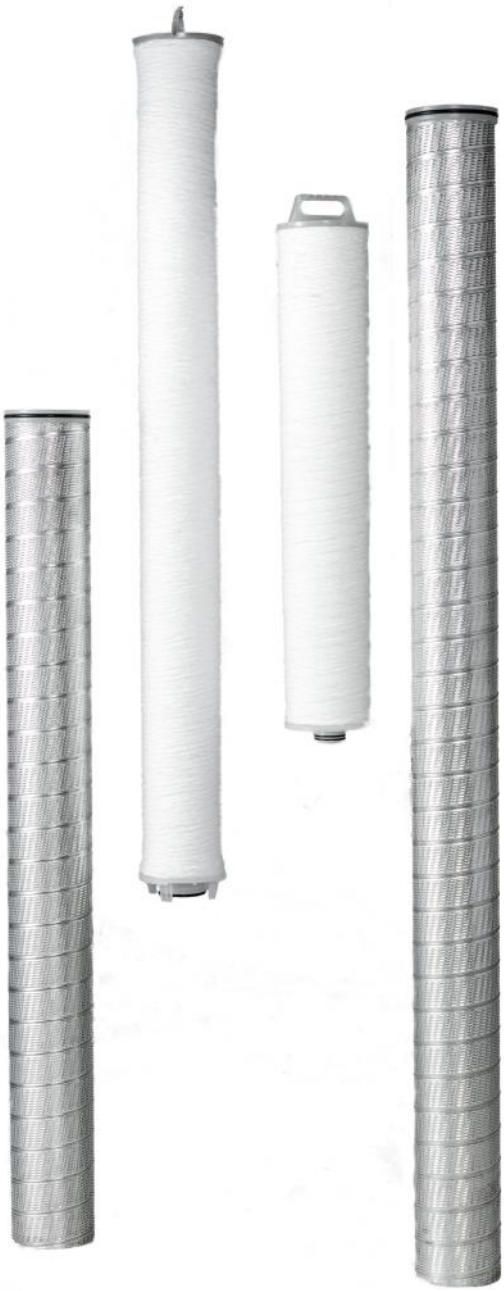
ColemanFilter
COMPANY

Product Overview



Torpedo, Rocket and Patriot Series

High Flow Cartridges

Bullet Series

Bag Replacement Filters

Depth Series

Depth String Wound Cartridges

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Bullet Series

Bag/Sock Replacement Filters

Our Bag Replacement Filter (Bullet Series) has changed the way that bag filtration vessels are viewed and used. These filters utilize a proprietary string winding approach to create layers of filtration 1.5" deep. This approach traps and removes a larger volume of particles and contaminants than bags/socks. In some applications customers have captured as much as 15 pounds of particulates. Gone are the days of replacing and disposing of bags/socks multiple times per day or week and sketchy performance in capture.

These filters are a direct replacement to #2 filter bags and fit directly into all major manufacturer baskets.

500 Cubic Inches of Depth Filtration.

Features/Benefits:

- Extend time between change-outs and reduce downtime.
- Extremely efficient in capturing and lowering Total Suspended Solids (TSS).
- Save on labor costs, disposal and liability associated with frequent change-outs.
- Reduce ruptures that can contaminate your process.
- Protect wells and pumps with increased water quality.

MEDIA OPTIONS: Polypropylene (EP), FDA Polypropylene (FP)

CENTER CORE: Polypropylene

TOP CAP: 304 S/S

BOTTOM CAP: Polypropylene

LENGTH: 10" (#1 Bag) 24" (#2 Bag)

RECOMMENDED CHANGEOUT: 35 PSID

FLOW RATE: 80-125 GPM (Depending on fluid type)

MAX TEMPERATURE: 160°F

MICRON RATING EFFICIENCY RANGES (Estimated):

Bullet-A - Ranges from .5 Micron (90%) to 15 Micron (98%)

Bullet-B - Ranges from 10 Micron (90%) to 50 Micron (98%)

Bullet-C - Ranges from 50 Micron (90%) to 125 Micron (98%)

Bullet-D - Ranges from 125 Micron (90%) to 200 Micron (98%)

Bullet-E - Ranges from 200 Micron (90%) to 250 Micron (98%)

Bullet-F - Ranges from 250 Micron (90%) to 300 Micron (98%)

* Other ranges available upon request.

