

# Diesel Filtration Skid

## DFS™ Series - System for Removal of Particulates and Protection from Water Contaminants

Providing high quality fuel to the modern high pressure common rail fuel injection systems is imperative to avoid costly downtime and engine repair.

The Parker Diesel Filtration Skid (DFS) plays an important role in a comprehensive fuel contaminant control program as it provides fuel conditioning to assure the consistent removal of abrasive particles and damaging water.

The DFS offers a complete fuel filtration solution which incorporates both particulate and water contaminant removal technologies mounted on a skid base that can be quickly installed and put into operation.

Key components of the DFS includes a particulate housing (DVF) and a coalescing (DV) housing which have proven to withstand years of service in the most challenging environments. Parker DFO particulate filters and DI and DSO coalescer and separator elements are used for conditioning contaminated fuels to meet the most stringent ISO 4406 and ASTM D975 standards for emulsified and free water as well as abrasive particulate. All filtration elements are available with threaded base endcap option for quick filter removal and ease of installation.



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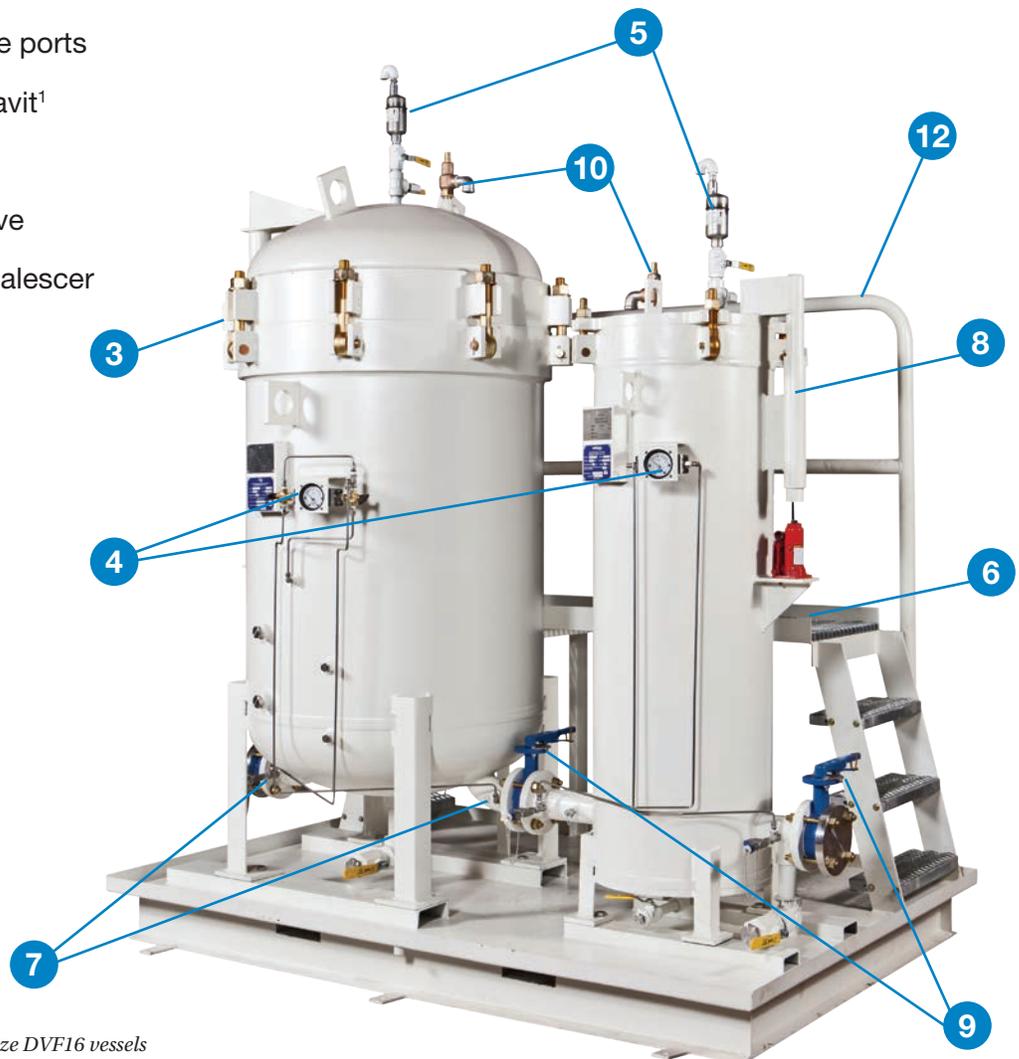
## Features

