



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



## Fuel Dispensing and Transfer Filtration

For Clean Diesel Applications



ENGINEERING **YOUR** SUCCESS.

# Why Pre-filtration?

Because of the difficulties of maintaining a clean supply of diesel at all times, more consideration should be applied to upstream sources of contamination as well as at the engine. Filtering recirculation systems can be applied to storage and onboard systems, along with high efficiency filters at the dispensing pump. Careful monitoring of fuel quality and filter performance is needed to protect sensitive diesel engine injection systems.

For example, the fuel used on a highway construction project may have travelled the following route:  
**Refinery - piped to storage - tanker to distribution center - tanker to local retailer - tanker to on-site storage.**

## Dispensing Filtration: FBO Series

Parker Racor's FBO assemblies are specifically designed to meet filtration requirements of today's high-pressure common-rail diesel injection systems.

Common applications include: mobile refuelers, refueling cabinets, fuel dispensing pumps, large diesel engines, bulk fuel handling, and fuel transfer.

### Filter Options

FBO filter systems have three filter options to meet various requirements: Particulate filter, coalescer/separator filter, or water absorber filter. For fuel dispensing applications, a coalescer/separator filter is recommended.

### Product Features

- Die-Cast Aluminum Head
- Steel Bowl Assembly
- Powder Coated Components
- Locking Ring Collar
- 1.5" NPT Inlet and Outlet Ports
- Maximum Pressure: 150 PSI (10 bar) and Maximum Temperature 160°F (71°C)
- Lockable Manual Drain Valve: 1/2" NPT (part# 73225-.5)
- Grounding Lug
- Manual Vent Valve

### Technical Information

| Specifications     | Maximum Flow Rates | Clean    | Change  |
|--------------------|--------------------|----------|---------|
| FBO-10             | Diesel             | Delta P  | Delta P |
| Particulate Filter | 25 GPM (94.6 LPM)  | 2.5 PSID | 15 PSID |
| Water Separator    | 20 GPM (75.7 LPM)  | 2.5 PSID | 15 PSID |
| Water Absorber     | 20 GPM (75.7 LPM)  | 2.5 PSID | 30 PSID |
| FBO-14             | Diesel             | Delta P  | Delta P |
| Particulate Filter | 30 GPM (113.6 LPM) | 2.5 PSID | 15 PSID |
| Water Separator    | 25 GPM (94.6 LPM)  | 2.5 PSID | 15 PSID |
| Water Absorber     | 25 GPM (94.6 LPM)  | 2.5 PSID | 30 PSID |

# How to Order

Guide to help you specify the right FBO system with the accessories you need.

## F B O - 1 0 - D P

Flow Rates

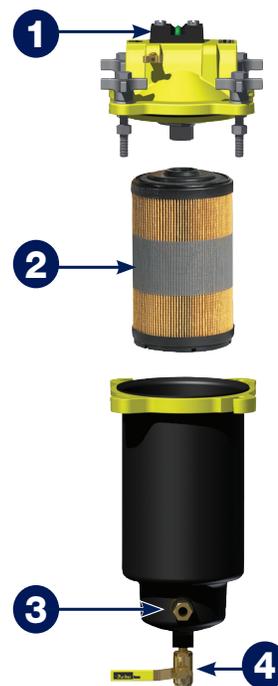
10 = 5-25 GPM (19-95 LPM)

14 = 10-30 GPM (38-114 LPM)

DP = Differential Gauge

DPL = Delta-P Gauge with  
Liquid Sight Glass

MA = Marine Assembly



**\*\*Popular Option**

|                     | 1             | 2                            | 3           | 4           |
|---------------------|---------------|------------------------------|-------------|-------------|
|                     | Delta-P Gauge | Filter                       | Sight Glass | Drain Valve |
| FBO-10              |               | Order Separately (see below) |             | •           |
| FBO-10-DP           | •             | Order Separately (see below) |             | •           |
| <b>FBO-10-DPL**</b> | •             | Order Separately (see below) | •           | •           |
| FBO-14              |               | Order Separately (see below) |             | •           |
| FBO-14-DP           | •             | Order Separately (see below) |             | •           |
| <b>FBO-14-DPL**</b> | •             | Order Separately (see below) | •           | •           |
| FBO-10-25M          | •             | FBO 60332                    | •           | •           |
| FBO-14-25M          | •             | FBO 60341                    | •           | •           |

# Replacement Filters

| FBO                       | Micron Rating | Coalescer/ Separator | Particulate | Water Absorber |
|---------------------------|---------------|----------------------|-------------|----------------|
| FBO-10<br>(6 X 10 Filter) | 1             | FBO 60327            | FBO 60330   | FBO 60333      |
|                           | 5             | FBO 60328            | FBO 60331   | FBO 60334      |
|                           | 10            | FBO 60353            | FBO 60354   | FBO 60355      |
|                           | 25            | FBO 60329            | FBO 60332   | FBO 60335      |
| FBO-14<br>(6 X 14 Filter) | 1             | FBO 60336            | FBO 60339   | FBO 60342      |
|                           | 5             | FBO 60337            | FBO 60340   | FBO 60343      |
|                           | 10            | FBO 60356            | FBO 60357   | FBO 60358      |
|                           | 25            | FBO 60338            | FBO 60341   | FBO 60344      |

## Coalescer/Separator

Coalescer/separator filters are a two stage element that removes water and contaminants from diesel fuel streams and are the most popular filters.

