



METALEDGE® FILTERS

SELF CLEANING FILTERS

FLOW RATES FROM 2 TO 400 GPM

METALEDGE® FILTERS PROVIDE ALL-METAL CLEANABLE FILTRATION FOR THE INDUSTRIAL PROCESSING INDUSTRIES

APPLICATIONS

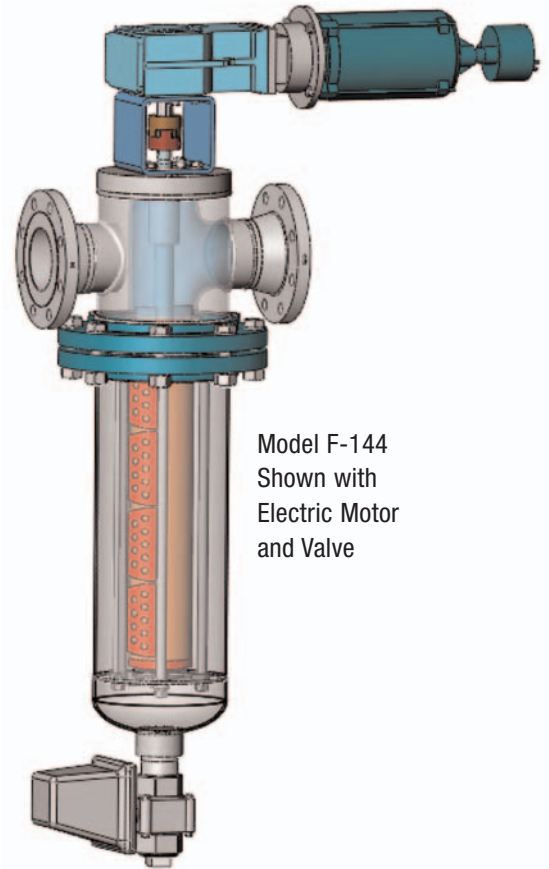
Adhesives	Cosmetics	Oils	Varnish
Chewing Gum Base	Foods	Paints	Water
Coating Slurries	Grease	Petrochemicals	Wax
Coolants	Inks	Toothpaste	

FEATURES

The METALEDGE® FILTER ELEMENT consists of a wedge shaped metal ribbon with projections, wound edgewise on a cylindrical perforated frame. Flow is from outside in.

The openings between the wire windings and the degree of filtration are accurately and permanently established by the height of the projections.

The METALEDGE® FILTER ELEMENT'S unique design allows for greater flow rates and lower pressure drops than other products on the market.



Model F-144
Shown with
Electric Motor
and Valve

SPECIFICATIONS

Model	Ports	Flow Rate of Water in GPM	Operating Pressure	Materials of Construction	Manual/Motor Drive
F-190	3/4" or 1" NPT connections	2 – 16 GPM	150 PSI at 275° F	Housing – Steel Element & Knife – Brass	Manual Only – Knife blade rotates around a stationary element
F-140	1-1/2" NPT connections	5 – 60 GPM	100 PSI at 275° F	Machined Aluminum Head Steel Bowl Stainless Steel Element and Knife	Manual Only – Element rotates against stationary knife blade
F-141	2" NPT connections	6 – 100 GPM	150 PSI at 275° F	All Stainless Steel Construction	Manual or Motor Driven – Element rotates against a stationary knife blade
G-144	4" 150# ASA Flanges	25 – 400 GPM	125 PSI at 275° F	All Stainless Steel Construction (Cast Head)	Motor Driven Only – Element rotates against a stationary knife blade
F-144	4" 150# ANSI Flanges	25 – 400 GPM	150 PSI at 250° F	All Stainless Steel Fabricated Vessel	Motor Driven Only – Element rotates against a stationary knife blade

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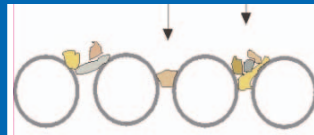


FLOW RATES FROM 2 TO 400 GPM

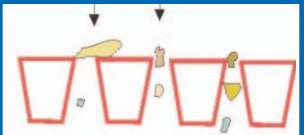
Metaledge® Elements

The wire is preformed to a wedge shape prior to winding to produce a tapered flow path opening inward. Particles larger than the openings between the windings are stopped at the outer surface where they can be readily removed by the cleaning knife. The smaller particles wash through the tapered openings without clogging the element.

Wire Screen vs Purolator Wedge Wire



Wedging action as particles jam in screen.



Every particle that can enter will pass through.

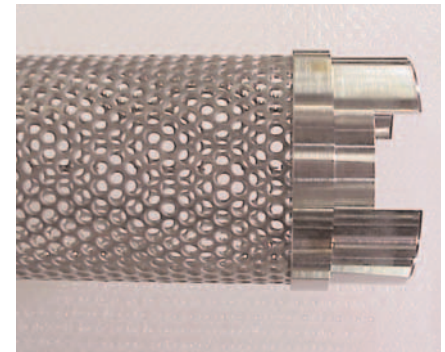
Model F190

Fuel Oil
Oil Burners
Test Stands
Pilot Runs



Model F144 / G144

Toothpaste
Paint
Gum
Adhesives



Model F141

Toothpaste
Gum Base
Lube Oil
Grease
Paint



Element Spacing

Inches	Micron Equivalent
.001	25
.0015	37.5
.002	50
.003	75
.005	125
.007	175
.008	200
.010	250
.015	375
.020	500

Model F140

Lube Oil
Fuel Oil
Dowtherm
Heat Treating Oil
Alcohol

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