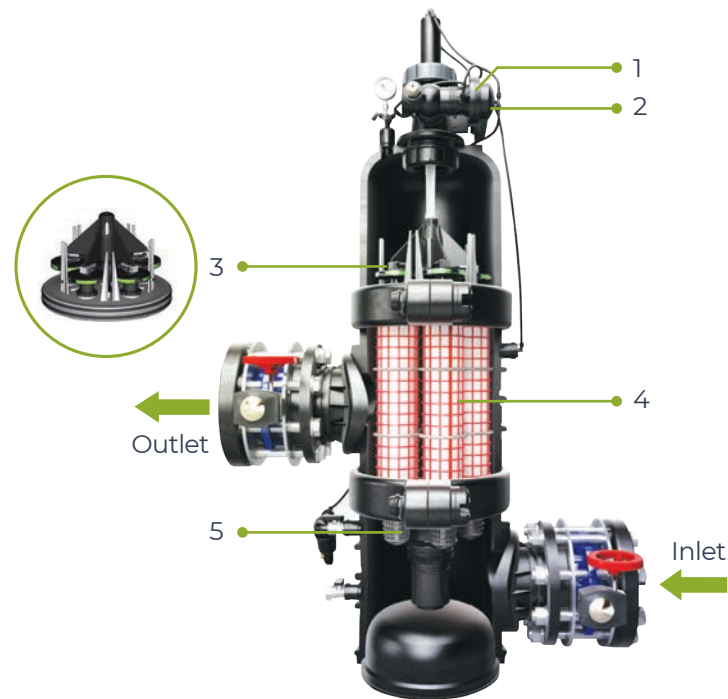


8" SIGMAPRO

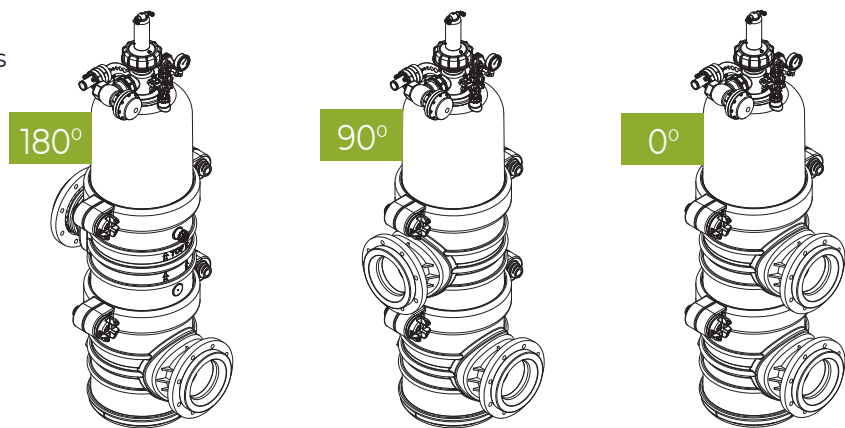


Sigma Pro Parts

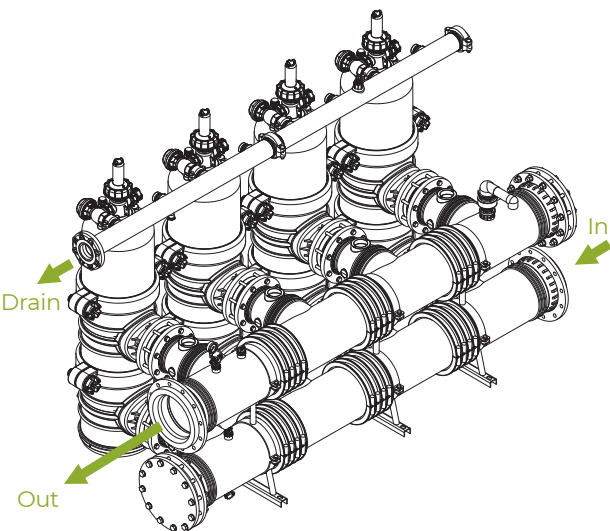
- 1. Flush valve
- 2. ADI-P controller
- 3. Hydraulic turbines
- 4. Fine screens
- 5. Coarse screens



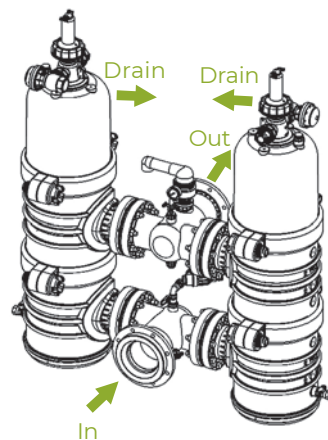
Various Inlet / Outlet Configurations



Sigma Pro 8" installation of 4 units with manifold, for flow rates up to 1,120 m³/h (4,932 gpm)



Sigma Pro 6" installation of 2 units with manifold, for flow rates up to 360 m³/h (1,584 gpm)



Technical Specifications

Filter Model	4" Sigma Pro	6" Sigma Pro	8" Sigma Pro
General data			
Max. flow rate* (130µ) in average water quality	120 m³/h (528 gpm)	180 m³/h (792 gpm)	280 m³/h (1,233 gpm)
Min. operating pressure when cleaning	1.5 bar (22 psi)		
Max. operating pressure	10 bar (145 psi)		
Max. operating temperature	60°C (140°F)		
Filtration area	6,000 cm² (930 in²)	8,000 cm² (1,240 in²)	
Inlet/Outlet diameter	4" (100 mm) Flange & Grooved coupling	6" (150 mm) Flange	8" (200 mm) Flange
Weight	Empty: 75 kg (165 lb) Full: 145 kg (320 lb)	Empty: 110 kg (243 lb) Full: 225 kg (496 lb)	Empty: 120 kg (264 lb) Full: 235 kg (518 lb)

* Maximum flow rates depend on water quality and micron size.

Electronic control	
Control power supply	4 x AA type 1.5V batteries / External 7-14V DC
Solenoid operation data	9-12V DC latching solenoid
DP switch	Integrated sensors

Flushing data	
Exhaust valve	2" (50 mm)
Flushing time	10 seconds
Reject water volume per flush cycle	75 liters (20 gallons) 90 liters (24 gallons)
Min. flow for flushing (at 1.5 bar/22 psi)	34 m³/h (150 gpm) 36 m³/h (158 gpm)

Construction materials	
Filter housing and lid	RPP (reinforced polypropylene) RPA (reinforced polyamide)
Screens	Molded weave wire, stainless steel 316L
Cleaning mechanism	PBT (polybutylene)
Exhaust valve	Polymeric
Seals	EPDM
Control command tubing	PE (polyethylene)

Standard Filtration Degrees						
micron	500	300	200	130	100	80
mm	0.5	0.3	0.2	0.13	0.1	0.08



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