O amiad[®] IRRIGATION





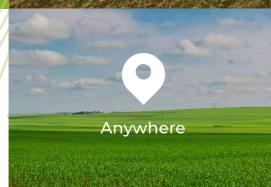
Multi-screen polymeric self-cleaning filter





MASTERS OF FILTRATION









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 We consider every challenge as an opportunity to work side by side with our customers to solve their problems. so we can offer a wide range of filters for every farmer's We'll go anywhere to ensure our filters perform as needs including screen, disc or media technology. expected, 24/7, every day of the year. Our fully automated filtration systems save time, manpower and costs.







Disc Technology

Screen Technology

Media Technology

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.

SIGMAPRO: peformance you can trust

The Filtration Process











Proprietary suction-scanning cleaning technology

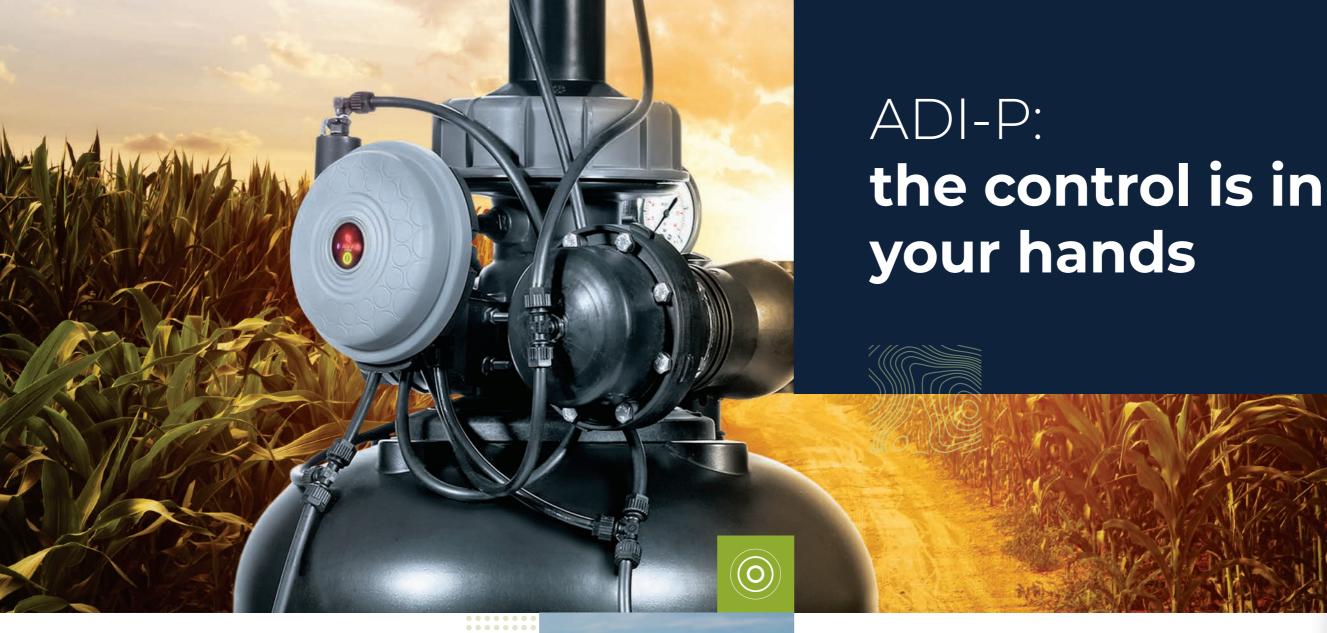


PATENTED

Registered Patent



Low water and energy consumption

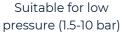


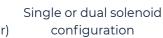
The ADI-P Controller

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









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

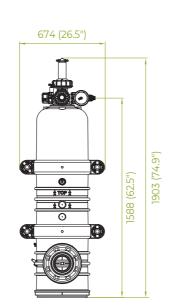
SIGMAPRO Models

4" SIGMAPRO



6" SIGMAPRO

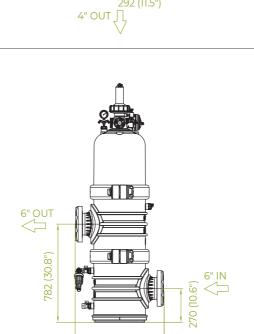




674 (26.5")

rffin

564 (61.6")