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Bullet in the Field

Applications:

- Chemical Plants/Processes
- Ethanol Plants
- Saltwater Disposal Facilities
- Water Treatment/Recycling
- Mixing Plants
- Anywhere solids need to be removed and bags/sock change-outs are too frequent

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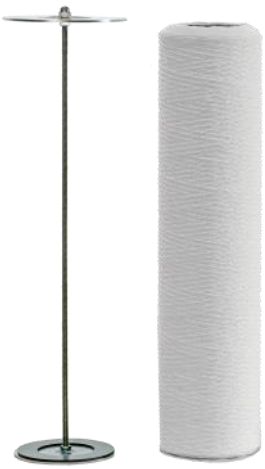
Silver Bullet Series (High Temp)

Bag/Sock Replacement Filters

Our Silver Bullet bag replacement filters are a high temperature alternative to bags/socks. These filters utilize a proprietary string winding approach to create layers of filtration 1.5” deep. This approach traps and removes a larger volume of particles and contaminants than bags/socks. In some applications customers have captured as much as 15 pounds of particulates. Gone are the days of replacing and disposing of bags/socks multiple times per day or week and sketchy performance in capture.

The top and bottom cap, along with the connecting rod, are made from reusable 304 stainless steel - allowing you to replace only the double open-ended cartridge.



Reusable caps and connecting rod.

Features/Benefits:

- Over 500 Cubic Inches of depth media that loads up from the inside to the outside of the filter.
- Extend time between change-outs and reduce downtime.
- Extremely efficient in capturing and lowering Total Suspended Solids (TSS).
- Save on labor costs, disposal and liability associated with frequent change-outs.
- Reduce ruptures that can contaminate your process.
- Protect wells and pumps with increased water quality.

MEDIA OPTIONS: Polyester (PE), Fiberglass (FG), Bleached Cotton (CE)

CENTER CORE: 316 S/S

TOP CAP: 304 S/S

BOTTOM CAP: 304 S/S

LENGTH: 10” (#1 Bag) 24” (#2 Bag)

RECOMMENDED CHANGEOUT: 35 PSID

FLOW RATE: 80-125 GPM (Depending on fluid type)

MAX TEMPERATURE: Polyester (350^{o}F), Fiberglass (750^{o}F), Bleached Cotton (300^{o}F)

MICRON RATING EFFICIENCY RANGES (Estimated):

Silver Bullet-A - Ranges from .5 Micron (90%) to 15 Micron (98%)

Silver Bullet-B - Ranges from 10 Micron (90%) to 50 Micron (98%)

Silver Bullet-C - Ranges from 50 Micron (90%) to 125 Micron (98%)

Silver Bullet-D - Ranges from 125 Micron (90%) to 200 Micron (98%)

* Other ranges available upon request.

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Rocket Series

Outside/In High Flow

Coleman Filter Company has designed the only depth string wound high flow elements on the market. The Rocket Series (Outside-In flow direction) filters compete directly with pleated surface filters from 3M/Cuno. Our Rocket Series filters provide more depth (up to 1500 cubic inches) to trap and remove a larger volume of particles and contaminants than their pleated competition.

Depending upon the micron, these filters can achieve flow rates of up to 500 gallons per minute (at 150 PSI). More impressive is the shear volume of particulates that can be captured utilizing our proprietary gradient winding approach.

These products are ideal for use in process water applications including:

- Industrial Municipal Water
- RO Prefiltration
- Frack Flowback
- Frack Delivery
- Coil Tubing/Mixing Plant
- Production Disposal
- Well Protection
- Pump Protection
- Recycle/Reuse
- Commercial SWD

1500 cubic inches of depth filtration versus surface filtration measured in square inches.

MEDIA OPTIONS: Bleached Cotton, FDA Bleached Cotton, Natural Cotton, Polypropylene, FDA Polypropylene, Polyester

CORE: Tin, 304 S/S

END CAPS: Polypropylene

LENGTHS: 40”, 60”, 80”

RECOMMENDED CHANGEOUT: 35 PSID

FLOW RATE: 300-500 GPM (Depending on fluid type and micron)

Micron Rating Efficiency Ranges (Estimated):

Rocket-A - 92% efficient at 15 Micron ranging to 85% efficient at 5 Micron

Rocket-B - 92% efficient at 50 Micron ranging to 85% efficient at 20 Micron

Rocket-C - 92% efficient at 125 Micron ranging to 85% efficient at 75 Micron

Rocket-D - 92% efficient at 200 Micron ranging to 85% efficient at 150 Micron

* Other ranges available upon request.

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Torpedo Series Filter

Inside/Out High Flow

1100 Cubic Inches of Filtration Inside 60" Version

The Torpedo Series from Coleman Filter Company is a 6" OD string wound filter element 40", 60" or 80" in length. They provide more depth (up to 1100 cubic inches at 60" length) to trap and remove a larger volume of particles and contaminants than their pleated competition. Depending upon the micron, flow rates of up to 500 GPM (60", at 150 PSI) can be achieved per filter. These elements replace elements from Pall, 3M, FTC, Fil-Trek, Parker, Shelco, Jonell, PecoFacet, Global and others.

