Cleanova

SELF CLEANING FILTERS

MANUAL & AUTOMATIC
SIZES 20 MM (34") - 300 MM (12")





SELF CLEANING FILTERS

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 (µm).

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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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. Magnets can be nylon coated if required.

TYPICAL APPLICATION

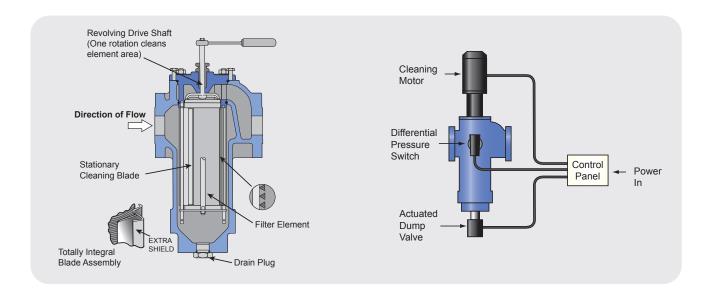
- Adhesives
- Chemicals
- Chocolate
- Cooling Lines
- HVAC Water
- Inks
- Lacquers
- Paints, Stains, Varnishes
- Petrochemicals
- Printing
- Recycling Water
- River & Sea Water
- Wash Water

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.

AUTOMATED SELF CLEANING FILTERS

The filter is of cast construction and is supplied with four quality stainless steel cylindrical baskets which are fitted into the filter in a 2 (left) + 2 (right) arrangement. Just as the standard dual filter range, the construction lends itself to non-interrupted liquid flow during basket removal for cleaning.



RANGE

Cleanova 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.







SIZING CHART / PRESSURE DROP CHART

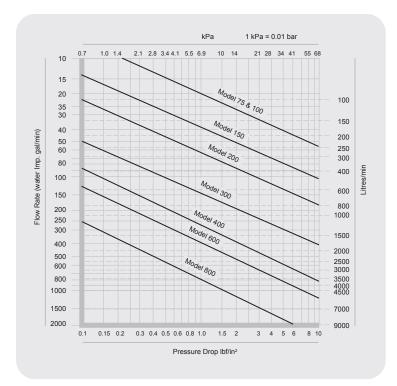
up to 35 bar

up to 3000 litres/min

pressures:

Flow rates:

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.

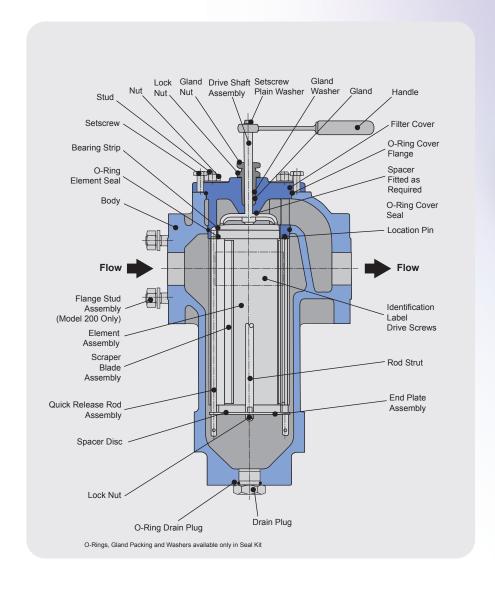
Correction factors for pressure drop

VISCOSITY CEN- TISTOKES	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



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Please contact your local sales representative for product availability in your region.

For more information, visit www.cleanova.com