



# Fuel Storage Tank Filtration

The protection of your costly components starts here

## Storage tank filtration is critical to avoid costly components damage

The fuel supply, which includes the processing, transportation and long-term storage of diesel fuel is a critical stage that can lead to contamination and degradation of the fuel. Studies show that today's fuel is not clean enough and only 43% (!) of all fuel distributed worldwide meets the particle concentration of 18/16/13 which should be achieved at the storage tank. Failure to meet this requirement can lead to severe fuel system component damage because the on-engine fuel filtration will not be able to accomplish the target fuel cleanliness of 12/9/6 which equates to less than 4,000 particles of 4µm © and greater.



## Problem zone storage tank

Storage tanks can harbor thick, viscous fuel components which can pose expensive problems. Customers utilizing storage tanks -regardless whether in an On-Highway or Off-Highway environment- should ensure that the diesel fuel being dispensed from that storage tank into a vehicle, is both water-free and does not contain any contaminants (contamination being dirt, water and asphaltines). With insufficient filtration at the storage tank a combination of sludge and slime can enter the fuel pick up line, accumulations on the fuel filters results in plugged filters and reduced performance. Even more severely, long-term contamination of fuel corrodes fuel injectors and other components within sensitive fuel injection systems.

## Your Fleetguard Product Solution

To minimize fuel contamination in a storage tank, Fleetguard fuel storage tank filtration is the effective and inexpensive way to meet the ISO4406 standard for fuel cleanliness and to protect costly fuel components, minimize operational cost and maximize equipment uptime. A Fleetguard cellulose fuel filter in conjunction with a filter head - integrated in your pump filling system is the fast lane to a good fuel quality in your storage tank.

## Fuel Filters/ FWS

Part No.	Type	Micron rating	Flow Rate l/ min	Thread	OD mm	Length mm
FF5601	Spin-On	10	16	1-1/2 16 UNF	129	272
FF5618	Spin-On	25	16	1-1/2 16 UNF	129	272
FF5474	Spin-On	5	30	1-1/2 16 UNF	129	272
FS1284	Spin-On	10	56	1-12 UNF	94	136
FS19745	Spin-On	10	67	1-12 UNF	94	220
FS19748	Spin-On	30	67	1-12 UNF	94	220
FS19746	Spin-On	10	70	1-3/8-12 UNF	94	220
FS19749	Spin-On	30	70	1-3/8-12 UNF	94	220
FS19742	Spin-On	10	95	1-1/2-16 UNF	94	136
FS19744	Spin-On	30	95	1-1/2-16 UNF	94	136
FS1286	Cartridge	30	110	N/A	122	230
FS1283	Spin-On	10	113	1-1/2 16 UNF	128	279
FF5450	Spin-On	10	150	1-1/2 16 UNF	128	279
FS1285	Spin-On	30	150	1-1/2 16 UNF	128	279
FF5897	Spin-On	4	246	1 3/4 12 UNF	122	365



All Filters/ FWS are designed for use with ULSD, Diesel #2, Kerosene and biodiesel blends only. Do not use these filters with aviation fuels, methanol and methanol blended fuels, ethanol and ethanol blended fuels, or gasoline fuels.

## Standard Fuel Filter Heads

Part No.	Port Size	Thread Size	Flow Rate l/min.
HH6943	3/4" NPT	1" – 12 UNF	up to 67l/min*
HH6951	1 5/16" NPT	1 1/2" – 16 UNF	up to 150l/min*
HH6957	1" NPT	1 1/2" – 16 UNF	up to 150l/min*
HH6962	1 1/4" NPT	1 1/2" – 16 UNF	up to 150l/min*
HH6967	1 1/2" NPT	1 1/2" – 16 UNF	up to 150l/min*
HH6973	1 5/8" NPT	1 1/2" – 16 UNF	up to 150l/min*

\* performance will vary depending upon which filter is used and the constraints of the rest of the system/installation.

## Fuel Filter Heads with integrated Differential Pressure Gauge

DPG closely monitors filter performance and signals when it's time to change the filter

Part Number	Description	Inlet/Outlet Port Size	Element Spud Threads	Flow Rate l/min.
3933191S	Single Head	1-1/4 NPT	1-1/2-16	189
3950365S	Double Head	1-1/4 NPT	1-1/2-16	378

**3929251S** = Special service gasket required when using the above two heads. Please order separately.

## Recommended Configurations

Flow Rate	Port Size	Adapter Size <sup>1</sup>	Filter Head	Filter 30μ	Filter 10μ
max 67l/min	3/4" NPT	3/4" NPT -3/4" BSP	HH6943	FS19748	FS19745
max 95l/min	1" NPT	1" NPT -1" BSP	HH6957	FS1285	FS1283
max 113l/min	1.1/4"NPT	1.1/4"BSP	HH6962	FS1285	FS1283
max 150l/min	1.1/4"NPT	1.1/4"BSP	HH6962	FS1285	FF5450 *
<b>Filter head with differential pressure gauge</b>					
max 113l/min	1.1/4"NPT	1.1/4" NPT -1" BSP	3933191S	FS1285	FS1283
max 150l/min	1.1/4"NPT	1.1/4" NPT -1" BSP	3933191S	FS1285	FF5450 *

<sup>1</sup> to be purchased locally

\* no Hydrosorb Media