Facet
Filtration Group®

AVIATION FUEL FILTRATION

Making the world safer, healthier and more productive®

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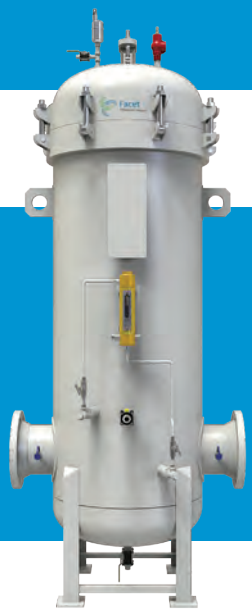
At Facet, our commitment to innovation, expertise, and knowledge has led us to develop cutting-edge technologies that set the standard in the aviation industry.

With an impressive legacy of 80 years, Facet is renowned for providing high-quality filtration solutions.

Today, we are thrilled to bring our wealth of expertise directly to you. Our in-house research empowers us to create contaminant management solutions that seamlessly integrate technology-driven products, advanced testing, and exceptional service.

Choosing Facet is more than adopting a filtration solution – it's partnering with a company dedicated to enhancing your legacy.
We stand ready to help you build and secure a future of reliability, performance, and excellence in aviation filtration, contributing to making the world safer, healthier, and more productive.

MICROFILTERS



M SERIES MICROFILTER HOUSINGS

Facet M Series prefilter housings, compliant with EI-1596 standards, are designed to protect equipment and prolong cartridge life by accommodating high-efficiency filter cartridges.

They are used ahead of other equipment such as clay treaters and coalescer separators.

Facet M Series housings are available in vertical and horizontal configurations, with various styles and sizes to be adapted to our customer's needs.

- Solids like rust, dirt, pipe scale, sand and metal removed from fuel in a single pass
- Compatible with high-efficiency filter cartridges for continuous solid removal
- Easy servicing, low maintenance design
- ASME Code, Section VIII standards compliant for durability and safety
- Reliable performance meet the most stringent industry requirements

SOLIDS REMOVAL ELEMENTS

CIF SERIES
CRUSHABLE INCINERABLE FILTERS

CIF Series offers high-efficiency pleated paper filters specifically engineered to effectively remove solid contaminants from fuels.

- Cost-efficient: Cuts disposal volume by 80% and freight costs by 75%
- Incinerable, metal-free design
- Micron ratings: 0.5 to 75
- EI-1590 compliant in 5 microns
- Easy alignment, installation and changeout
- One-piece cartridges, lengths: 14" to 56"
- Comparable flowrate to other 6" cartridges

M + CIF SERIES
DUAL MEDIA: SAME BENEFITS, LONGER LIFE

Dual Media Pleated Paper filters last longer than standards.
Coarse filtering upstream, polishing downstream.

- Enhanced Filtration Efficiency: Dual media design ensures superior filtration.
- Extended Service Life: Lasts longer than standard filters
- Increased Solids Holding Capacity: Minimizes downtime with greater capacity
- Versatile and reliable filtration

M SERIES
HIGH EFFICIENCY
PLEATED PAPER FILTERS

- Improved efficiency and lifespan result in reduced operating costs
- Superior solids holding capacity
- Lightweight to reduce freight costs
- Metal parts coated against corrosion
- Available in three lengths, simplifying maintenance and changeouts

FA SERIES
EI 1590 QUALIFIED
CARTRIDGES

- High efficiency, superior durability
- One-piece construction: reduces downtime and changeout costs
- Micron ratings: 1, 2, 3, and 5
- Manufactured with microfiberglass and cellulose blend media for desired rating

MPI SERIES
INSIDE-TO-OUT
FLUSHING FILTERS

Used in filter water separator vessels only during flushing events on new systems or system repairs

- High efficiency pleated paper
- Higher solids retention than coalescers
- pH range from 5 to 9
- Micron ratings: 0.5, 1, 2, 5

FILTER WATER SEPARATORS

HCS / VCS SERIES

Filter Water Separators ensure high-quality fuel for aircraft engines via a two-stage process.
Qualified to current edition of EI 1581, they assure reliability and compliance.
VCS & HCS Series deliver robust performance, safeguarding engine integrity and safety.

- EI-1581 Qualified
- EI-1596 Compliant
- Efficient Contaminant Removal
- No Internal Moving Parts
- Customizable Housing
- Easy Servicing and Maintenance

COALESCER ELEMENTS

Coalescer cartridges are crucial in aviation fuel filtration, eliminating ultra-fine solids and water from fuel.
Facet's cartridges lead the industry with unmatched reliability and efficiency.