### Standard Design Features

- 1 ASME code epoxy painted carbon steel vessels (stamp on request)
- 2 Epoxy-coated interior
- 3 Swing bolt closure with nitrile cover seals
- 4 Independent differential pressure gauges
- 5 Air eliminators
- 6 Walkway
- 7 Inlet/Outlet sample ports
- 8 Hydraulic lifting davit<sup>1</sup>
- 9 Isolation valves
- 10 Pressure relief valve
- 11 Threaded base coalescer
- 12 Support hand rail
- 13 Water sight glass

### Options

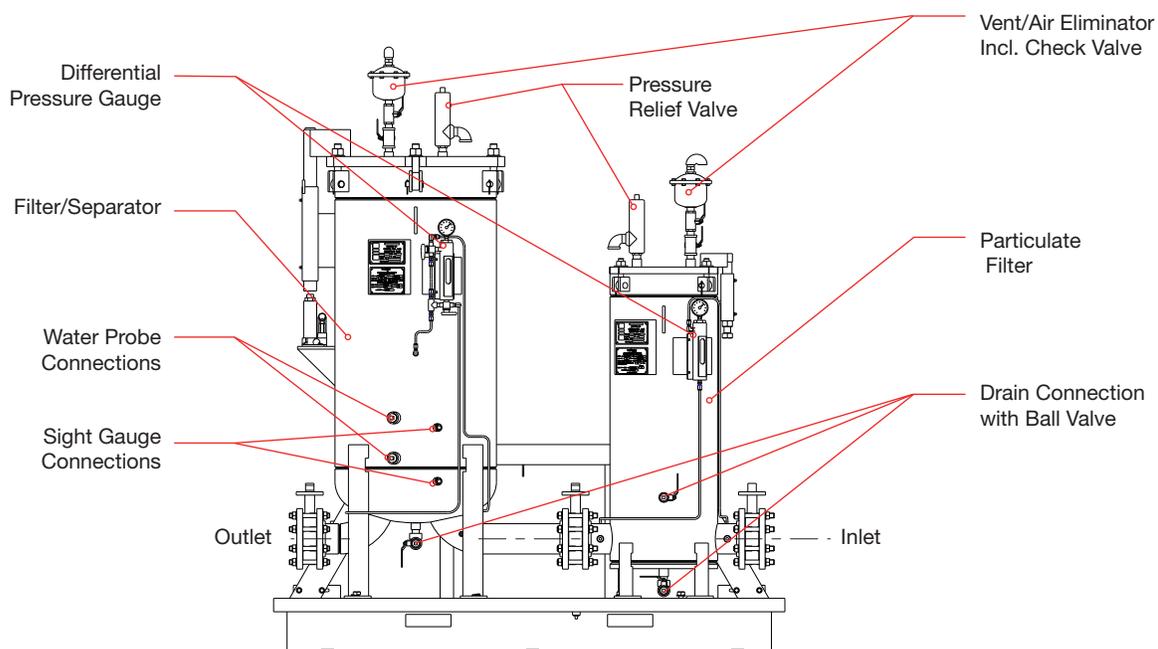
- 14 Electronic water sensing
- 15 Fuel Condition Monitoring



*1. DFS1 and DFS2 system utilize DVF16 vessels that have flat covers. DVF16 Series vessels do not have hydraulic lift jacks.*

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## Features & Specifications



### Specifications

Parker recommends use of threaded base endcaps for ease of installation and to minimize components.

