

DFS - DIESEL FILTRATION SKID

Combining Particulate Filtration with World-Class Water Coalescing

Benefits

- Consistent supply of clean/dry fuel
- Reduce Engine Downtime
- Vehicle Warranty Conformance
- Reliable Engine Performance
- Fuel System Peace-of-Mind

Description

Providing high quality fuel to the modern high pressure common rail fuel injection systems is imperative to avoid costly downtime to engine repair. Velcon's Diesel Filtration Skids (DFS) provides fuel conditioning to assure the consistent removal of abrasive particulate and damaging water while transferring or dispensing within the fuel system.

The DFS incorporates the best housings, filters and coalescers technologies that Velcon has developed over the past 60 years. The DFS uses filter (VF) and coalescing (V) housings which have proven to withstand years of service in the most challenging environments. We have combined the housings with Velcon's outstanding DFO filtration products and world-class DI and DSO coalescing and separation products. The combined components work to condition 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 cartridges are available with a threaded base option for quick filter removal and ease of installation.

Standard Features

- ASME Code Epoxy Painted Carbon Steel Vessels
- Swing Bolt Housing Closures
- Independent Differential Pressure Gauges
- Air Eliminators
- Walkway
- Inlet/Outlet Sample Ports
- Hydraulic or Mechanical Housing Lid Lifting
- Isolation Valves
- Pressure Relief Valve

Optional Features

- Threaded Base Adapters
- Support Hand Rails
- Electronic Water Sensing
- Water Slug Valve
- Automatic Vessel Drain
- Water Sight Glass

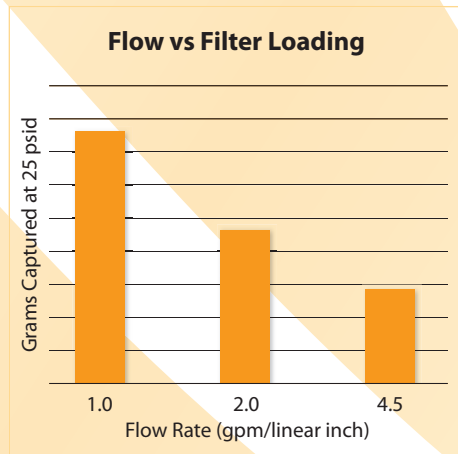


System Sizing

Velcon is a recognized leader in the development and application of particle filters, water coalescing, and water absorption technologies. Our 60 years of experience has proven that the successful implementation of coalescing systems is dependent on the initial system sizing and configuration. Many companies commonly under-size filtration systems while increasing filtration flow rates in order to minimize up-front costs. Sizing a filtration system solely on flow while failing to account for incoming fluid contamination levels results in reduced filter life and high operating costs. Velcon's extensive bulk fuel handling experience and our state-of-the-art fuel testing laboratory have quantitatively proven that increased system/housing

will allow for lower flow rates per filter while dramatically extending the service life of the elements. **Systems "sized for life" commonly see a full repayment of the additional system cost through operating savings.** Using Velcon's proprietary software, **SizeRight™**, for system sizing, we can help you select the right housing and elements for your application based on your ISO 4406 cleanliness requirements and specified change-out interval while also providing you estimated yearly operating cost.

For additional information on this powerful tool, please contact Velcon or our local representative to have your filtration system **SizeRight™** for your specific needs.



ISO Code	lbs/yr (kg/yr)
24/22/20	1609 (730)
22/20/18	564 (256)
17/15/13	20 (9.1)
12/9/7	4 (1.8)

Notes:
 1. Values are based on usage of +3.5M Liter per year
 2. Field results may vary

DFS Part Number & Dimensions

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

Series	Flow Rate		Filter Housing	Filters		Coalescer Housing	Coalescers		Separators		Approx. Footprint mm (in)	Input/Output Flange mm (in)
	Range lpm (gpm)	Target lpm (gpm)		Qty.	Length mm (in)		Qty.	Length mm (in)	Qty.	Length mm (in)		
DFS1	379 – 1703 (100 – 450)	757 (200)	VF1629	4	737 (29)	V2233	4	838 (33)	3	838 (33)	1778 x 1524 (70 x 60)	102 (4)
DFS2	757 – 2839 (200 – 750)	1325 (350)	VF1644	4	1118 (44)	V2838	6	965 (38)	5	838 (33)	2032 x 1524 (80 x 60)	102 (4)
DFS3	1325 – 4542 (350 – 1200)	2271 (600)	VF2044	8	1118 (44)	V3638	11	965 (38)	9	838 (33)	2794 x 2032 (110 x 80)	152 (6)

CLEANDiesel™



Products are sold and serviced by a worldwide network of representatives. To order, contact Velcon corporate headquarters or a local Velcon representative:

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