The Torpedo is ideal for use in process water systems including:

- Industrial Municipal Water
- RO Prefiltration
- Coil Tubing/Mixing Plant
- Production Disposal
- Well Protection
- Pump Protection
- Recycle/Reuse
- Commercial SWD

When competing head-to-head with any pleated filter (single pleat, multi-pleat, radial pleat, laid over pleat, etc.) in those applications, the Torpedo is outperforming them by multiples of 5 or more. Simply put, if you are using a pleated filter in any of these applications you can expect to see savings not only in direct filter consumption cost but also will see reduced downtime, maintenance and labor costs.

MEDIA OPTIONS: Polypropylene

CAGE: Tin

LENGTH: 40", 60" or 80"

MAX TEMPERATURE: 180°F

RECOMMENDED CHANGEOUT: 35 PSID

FLOW RATE: 300-500 GPM (Depending on fluid type, based on 60" length)

MICRON RATING EFFICIENCY RANGES (Estimated):

Torpedo-A: 98% efficient at 15 Micron ranging to 90% efficient at .5 Micron

Torpedo-B: 98% efficient at 50 Micron ranging to 90% efficient at 10 Micron

Torpedo-C: 98% efficient at 125 Micron ranging to 90% efficient at 50 Micron

Torpedo-D: 98% efficient at 200 Micron ranging to 90% efficient at 125 Micron

Torpedo-E: 98% efficient at 250 Micron ranging to 90% efficient at 200 Micron

Torpedo-F: 98% efficient at 250 Micron ranging to 90% efficient at 300 Micron

* Other ranges available upon request.

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Torpedo in the Field

Applications:

- Power Plants
- Pulp & Paper
- Municipalities
- Chemical Plants
- Refineries
- Sea Water Injection
- Saltwater Disposal Facilities
- Water Treatment/Recycling
- Mixing Plants

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Silver Torpedo Series (High Temp)

Inside/Out High Flow

The Silver Torpedo Series from Coleman Filter Company is a high temperature capable (250°F) 6" OD string wound filter element 60" in length. They provide more depth (1100 cubic inches) to trap and remove a larger volume of particles and contaminants than their pleated competition. Depending upon the micron, flow rates of up to 500 GPM (at 150 PSI) can be achieved per filter. These elements replace elements from Pall, 3M, FTC, Fil-Trek, Parker, Shelco, Jonell, Royal PecoFacet and others.

These products are ideal for use in process water systems including:

- Gas Plants
- Refineries
- Chemical Processing
- Hot Water Loops
- Boiler Make-up Water
- Lubricating Oil
- Solvents
- Distillate Fuel
- Hydraulic Fluids
- Bio Fuels

When competing head-to-head with any pleated filter (single pleat, multi-pleat, radial pleat, laid over pleat, etc.) in those applications, the Torpedo is outperforming them by multiples of 5 or more. Simply put, if you are using a pleated filter in any of these applications you can expect to see savings not only in direct filter consumption cost but also will see reduced downtime, maintenance and labor costs.

MEDIA OPTIONS: Polyester, Bleached Cotton, Natural Cotton

CAGE: Tin

RECOMMENDED CHANGEOUT: 35 PSID

FLOW RATE: 300-500 GPM (Depending on fluid type)

MAX TEMPERATURE: 250°F

MICRON RATING EFFICIENCY RANGES (Estimated):

Torpedo-A: 98% efficient at 15 Micron ranging to 90% efficient at .5 Micron

Torpedo-B: 98% efficient at 50 Micron ranging to 90% efficient at 10 Micron

Torpedo-C: 98% efficient at 125 Micron ranging to 90% efficient at 50 Micron

Torpedo-D: 98% efficient at 200 Micron ranging to 90% efficient at 125 Micron

Torpedo-E: 98% efficient at 250 Micron ranging to 90% efficient at 200 Micron

Torpedo-F: 98% efficient at 250 Micron ranging to 90% efficient at 300 Micron

* Other ranges available upon request.

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Patriot Series

40” Outside/In High Flow

The Patriot Series of elements are an Outside/In flow element 40” in length that fit into a 3M (or other) vessel designed for the 3M/Cuno 740 element. Our Patriot filters provide more depth (up to 700 cubic inches) to trap and remove a larger volume of particles and contaminants than their pleated competition.

Depending upon the micron, these outside/in filters can achieve flow rates of up to 4 bbl/min. More impressive is the shear volume of particulates that can be captured utilizing our proprietary gradient winding approach. In a 29-filter vessel at a water treatment facility in Big Lake, TX, filters are requiring a change-out after between 350,000 and 400,000 barrels (13,000 and 14,000 barrels per filter).

