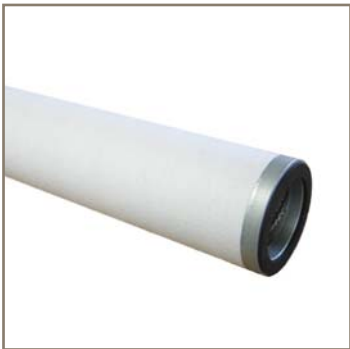




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Oil & Gas | Downstream Applications

Filtration solutions for Final Product Filtration



domnick
hunter

ENGINEERING YOUR SUCCESS.

Filtration for process efficiency

From crude to final production

When refining presents complex challenges, Parker domnick hunter filtration systems present solutions which respond to today's demanding worldwide market. We offer innovative and application-specific filtration to help ensure integrity and purity throughout the downstream process.

Downstream demands

After upstream drilling and transport, crude oil must be processed in a refinery. Efficient processing of several hundred thousand barrels of crude oil a day – essentially a non-stop operation – demands filtration solutions that perform reliably, even under extreme conditions. Parker domnick hunter meets these needs with filtration systems that get the job done with minimal maintenance and downtime.



Final product filtration process

Final product filtration occurs after processing and refining, fuels and fluids are transferred through pipelines and storage systems for delivery. Through this network of fluid storage and transfer, water, dirt and other forms of contamination get into the system that need to be removed. High quality microfiltration and water separation systems help ensure fluids are free of contaminants and meet customer specifications.

Filtration in refineries

Filtration and coalescers are in place upstream and downstream of storage tanks and load out racks containing blended gasoline, diesel fuel, kerosene, jet fuel and fuel oil.

Filtration and coalescer products are designed to:

- Protect processing equipment
- Lower maintenance costs
- Minimize product impurities
- Remove haze caused by water



Committed to process optimization

Parker domnick hunter recognizes that due to the hazards associated with maintenance in petroleum production facilities along with high disposal costs, minimizing both change out frequency and process downtime are of utmost importance. That's why we optimize filtration systems to ensure the total cost of ownership for contaminant control is balanced, without compromising process efficiency.

Global support with local perspective

Wherever you are in the world and whatever the process requirements, Parker domnick hunter's dedicated support team is there to help you get the most out of your filtration systems. We have a presence in all of the major petroleum processing regions offering local and technical support for refinery applications.

PROCESS APPLICATIONS

- Jet Fuel
- Gasoline solvents
- Kerosene
- Diesel
- Gasoline
- Naphtha
- Heating oils
- Heavy fuel oils
- Amine

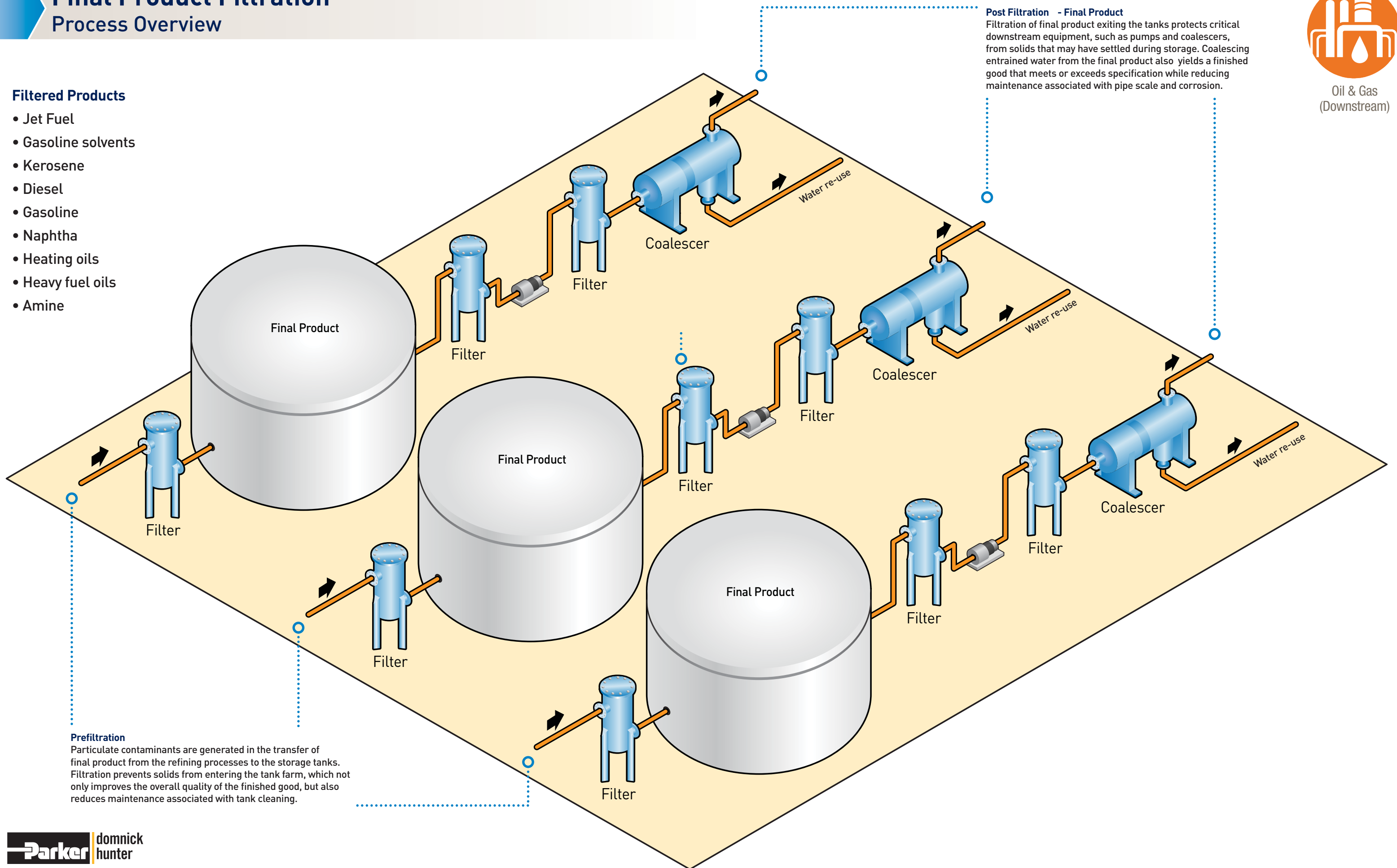
Final Product Filtration Process Overview



