

SELF CLEANING FILTERS

MANUAL & AUTOMATIC

SIZES 20 MM (3/4") - 300 MM (12")

OPLENTY®

Self-cleaning filters are designed specifically to provide efficient filtration for liquids, including those of high viscosity, requiring continuous filtration without interruption to the flow during the cleaning process. There is no operator contact with the process fluid. High quality stainless steel elements are highly effective in removing contaminant particles as small as 25 micron (μ m).

The filter is available for either manual or fully automatic electric or pneumatic operation. The range of optional control devices makes it particularly suitable for continuous processes and for service with high contamination levels.

SELF CLEANING FILTERS -

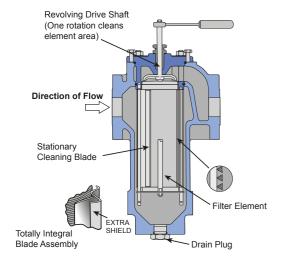
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BENEFITS

- No operator contact with liquid during cleaning operation.
- Minimised product loss during both process production and system cleaning.
- Increased quality output minimum disruption to product flow.
- Reduced contamination less possibility of accidents or operator exposure to the fluid.
- · Reduced maintenance costs automated units eliminate manual cleaning.
- Environment friendly enclosed design with minimal flushing losses.

OPERATION

The liquid enters the body and flows through the element from outside to inside. Debris is collected on the outside of the wedge wire or perforated element, which is cleaned without flow interruption by the rotation of the element against the blades. The debris accumulated during rotation is deposited into the bottom of the filter body from where it is periodically discharged, manually or automatically.





Recycling Water

River & Sea Water

TYPICAL APPLICATION

- · Petrochemicals Adhesives
- Chemicals • Printing
- Chocolate
- Cooling Lines
- HVAC Water Wash Water
- Inks
- Lacquers
- Paints, Stains,
- Varnishes

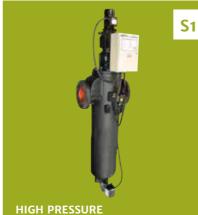
AUTOMATED SELF CLEANING FILTERS

The Plenty Filtration automated self cleaning filter allows for stand alone, low maintenance processing of liquids. The range can be automated, either electronically or pneumatically, from $32 \text{ mm} (1^{1}/4")$ and above. The filters can be supplied wired and fully tested, requiring only on site connection to the power source and dump valve connection.

Cleaning Motor Differential Pressure Switch Control Power Panel Actuated Dump Valve

RANGE

Plenty Filtration offer three forms of blade type self cleaning filters: standard range, high pressure range and rotor blade, all working on the same generic principle. Plenty also offer both standard element and high pressure element for very demanding duties. Fabricated units can also be provided, these contain multiple elements and are suitable for larger capacities.



Models:

Construction: cast



STANDARD PRESSURE Models: 200, 300, 400 and 600 (2"- 6")

and bowl form

stainless steel

Materials: iron, steel and stainless steel

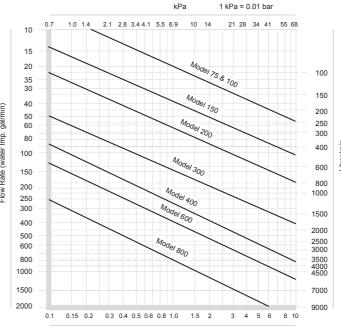
Working pressures: up to 35 bar

Flow rates: up to 3000 litres/min

Working pressures: up to 14 bar Flow rates: up to 1500 litres/min

SIZING CHART / PRESSURE DROP CHART

The chart is for water flowing through a filter without an element. Use the following correction factors for the chosen filtration rating and for liquids of higher viscosity.



Pressure Drop lbf/in

Construction: detachable head

Materials: cast iron and



CORRECTION FACTORS

Either – multiply the pressure drop for water shown in the chart by the following correction factors to obtain the actual pressure drop. (Water has a viscosity of 1 centistoke at 20°C)

Or – divide the acceptable pressure drop by the necessary correction factor in the table below and then use the chart to determine the filter size and flow rate.

VISCOSITY CENTISTOKES	FILTRATION RATING				
	1000 MM	500 MM	200 MM	100 MM	50 MM
1	1	1	1.1	1.2	1.45
50	1.4	1.8	2.1	2.3	2.5
230	1.70	2.5	3.0	3.35	3.75
370	1.8	3.0	3.4	3.8	4.3
860	2.6	3.7	4.2	5.0	6.0

Correction factors for pressure drop

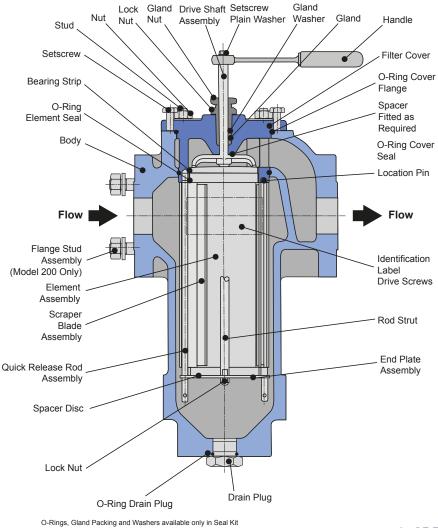


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Sizes 20 mm (3/4") - 300 mm (12")

OPLENTY®

SPARE PARTS IDENTIFIER



SPEED EXCELLENCE PARTNERSHIP

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