



## VAF PL-Series

### Hydraulic Filter

#### General Information

These automatic hydraulic filters combine the advantages of high quality filtration from different water sources (sewage, reservoirs, lakes, etc.) with self-cleaning features, where the flow is uninterrupted during the filtration process.

The filters are designed for use in a wide range of industrial, municipal and irrigation applications.

The main element is made of stainless steel with a large filtration open area for water flow in order to withstand high dirt load and pressure. Cleaning of the screen is performed once the pressure loss across the filter has reached the preset value (up to 0.5 bar or 7 psi).

The flushing valve opens and pressure is released from the hydraulic piston, then water flows outside through the flushing valve. Pressure in the hydraulic motor chamber and the dirt collector is significantly lowered, the dirt collector nozzles movement and rotation cleans the screen's entire internal surface. The flushing cycle takes 5 seconds. The flushing valve closes at the end of the cycle and the filter is clean.

During the cleaning cycle, the filtration process remains uninterrupted.

Call VAF and discover the reasons our customers stay with us. *Wherever Water Flows...*

#### Hydraulic Filter Specifications

##### Materials

- Filter body • Carbon steel with polyester or epoxy powder coating

- Filtration Range • 80 to 500 micron

- Max Working Pressure • up to 10 bar (150 psi)

- Min Pressure During Flushing • 2 bar (30 psi)

- Max Temp • 65° C (150° F)

- Clean Screen Pressure Loss • up to 0.1 bar (1.5 psi)

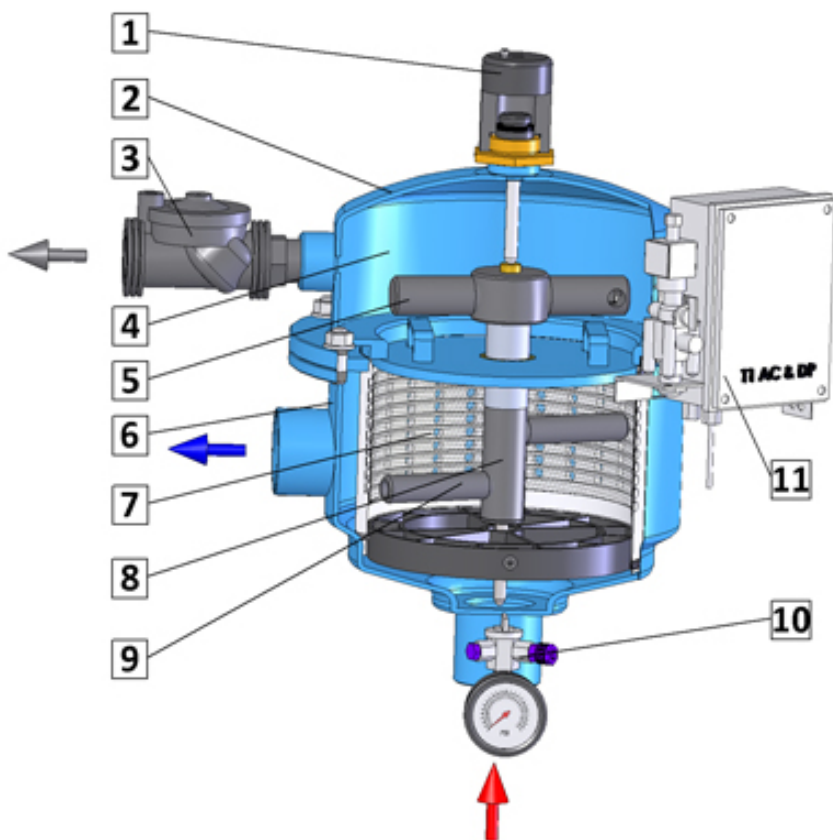
- Inlet/outlet • 2" MPT  
• 3", 4", 6", & 8" Flanged  
• On 90° axis

- Control Voltage • 9 V/12 VDC/24 VAC  
• A time basis backup (preset by the customer), guarantees that flushing cycle will occur even if the head loss has not reached the present value.

## VAF Filtration Systems

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## Filter Components



1. Piston
2. Cover
3. Flushing Valve
4. Flushing Chamber
5. Hydraulic Motor
6. Body
7. Fine Screen
8. Collector
9. Suction Nozzle
10. Pressure gauge
11. Controller

## PL-Series Model Numbers

| MODEL          | Nominal Flow*      |     | Screen Area     |                 | Flg Sizes |
|----------------|--------------------|-----|-----------------|-----------------|-----------|
|                | m <sup>3</sup> /hr | gpm | cm <sup>2</sup> | in <sup>2</sup> |           |
| PL-200-02T-XXX | 34                 | 150 | 1100            | 170             | 2" MPT    |
| PL-300-03-XXX  | 57                 | 250 | 1630            | 250             | 3"        |
| PL-300-04-XXX  | 80                 | 350 | 1630            | 250             | 4"        |
| PL-600-04-XXX  | 90                 | 400 | 3100            | 480             | 4"        |
| PL-900-06-XXX  | 125                | 550 | 4500            | 700             | 6"        |
| PL-1000-08-XXX | 200                | 880 | 5780            | 900             | 8"        |

\*Flow rate is based on 120 micron filtration. Flow rate increases as micron increases.

PL = Piston L config - "Bell"

XXX = Micron size

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