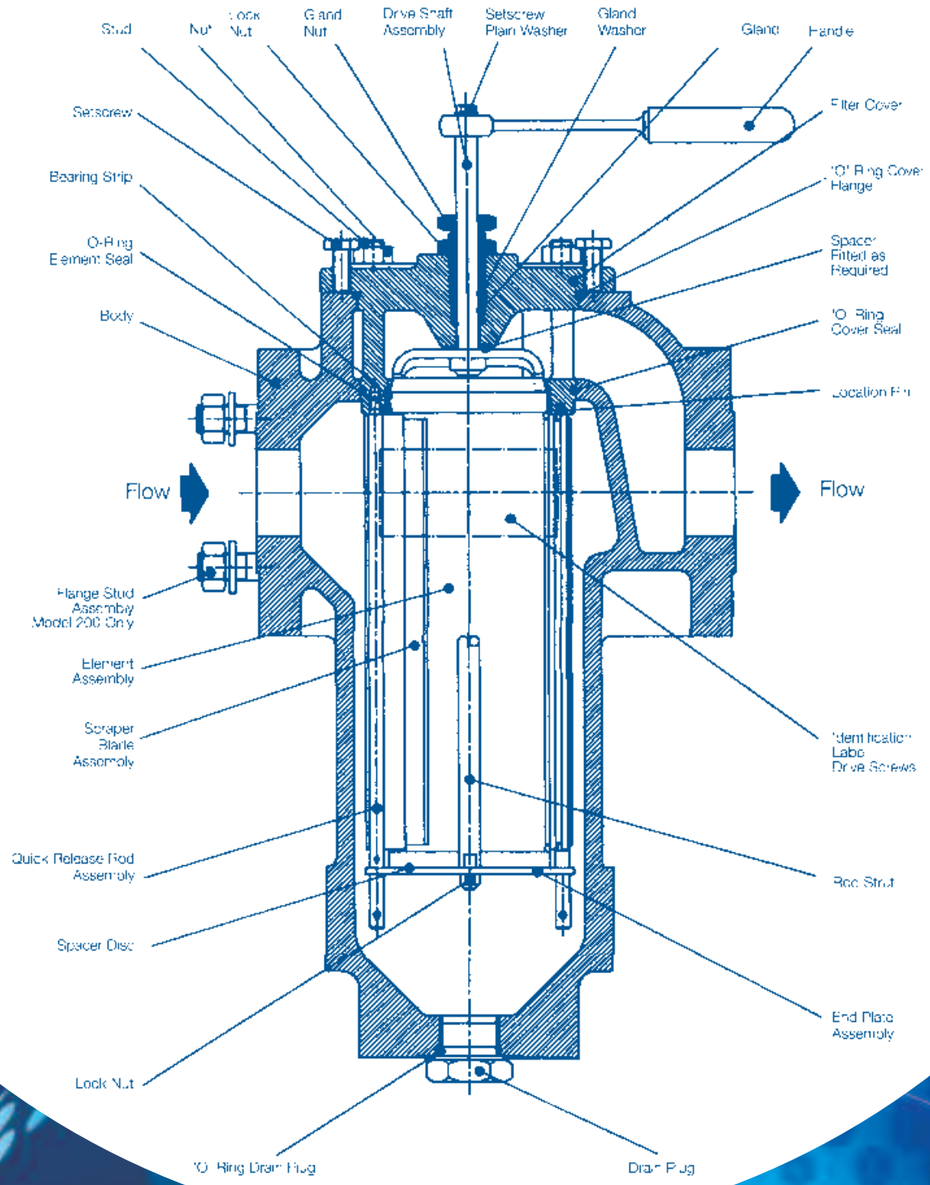
www.airpelfiltration.com

Self Cleaning Filters

Sizes 20mm (¾”) – 300mm (12”)

SPARE PARTS IDENTIFIER



SPX Process Equipment

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Airpel FILTRATION

Complete Solutions for Liquid Filtration

Self Cleaning Filters Manual & Automatic

Sizes 20mm (¾”) – 300mm (12”)

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 50 micron (µm).

In 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 elements against blades. The debris accumulated during rotation is deposited into the bottom of the filter body from where it is periodically discharged, manually or automatically.

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.

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Self Cleaning Filters, Manual & Automatic

Sizes 20mm (¾”) – 300mm (12”)

RANGE

Airpel Filtration offer four forms of blade type self cleaning filters: standard range, high pressure range, vertical exit and rotor blade, all working on the same generic principle. Airpel also offer both standard element and high pressure element for very demanding duties.

STANDARD

Models 075, 100, 125, 150, 200, 300 and 400 (¾” – 4”) available in detachable head and bowl form, suitable for working pressures of up to 14 bar and flow rates up to 1500 litres/min.

VERTICAL EXIT

Models 150, 200, 300 and 400 (1½“ – 4”) vertical exit are of cast steel or stainless steel construction for working pressures up to 35 bar and flow rates up to 1500 litres/min.

HIGH PRESSURE

Models 200, 300, 400 and 600 (2”– 6”) are of cast construction, available in iron, steel and stainless steel for working pressures up to 35 bar and flow rates up to 3000 litres/min.

ROTOR BLADE

Model S4 Rotor Blade is of stainless steel construction with stainless steel or plastic blades for working pressures of up to 14 bar and flow rates up to 1000 litres/min.

FABRICATED

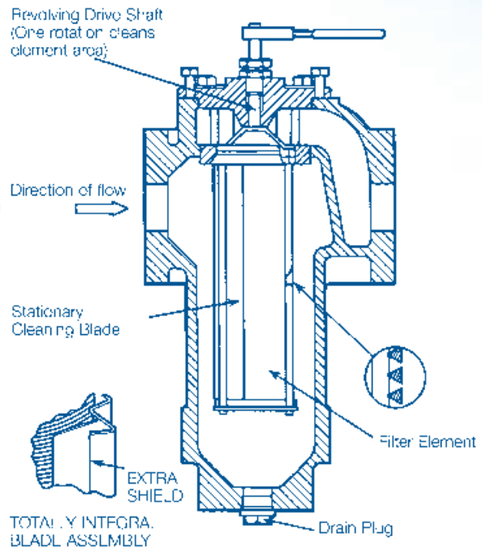
Models 800, 1000, 1200 (8”–12”) in fabricated construction for working pressures to customer specification and flow rates up to 18000 litres/min.

TYPICAL APPLICATION

- Adhesives
- Chemicals
- Chocolate
- Cooling Lines
- HVAC Water
- Inks
- Lacquers
- Paints, Stains, Varnishes
- Petrochemicals
- Printing
- Recycling Water
- River & Sea Water
- Wash Water

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.



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.

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	Flitration Rating				
	1000µm	500µm	200µm	100µm	50µm
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

AUTOMATED SELF CLEANING FILTERS

The Airpel Filtration automated self cleaning filter allows for stand alone, low maintenance processing of liquids. The range can be automated, either electronically or pneumatically, from 32mm (1¼”) and above. The filters can be supplied wired and fully tested, requiring only on site connection to the power source.

Sizing Chart