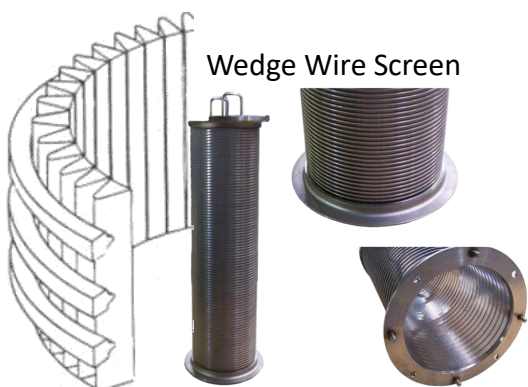




Wedge Wire Screen

Mechanical Self Cleaning Filter Vessel Quick Opening Design - VUMCF

- Self-cleaning filter for high viscosity, high dirt load applications
- Filter screen removal for cleaning in less than 2 minutes
- Filter 25 micron+ particles

Our mechanical self cleaning filter system is designed to handle to filter 25 micron and larger in various industries where high particle content, viscous and sticky liquid which other system will simply can't handle.

UMCF filter is ideal for continuous (and therefore batch) Applications.

Mechanical Operation Principle

Raw liquid enters via the inlet and travels from the inside to the outside of the filter media, contaminants are retained on the inside, clean filtered liquid exits via the outlet. The cleaning disk travels down and then back up by the use of a pneumatic cylinder.

The flow pattern concentrates contaminants at the bottom of the filter housing and the concentrated solids are periodically purged. Purging lasts less than one second, releasing only the volume of the collection chamber and avoiding process interruptions. DF filters are ideal for continuous flow (and therefore batch) applications. In every case, these filters offer significant advantages over alternative filter designs.



VUMCF Features

- Filter basket removal takes only 10 seconds, eliminating the hassle of disassembly that plagues traditional self-cleaning filters.
- Automatically cleaning, filtered fluid automatically exiting.
- Eliminated media disposal costs, no bag, no cartridge.
- Automatic mechanically operation, reduced or eliminated operator intervention.
- Pneumatic driven, no need of electric power, safe, reliable and economic.
- Multi-flow rate available, accommodate a vast range of your application.
- Wide applications, mainly for high viscosity, corrosive liquid, viscosity up to 1000000cp.

VUMCF Engineering Specifications

Specification	VUMCF-16
Micron Ratings	25 μm - 400 μm
Total Volumetric Capacity	41.6 liters
Purge Chamber Capacity	6 liters
Filtration Surface	3935 cm^2
100um Max flow rate (m^3/hr)	6.8-45.4 m^3/hour
Temperature, maximum ($^{\circ}\text{C}$)	160 $^{\circ}\text{C}$
Pressure, maximum	10 bar
Single Unit Weight	97.5 kg
Service Height	2591 mm
Air for Actuator Drive, min.	5 bar@8.5 m^3/hr
Material of Construction	SS304, SS316
Standard Inlet/Outlet	3" Union
Surface Finish	Glass bead blasted



VUMCF Selection Reference

Liquid	Viscosity (cps)	UMCF-4	UMCF-8	VUMCF-16
		Max flow rate (m^3/hr)		
water	1	3	12	45
Glue	10,000-50,000	1	4	12
Edible Oil	10-100	3	12	45
Honey	50-100	3	12	45
Printing Ink	100-1,000	3	12	45
Ink	10-100	3	12	45
Coating	500-1,000	3	12	45
Resin	5,000-50,000	1	4	12