CAA SERIES 5
EI 1581,6TH EDITION
CATEGORY C

- Maximum water coalescence efficiency
- Multi-layered media for increased solids holding capacity
- Removes ultra-fine solids
- Screw base or open-end configurations

CM SERIES
EI 1581,6TH EDITION
CATEGORY M

- Maximum water coalescence efficiency
- Multi-layered media for increased solids holding capacity
- Removes ultra-fine solids
- Balanced flow and structural integrity

CM100 SERIES
EI 1581,6TH EDITION
CATEGORY M100

- Maximum water coalescence efficiency
- Multi-layered media for increased solids holding capacity
- Removes ultra-fine solids
- Screw base or open-end configurations

SEPARATOR ELEMENTS

Facet separator cartridges are vital in aviation fuel filtration, ensuring purity by efficiently removing fine water droplets.
They are integral to engine reliability and flight safety, highlighting Facet's commitment to excellence.

SS-5 SERIES
EI 1581,6TH EDITION
CATEGORY C

- Cleanable and reusable
- Superior water barrier
- High temperature compatibility
- Treated metal components for corrosion protection

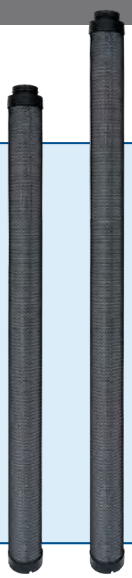
SM SERIES
EI 1581,6TH EDITION
CATEGORY M

- Cleanable and reusable
- Superior water barrier
- High temperature compatibility
- Treated metal components for corrosion protection

SM100 SERIES
EI 1581,6TH EDITION
CATEGORY M100

- Cleanable and reusable
- Superior water barrier
- High temperature compatibility
- Treated metal components for corrosion protection

ADDITIONAL AVIATION FUEL FILTRATION SOLUTIONS



WATER BARRIER ELEMENTS

FWB SERIES

2" OD FILTER MONITOR REPLACEMENT CARTRIDGES
EI-1588 2nd Edition Qualified

- Effectiveness against low-water emulsions
- High performance in total water submersion scenarios
- Ability to manage water slugs at or above 101.5 psid (7 bar)
- Effective in fuel with FSII (anti-icing additive)
- Outstanding dirt efficiency

- **CUTTING-EDGE BARRIER TECH.** Prevents the flow of water and dirt downstream, allowing only clean and dry fuel
- **RESOURCE-EFFICIENT.** No additional electronic sensors needed
- **MEDIA MIGRATION UNCERTAINTIES RESOLVED.** Eliminate concerns related to SAP media migration or the presence of extrudables downstream and in filtration systems
- **COMPATIBLE MATERIALS.** Utilizes industry-acknowledged construction materials for reliability and performance

CLAY TREATERS

They play a vital role safeguarding downstream fuel filtration systems and Jet fuel by efficiently removing surfactants, color, and additives.

HOUSINGS

F SERIES

- Prolong FWS cartridges lifespan
- Removable cartridge mounting post
- Versatile design for installation flexibility
- Welded carbon steel construction

ELEMENTS

- Superior water resistance and contaminant removal
- Bag & Canister type elements
- Compatible with other manufacturer's clay treater housings

SINGLE-STAGE COALESCERS

Engineered with precision and reliability, these products excel in removing gross amounts of water and solid contaminants (over 0.5 ppm) guaranteeing peak performance and durability.

HP SERIES HOUSINGS

- Superior filtration efficiency
- No internal moving parts
- Robust construction for durability
- Versatile sizing options

HAYPACK SEPARATORS

- Designed for removal of heavy amounts of water and particulate from jet fuel
- Variety of medias to meet flow, contaminant and effluent requirements

MULTIPURPOSE HOUSINGS

They may be used as microfilters or filter water separators depending on the cartridges installed.

FUEL-GARD®

VF-21/22SB Series

- Versatile, compact, light-weight housings
- Small footprint
- Swing bolt quick open closure

