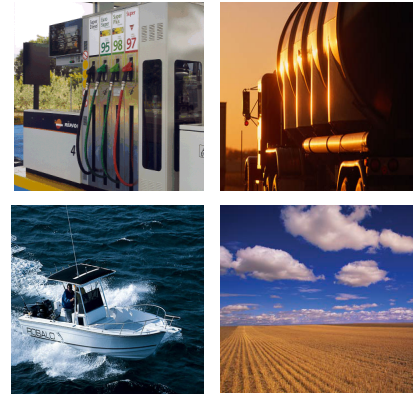


# RVFS SS Series

## CE Marked Stainless Steel Constructed Vessel



The RVFS Series filter vessels are designed to be used for diesel fuel dispensing, fuel transfer, and large engine applications. Their prime function is to remove water and dirt to reduce contamination levels, prolong engine life and keep engine applications running.

The RVFS SS CE Marked models have been introduced to work in modern European fuel environments with mixed bio diesel blends. The revised series is now completely fabricated in 304 stainless steel removing the need for internal or external painting, whilst improving fuel compatibility, cleanliness and durability. These stainless steel vessels will be available only in the CE marked construction code with a maximum operating pressure of 10 barg, (ASME coded vessels in steel are available on request for non-European applications).

The RVFS is used primarily as a filter/water separator, where two elements are installed into the vessel- 1x Coalescer element and 1x separator element.

This set up will remove emulsified free water and solids from diesel fuel, fuel oils, and other hydrocarbon streams. Water is collected in an internal sump area between the stage one and stage two elements. However the RVFS Series can also be used with a range of alternative filter elements including particulate filter elements, water absorbing elements and even clay bags.



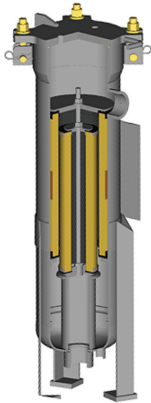
## Product Features

- 10 barg CE Marked and Certified Design
- 304 Stainless Steel construction
- Inlet and Outlet 2" BSP with other options available on request
- Exterior: Bead blasted stainless steel finish
- Leg Mounts included
- Optional Accessories Include: pressure relief valve, automatic air eliminator, drain valve, water-in-fuel sight glass, and differential pressure gauge.

# Ordering Information

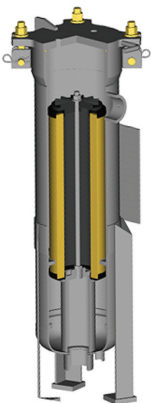
## Step 1: Select the element type required Step 2: Select the size of vessel

RVFS Element choices are Coalescer, Prefilter or Monitor styles.



### Coalescer / Separator

Coalescer and separator mounted in the RVFS housing. Fluid/fuel is passed from the outside of the coalescer to the inside. The coalescer element provides primary filtration of the fuel as well as coalescing free water from it. The clean fuel passes through the separator barrier and into the outlet of the housing. The coalesced water droplets are repelled by the hydrophobic barrier and are collected in the sump of the housing. The sump should be drained routinely.

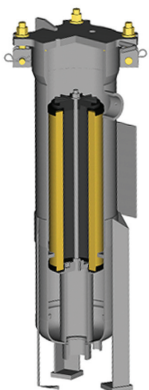


### Prefilter (HFP) Element Installation

Mounting shown – Parker’s cellulose HFP microfilter series. These elements offer 95% filtration efficiency of fluids and are available in micron ratings of 1, 2, 5, 10, 25 & 40.

When ordering a RVFS for HFP installation the kit number 72137 is required.

The RVFS-1, 2 & 3 housing series is compatible with all 6-7" OD, 3.5" ID in multiple lengths of 14 inches.



### Monitor (FW) Element Installation

Mounting shown – Parker’s combination water absorbing/ filtration FW filter series. These elements will absorb free water from fuels to less than 15 ppm and offer 95% filtration efficiency and are available in micron ratings of 1, 5, 10 & 25. This product can also be used to absorb free water and filter industrial oils.

When ordering a RVFS for FW installation the kit number 72137 is required. The RVFS-1, 2 & 3 housing series is compatible with all 6-7" OD, 3.5" ID elements in multiple lengths of 14 inches.

Select the size of vessel required for the application flow rate, this will be determined by element type.

The sizing’s are based on standard diesel applications, however if coalescer/separator elements are to be used in Bio diesel blends which exceed 20% Biodiesel, then Racor recommends that the applications are over-sized by 50%.