## Particulate Filter

Particulate filters remove contaminants down to one micron. Particulate filters can also be used upstream, before a water separator filter, to extend filter life.

## Water Absorber

Water absorber filters absorb water and filter out contaminants from diesel fuel.

# Worldwide Filtration Manufacturing Locations

## North America

### Compressed Air Treatment

#### Gas Separation & Filtration Division

Airtek/Finite/dornick hunter/Zander  
Lancaster, NY  
716 686 6400  
[www.parker.com/faf](http://www.parker.com/faf)

Balston  
Haverhill, MA  
978 858 0505  
[www.parker.com/balston](http://www.parker.com/balston)

### Engine Filtration

#### Racor

Modesto, CA  
209 521 7860  
[www.parker.com/racor](http://www.parker.com/racor)

Holly Springs, MS  
662 252 2656  
[www.parker.com/racor](http://www.parker.com/racor)

### Hydraulic Filtration

#### Hydraulic & Fuel Filtration

Metamora, OH  
419 644 4311  
[www.parker.com/hydraulicfilter](http://www.parker.com/hydraulicfilter)

Laval, QC Canada  
450 629 9594  
[www.parkerfarr.com](http://www.parkerfarr.com)

Velcon  
Colorado Springs, CO  
719 531 5855  
[www.velcon.com](http://www.velcon.com)

### Process Filtration

#### dornick hunter Process Filtration SciLog

Oxnard, CA  
805 604 3400  
[www.parker.com/processfiltration](http://www.parker.com/processfiltration)

### Water Purification

#### Village Marine, Sea Recovery, Horizon Reverse Osmosis

Carson, CA  
310 637 3400  
[www.parker.com/watermakers](http://www.parker.com/watermakers)

## Europe

### Compressed Air Treatment

#### dornick hunter Filtration & Separation

Gateshead, England  
+44 (0) 191 402 9000  
[www.parker.com/dhfn](http://www.parker.com/dhfn)

#### Parker Gas Separations

Etten-Leur, Netherlands  
+31 76 508 5300  
[www.parker.com/dhfn](http://www.parker.com/dhfn)

#### Hiross Zander

Essen, Germany  
+49 2054 9340  
[www.parker.com/hzfd](http://www.parker.com/hzfd)

Padova, Italy  
+39 049 9712 111  
[www.parker.com/hzfd](http://www.parker.com/hzfd)

### Engine Filtration & Water Purification

#### Racor

Dewsbury, England  
+44 (0) 1924 487 000  
[www.parker.com/rfd](http://www.parker.com/rfd)

#### Racor Research & Development

Stuttgart, Germany  
+49 (0)711 7071 290-10

### Hydraulic Filtration

#### Hydraulic Filter

Arnhem, Holland  
+31 26 3760376  
[www.parker.com/hfde](http://www.parker.com/hfde)

Urkala, Finland  
+358 20 753 2500

#### Condition Monitoring Parker Kittiwake

West Sussex, England  
+44 (0) 1903 731 470  
[www.kittiwake.com](http://www.kittiwake.com)

### Process Filtration

#### dornick hunter Process Filtration Parker Twin Filter BV

Birtley, England  
+44 (0) 191 410 5121  
[www.parker.com/processfiltration](http://www.parker.com/processfiltration)

## Asia Pacific

### Australia

Castle Hill, Australia  
+61 2 9634 7777  
[www.parker.com/australia](http://www.parker.com/australia)

### China

Shanghai, China  
+86 21 5031 2525  
[www.parker.com/china](http://www.parker.com/china)

### India

Chennai, India  
+91 22 4391 0700  
[www.parker.com/india](http://www.parker.com/india)

### Parker Fowler

Bangalore, India  
+91 80 2783 6794  
[www.johnfowlerindia.com](http://www.johnfowlerindia.com)

### Japan

Tokyo, Japan  
+81 45 870 1522  
[www.parker.com/japan](http://www.parker.com/japan)

### Korea

Hwaseon-City  
+82 31 359 0782  
[www.parker.com/korea](http://www.parker.com/korea)

### Singapore

Jurong Town, Singapore  
+65 6887 6300  
[www.parker.com/singapore](http://www.parker.com/singapore)

### Thailand

Bangkok, Thailand  
+66 2186 7000  
[www.parker.com/thailand](http://www.parker.com/thailand)

## Latin America

### Parker Comercio Ltda. Filtration Division

Sao Paulo, Brazil  
+55 12 4009 3500  
[www.parker.com/br](http://www.parker.com/br)

### Pan American Division

Miami, FL  
305 470 8800  
[www.parker.com/panam](http://www.parker.com/panam)

## Africa

Aeroporto Kempton Park, South Africa  
+27 11 9610700  
[www.parker.com/africa](http://www.parker.com/africa)