Oil & Gas
(Downstream)

Filtered Products

- Jet Fuel
- Gasoline solvents
- Kerosene
- Diesel
- Gasoline
- Naphtha
- Heating oils
- Heavy fuel oils
- Amine



Post Filtration - Final Product
Filtration of final product exiting the tanks protects critical downstream equipment, such as pumps and coalescers, from solids that may have settled during storage. Coalescing entrained water from the final product also yields a finished good that meets or exceeds specification while reducing maintenance associated with pipe scale and corrosion.

Prefiltration
Particulate contaminants are generated in the transfer of final product from the refining processes to the storage tanks. Filtration prevents solids from entering the tank farm, which not only improves the overall quality of the finished good, but also reduces maintenance associated with tank cleaning.

Filter Products for Final Production

PLEATED



Poly-Mate & Poly-Mate Plus

A cartridge offering a unique combination of polypropylene melt blown and spun-bonded media with high surface area and efficiency.



Fulflo 336

Cellulosic & Polypropylene pleated cartridge construction improves filtration efficiency, dirt holding capacity and flow rates.



Flo-Pac & Flo-Pac +

Pleated premium grade, phenolic impregnated cellulosic filter media provides long service life, high flow rate and low pressure drop.



Fulflo 1401

Absolute rated cartridge available in cellulosic or polypropylene media designed to offer maximized surface area which retrofits compatible housings using 1401 style cartridges.



Glass-Mate

Microfiber glass cartridge offering better temperature resistance than standard polypropylene cartridges and absolute rated efficiency for 0.45 - 40 µm.



Large Diameter

MaxGuard

Cellulosic / Polypropylene / Nomex high capacity cartridge product line provides a cost effective alternative to bag media or standard 2-½ inch cartridges for high flow applications.



Large Diameter

ParMax & ParMax Select

Large diameter, high capacity cartridges with polypropylene pleated depth and microfiber glass media. The unique layered construction provides excellent retention across a range of flux rates.



DEPTH MEDIA



Melt blown

MegaBond Nominal

High purity melt blown filter cartridges featuring a graded density matrix of uniform polypropylene fibers for consistent filtration. No fiber finish or surfactants are present to generate extractables leading to foaming or other undesirable effects.



Stringwound

Honeycomb

Offer superior quality for effective particulate removal from 0.5 to 150 µm in a wide variety of materials for process compatibility.

LIQUID/LIQUID COALESCERS



Fulflo® LC Coalescers

High performance microfiberglass media designed to remove dispersed and free water from hydrocarbons.

FILTER VESSELS



Fulflo® cartridge filter vessels

Standard and custom 304 or 316 SS single and multi-cartridge filter vessels

- GMP Industrial design with coded options (ASME, CRN, PED-CE)

ABSORPTION CARTRIDGES



Fulflo® TruBind™ 300 Filter Cartridge

Effective & economical hydrocarbon removal with enhanced polymeric absorbent cartridges to reduce trace contamination in aqueous fluids.



Twin Filter OILCLOG

Absorption cartridges effective in various water treatment applications with high efficiency removal of free and dissolved hydrocarbons (TPH) and emulsified oils from water.

Worldwide Filtration Manufacturing Locations

North America

Compressed Air Treatment Filtration & Separation/Balston

Haverhill, MA
978 858 0505
www.parker.com/balston

Finite Airtek Filtration Airtek/donnick hunter/Zander

Lancaster, NY
716 686 6400
www.parker.com/faf

Finite Airtek Filtration/Finite

Oxford, MI
248 628 6400
www.parker.com/finitefilter

Engine Filtration & Water Purification Racor

Modesto, CA
209 521 7860
www.parker.com/racor

Holly Springs, MS
662 252 2656
www.parker.com/racor

Beaufort, SC
843 846 3200
www.parker.com/racor

Village Marine, Sea Recovery, Horizon Reverse Osmosis

Carson, CA
310 637 3400
www.parker.com/watermakers

Hydraulic Filtration Hydraulic Filter

Metamora, OH
419 644 4311
www.parker.com/hydraulicfilter

Laval, QC Canada
450 629 9594
www.parkerfarr.com

Process Filtration donnick hunter Process Filtration

Oxnard, CA
805 604 3400
www.parker.com/processfiltration

Madison, WI
608 824 0500
www.scilog.com

Phoenixville, PA
610 933 1600
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Aerospace Filtration

Velcon Filtration
Colorado Springs, CO
719 531 5855
www.velcon.com

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