Type	Coalescer	Prefilter	Monitor
RVFS-1	95 LPM	250 LPM	110 LPM
RVFS-2	190 LPM	500 LPM	220 LPM
RVFS-3	285 LPM	1000 LPM	330 LPM

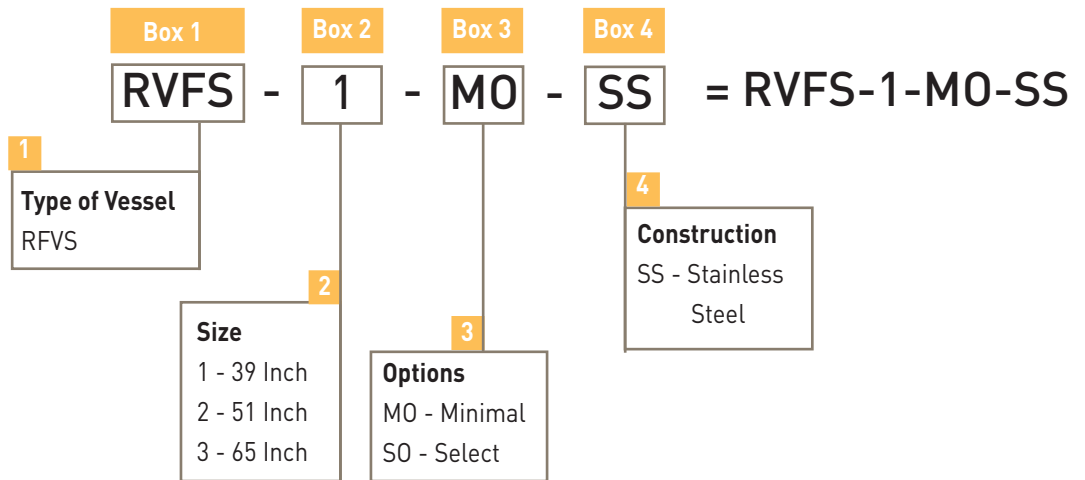
## Step 3: Select Options

Use the table below to select the pre-assembled accessories you require

	MO	SO
	Minimal Options	Select Options
Diff Pressure Gauge	X	X
Auto Air Eliminator		
Pressure Relief Valve	X	
1 x Water Sight Glass		
2 x Water Float sight Glasses	X	
Manual Air Vent	X	
Manual Water Drain	X	
Sample Probes		
Auto Water Drain		
	Note: The Minimal Specification of equipment. Other options Can be added but fitted by customer and quoted as separate line items	Note: Basic vessel. All ports plugged and customer selects and fits options. All Options quoted a separate line items .

# Ordering Information Continued...

## Step 4: Select the vessel part number



## Step 5: Order Elements separately

**HOCP Coalescer Cartridge - Requires Matching HSP filter or optional HSS, HST cleanable separator filters**

Vessel Series	1 micron	5 micron	10 micron	25 micron
RVFS-1	HOCP-15801	HOCP-15805	HOCP-15810	HOCP-15825
RVFS-2	HOCP-30801	HOCP-30805	HOCP-30810	HOCP-30825
RVFS-3	HOCP-44801	HOCP-44805	HOCP-44810	HOCP-44825

**HSP Separator Cartridge - Pleated Paper**

RVFS-1	HSP-15401	HSP-15405	HSP-15410	HSP-15425
RVFS-2	HSP-30401	HSP-30405	HSP-30410	HSP-30425
RVFS-3	HSP-44401	HSP-44405	HSP-44410	HSP-44425

Notes: Synthetic (**SS**) and Teflon® (**ST**) water separators may be used in place of industrial paper (**SP**) water separators where cleaning and reusing of water separators is desired.

For RVFS-1, 2, and 3, customer must order one **HOCP** and one **HSP** filter. A fuel filter/water separator consists of one coalescer and one separator filter in the same housing.

**HFP Silicon Treated - Pleated**

Vessel Series	1 micron	5 micron	10 micron	25 micron
RVFS-1	HFP-14601	HFP-14605	HFP-14610	HFP-14625
RVFS-2	HFP-28601	HFP-28605	HFP-28610	HFP-28625
RVFS-3	HFP-43601	HFP-43605	HFP-43610	HFP-43625

**HFS Synthetic Fiber**

RVFS-1	HFS-14601	HFS-14605	HFS-14610	HFS-14625
RVFS-2	HFS-28601	HFS-28605	HFS-28610	HFS-28625
RVFS-3	HFS-43601	HFS-43605	HFS-43610	HFS-43625

**HOCP Coalescer Cartridge - Requires Matching HSP filter or optional HSS, HST cleanable separator filters**

**HSS Synthetic Separator - Optional**

RVFS-1	HSS-15401
RVFS-2	HSS-30401
RVFS-3	HSS-44401

**HST Teflon Treated Separator - Optional**

RVFS-1	HST-15401
RVFS-2	HST-30401
RVFS-3	HST-44401

**HFW Water Absorbing Separator**

Vessel Series	5 micron	25 micron
RVFS-1	HFW-14605	HFW-14625
RVFS-2	HFW-14605 (x2)*	HFW-14625 (x2)*
RVFS-3	HFW-14605 (x3)*	HFW-14625 (x3)*

\* Multiple cartridges required

**Note:** All vessels come equipped with Viton® o-rings. Compatible with biodiesel mixtures.

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