700 (27.6")

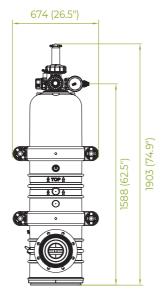
. 292 (11.5")

4" IN

1249 (49.2")

8" SIGMAPRO



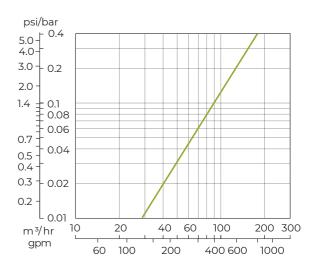


8" OUT (30.8") 8" IN 758 (29.8")

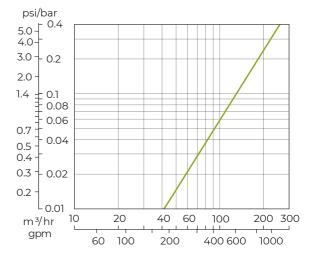
mm (inch)

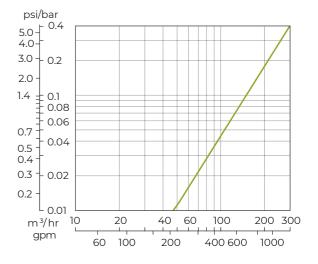
mm (inch)





Head Loss Graph (in clean water)





SIGMAPRO: A Closer Look

Sigma Pro Parts

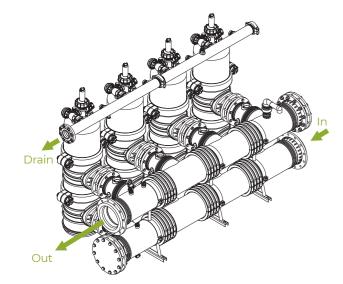
- 1. Flush valve
- 2. ADI-P controller
- 3. Hydraulic turbines
- 4. Fine screens
- 5. Coarse screens

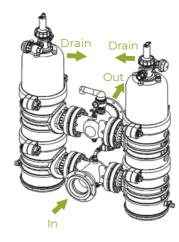




Sigma Pro 8" installation of 4 units with manifold, for flow rates up to 1,120 m^3/h (4,932 gpm)

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 cm ² (930 in ²) 8,000 cm ² (1,240 in ²) | | |
| 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 o | n water quality and micron size | | • |
| Electronic control | | | |
| | | | |

| Electronic control | |
|-------------------------|--------|
| Control power supply | 4 x AA |
| Solenoid operation data | |
| DP switch | |

| Flushing data | |
|---|------------------------|
| Exhaust valve | |
| Flushing time | |
| Reject water volume per flush cycle | 75 liters (20 gallons) |
| Min. flow for flushing (at 1.5 bar/22 psi) | 34 m³/h (150 gpm) |

| Construction materials | |
|------------------------|------|
| Filter housing and lid | R |
| Screens | Mold |
| Cleaning mechanism | |
| Exhaust valve | |
| Seals | |
| Control command tubing | |

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

| all the second | |
|---|--|
| and | |
| | |
| and the second second | |

A type 1.5V batteries / External 7-14V DC

9-12V DC latching solenoid

Integrated sensors

2" (50 mm)

10 seconds

90 liters (24 gallons)

36 m³/h (158 gpm)

RPP (reinforced polypropylene) RPA (reinforced polyamide)

ded weave wire, stainless steel 316L

PBT (polybutylene)

Polymeric

EPDM

PE (polyethylene)





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