Series	Flow Rate*		Filter Housing	Elements		Coalescer Housing	Coalescers		Separators		Approximate Footprint mm (in)	Approx. DryWeight (w/o Elements, Tie Rods, Spider Plate) lb (kg)	I/O Flange in (mm)
	Maximum gpm (lpm)	Target gpm (lpm)		Qty of Elements	Element Part Number		Qty of Elements	Element Part Number	Qty of Elements	Element Part Number			
DFS1	330 (1250)	200 (750)	DVF1629	4	DFO-629	DV2233	4	DI-633	3	DSO-629	70 x 60 (1778 x 1524)	1985 (900)	4 (102)
DFS2	570 (2160)	345 (1300)	DVF1644	4	DFO-644	DV2838	6	DI-638	5	DSO-629	80 x 60 (2032 x 1524)	2250 (1021)	4 (102)
DFS3	1045 (3955)	630 (2380)	DVF2044	6	DFO-644	DV3638	11	DI-638	9	DSO-629	110 x 80 (2794 x 2032)	3400 (1542)	6 (152)

Dimensions shown are for estimating purposes only. For exact dimensional detail, obtain certified copy of vessel drawing.  
 \*Flow rates provided are for illustrative purposes. Actual flow rates may vary based on field conditions.

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### How to Order

Select the desired symbol (in the correct position) to construct a model code. Example:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
DFS	1	PCS	X	B	DP	A4	1

BOX 1: Filter Series	
Symbol	Description
DFS	Diesel Fuel Skid System

BOX 2: Size <sup>1,2</sup>	
Symbol	Description
1	Max 330 gpm (1250 lpm)
2	Max 570 gpm (2160 lpm)
3	Max 1045 gpm (3955 lpm)

BOX 3: Particulate Media Code	
Symbol	Description
PCS	Particulate/Coalescer/Separator

BOX 4: Coalescer Media Code	
Symbol	Description
X	No Element Installed <sup>3</sup>

\*Note: Always choose equal to or greater than particulate media code

BOX 5: Seals	
Symbol	Description
B	Nitrile
V	Fluorocarbon

BOX 6: Indicator	
Symbol	Description
DP	Differential Pressure

BOX 7: Ports	
Symbol	Description
A4	4" 150# RF ANSI Flange
A6	6" 150# RF ANSI Flange

BOX 8: Options <sup>4</sup>	
Symbol	Description
1	None
EWS	Electronic Water Sensing
IPM	Integrated Particulate Monitor (IPM-210)

*Please note the bolded options reflect standard options with reduced lead-time.*

#### Notes:

- If choosing "1" or "2" in Box 2, select "B4" in Box 7.
- If choosing "3" in Box 2, select "B6" in Box 7.
- Use the chosen codes from Box 2 and Box 3, select the element numbers that match the desired filtration rating and the desired separator material. **Example:** For model DFS1**PCS**XBDPA61 with 10 micron particulate and coalescer, cellulose separator, DFO-629PLF10TB, DI-633D10TB and DSO-629PLF3 would be required.
- Select one or more options, as desired.

### Replacement Elements

Type / Media		DFS1		DFS2		DFS3	
<b>Particulate</b>							
2 micron		DFO-629PLF2TB		DFO-644PLF2TB		DFO-644PLF2TB	
5 micron		DFO-629PLF5TB		DFO-644PLF5TB		DFO-644PLF5TB	
10 micron		DFO-629PLF10TB		DFO-644PLF10TB		DFO-644PLF10TB	
25 micron		DFO-629PLF25TB		DFO-644PLF25TB		DFO-644PLF25TB	
Coalescer	Separator	DFS1		DFS2		DFS3	
5 micron	Cellulose (PL) Screen (C)	DI-633D5TB	DSO-629PLF3	DI-638D5TB	DSO-629PLF3	DI-638D5TB	DSO-629PLF3
10 micron		DI-633D10TB		DI-638D10TB		DI-638D10TB	
25 micron		DI-633D25TB		DI-638D25TB		DI-638D25TB	
		DSO-629C		DSO-629C		DSO-629C	

### Accessories

Description	Part Number		
	DFS1	DFS2	DFS3
Differential Pressure Gauge	120-Q	120-Q	120-Q
Coalescer/Separator Cover Gasket	G-2042	G-0769	G-0511A
Particulate Cover Gasket	G-2033	G-2033	G-2027