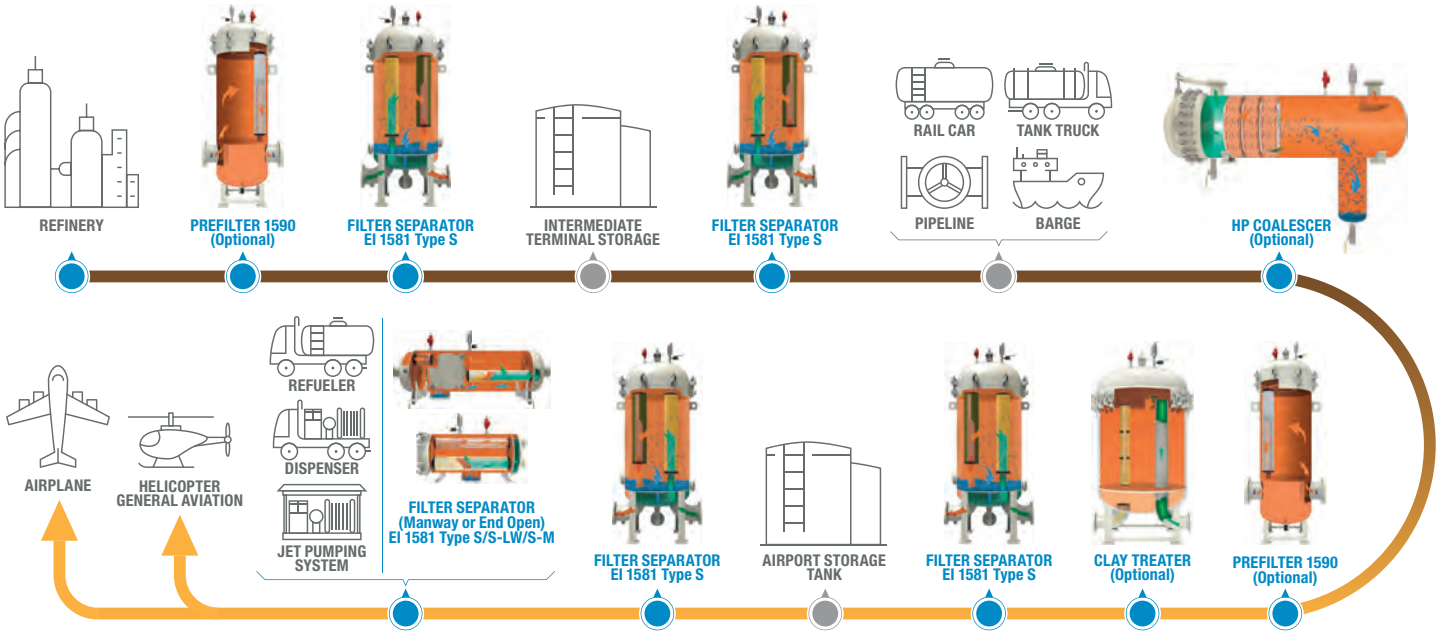
SUPERFLEX™ SERIES

- Small, economical carbon steel housings
- ASME Code, Section VIII, stamped and certified

FROM THE REFINERY TO THE AIRCRAFT

Since 1943, Facet Filtration has been a trailblazer in advanced filtration and separation technologies, leading the way in aviation fueling.

From the initial refinery stages to the final aircraft fueling, our cutting-edge line of commercial and military aviation products ensures the delivery of impeccably clean, dry fuel at every step of the journey.



THREE EI1581 FWS CATEGORIES DEFINED BY FUEL BEING USED	
CATEGORY C	Category C filter/separators are for use in commercial Jet-A, Jet-A1 fuel and Aviation Gasoline. They are tested in fuel containing Stadis 450 and DCI-4A.
CATEGORY M	Category M filter/separators are for use in military JP-8, JP-5 or F-24 fuel. They are tested in fuel containing Stadis 450, DCI-4A and Di-EGME (FSII). Note: testing to Category M also qualifies for Category C fuel at Category M flow rate.
CATEGORY M100	Category M100 filter/separators are for use in military JP-8+100 fuel. They are tested in fuel containing Stadis 450, DCI-4A, Di-EGME (FSII) and Spec Aid 8Q462.

THREE TYPES OF EI1581 FWS VESSELS, DEPENDING ON LOCATION USED	
TYPE S	Type S filter/separators are used at filtration points where significant levels of both dirt and water can be expected. Note: testing to Type S qualifies to Type S-LW and Type S-M.
TYPE S-LW	Type S-LW filter/separators are used for mobile equipment where minimal amount of water can be expected.
TYPE S-M	Type S-M filter/separators are used for mobile equipment where minimal amounts of dirt and water can be expected.
For Similarity Data Sheets and Compliance Certificates, be sure to specify vessel model number, type and quantity of elements used and maximum operating flow rate.	

Facet Products:

VESSELS		ELEMENTS	
TYPE	FACET SERIES	TYPE	FACET SERIES
Prefilters	M Series	Solids Removal	FA Series | M Series | CIF Series | M&CIF Series
Filter Separators	HCS / VCS Series	Water and Fine Solids Removal	**Coalescers:** CAA 5 Series | CM Series | CM100 Series **Separators:** SS Series | SM Series | SM100 Series | ST Series
HP Coalescers	HP Series	Bulk solids and water removal - repacks	
Clay Treaters	F Series	Surfactant Removal	C-766-4 (Canister) | C-727-6 (Bag) | C-727-2 (Bag)

SERVICES

We take our responsibility in partnering with our customers seriously. That is why the services we provide at the forefront of everything we do. With our engineering, field, and lab services we are involved with our customers every step of the way.

Engineering Services

Consultancy & Analysis
- System Optimization–

Process Engineering Package (PEP)

Existing Vessel Evaluation

New Vessel Design

Field Services

Field Service Support

Site Inspections

On-site (operator) training

Lab Services

Equipment and Process Optimization

Upgrades and overhauls

Fluid Quantification

Quick Scan laboratory test

Extensive laboratory test

Facet
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18062024

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