These products are ideal for use in process water systems including:

- Frack Flowback
- Frack Delivery
- Coil Tubing/Mixing Plant
- Production Disposal
- Well Protection
- Pump Protection
- Recycle/Reuse
- Commercial SWD
- Industrial Municipal Water
- RO Prefiltration

MEDIA OPTIONS: Bleached Cotton, FDA Bleached Cotton, Natural Cotton, Polypropylene, FDA Polypropylene, Fibrillated Polypropylene, Fiberglass, Rayon, Polyester, Nylon

CENTER CORE: Polypropylene

RECOMMENDED CHANGEOUT: 35 PSID

FLOW RATE: 160-225 GPM (Depending on fluid type)

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String Wound Filters

Media Guide:

Industrial Polypropylene (EP) - used in the filtration of water, potable liquids, animal and vegetable oils, organic acids, alkalies and many other chemicals.

FDA Polypropylene (FP) - meet FDA requirements for the potable liquids, vegetable oils, beverages, organic solvents, water, dilute acids, petroleum oils and other services.

Natural Cotton (CU) - used in applications including midstream natural gas gathering, refineries, oils, water, paints, organic solutions, alcohols and petroleum and have a temperature rating up to 300ºF.

White (Bleached) Cotton - for distilled water, beverages, vegetable oils, petroleum, fatty acids and alcohols. Rated to 300ºF.

FDA Bleached Cotton - meet FDA requirements for the potable liquids, vegetable oils, beverages, organic solvents, water, dilute acids, petroleum oils and other services. Rated to 300ºF.

Polyester - have a chemical resistance similar to polypropylene, with higher temperature resistance (350ºF).

Fiberglass - recommended for high temperatures and high corrosion applications. For use to 800ºF.

Fibrillated Polypropylene - a non-migrating slit film polypropylene - free of extractables that we recommend for use in ultra-pure liquids, electronics, and plating where non-leaching is critical.

Rayon - have a fluid compatibility similar to bleached cotton, but are more coarse and less absorbent than cotton. Swells in aqueous solutions.

Nylon - used in special process applications, concentrated alkalies and hydrocarbons.

Core Guide:

Polypropylene (P) - Economical core of choice for most applications in water and corrosives to 200º F. FDA material.

Tin Plated Steel (T) - General purpose metal core for oils, solvents, paints, and other non-FDA applications. For use to 400º F.

304 Stainless Steel (S) -For high temperature applications on diluted acids and moderately corrosive fluids. FDA applications. For use to 750º F.

316 Stainless Steel (A) -For high temperature applications on strong acids and highly corrosive fluids. FDA applications. For use to 750º F.

Tin Plated Steel Wildcatter (TW) - Same as above with 1.5” internal diameter.

304 Stainless Steel Wildcatter (SW) - Same as above with 1.5” internal diameter.

316 Stainless Steel Wildcatter (AW) - Same as above with 1.5” internal diameter.

Glass Filled Polypropylene (GP) - Polypropylene core reinforced with glass fibers to provide additional strength and durability and chemical resistance.

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ColemanFilter COMPANY

String Wound Filters

Nomenclature

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Media

CU – Natural Cotton
CF – FDA Bleached Cotton
CE – White (Bleached) Cotton
FIB – Twisted Fibrillated Poly
FP – FDA Polypropylene
EP – Polypropylene
NY – Nylon
RA – Rayon
PE – Polyester
FG – Fiberglass

Micron

0.5	1	3	5
10	15	20	25
30	50	75	100
125	150	200	

Element Diameter

B - 1 ½"	G - 2"	E - 2 ¼"
F - 2 ⅜"	C - 2 7/16"	R - 2 ½"
N - 2 5/8"	S - 2 3/4"	P - 2 7/8"
W - 3"	Q - 4"	WL - 4 1/4"
X - 4 1/2"	M - 4 5/8"	V - 5"
Z—5 1/2"	Y - 6"	U - 6 1/4"

Core Extension

PE – Poly Extender
EC – Extended Core
ECC – Extended Crimped Core

End Treatment

222 – 222 End Cap
PFC – Poly Flat Cap
PFN – Poly Fin (Spear)
PSC – Poly Spring
226 – 226 End Cap
MCS – Metal Cap w/Top Spring
MEC – Metal End Cap

Core Cover

CC – Polyester Core Cover
FCC – Fiberglass Core Cover
CB – Carbon Cover

Core Material

P – Polypropylene
T – Tin Plated Steel
S – 304 Stainless Steel
A – 316 Stainless Steel
TW – Tin Wildcatter
SW – 304 Stainless Steel Wildcatter
AW – 316 Stainless Steel Wildcatter
GP – Glass Filled Polypropylene

Element Length

5	9.75	10	12
12.5	19.5	19.75	20
29.25	29.5	30	36
38	39	40	50
60	70	72	80

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End Treatments

222 End Cap

226 End Cap

Poly Flat Cap

Poly Extender

Poly Spring Cap

Extended Crimped Core

Poly Fin (Spear)

Metal Cap with Top Spring

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