

### **Installation Guide**

X900169 3µm High Efficiency Diesel Fuel Filter Kit Suitable for flow rates up to 245lph



Micron Rating: 3um @ 99% efficient Operating Temperature: -40°C to 121°C Operating Pressure: 80 psi / 550 kPa / 5.5 bar

#### Kit contents:

1x P576714 M14 x 1.5 NPT Ports

2x P581681 spin-on filter (one spare)

1x P569758 Drain Bowl

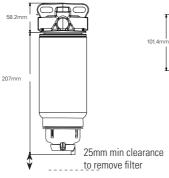
2x P506150 Straight Fitting

#### Installation

We recommend that additional filtration should be considered as the primary filter and installed before the factory filter, which should be retained as originally fitted. It can also be installed as a final filter. Identify a suitable location to mount the filter assembly that:

- Allows access to replace the filter
- Allows access to the twist and drain valve, to drain separated water
- Provides visibility of the clear water collection bowl
- Is located away from heat sources

### Necessary Mounting Dimensions:



- 101.4mm 32.2mm 77.8mm 32.2mm 10.9 10.9 10.9 17.6mm 34.5mm 30.1mm
- The filter head should be securely fixed vertically to a bulkhead or mounting bracket using suitable screws or bolts.
- There is an inlet and outlet port on each side of the head assembly. Note, the flow direction is indicated on the head casting with an arrow. Install the threaded fuel line fittings into the head, as best suits your installation. Use the two blank plugs provided to block the unused inlet and outlet ports. Tighten all fittings firmly with a suitable tool. Do not over tighten! These fittings use an O-Ring seal, no additional sealant is required.
- Run the fuel supply line (from the fuel tank) and connect onto the fuel line fitting in the inlet port of the filter head. Secure with a suitable hose clamp.
- Run the fuel feed line (to the engine) and connect onto the fuel line fitting in the outlet port of the filter head. Secure with a suitable hose clamp.
- Check there are no tight bends or kinks in the fuel lines, and route them away from heat sources and sharp surfaces. Secure fuel lines to prevent excessive movement.

#### Installation Guide



### 1. Lubricate the threads.

Lubricate threads of filter head with clean oil or fuel

Failure to do this could result in thread galling.



# 2. Apply thin film of clean motor oil or fuel to gasket.

Lubricate seal(s) with clean oil. Do not use grease or rubber grease.



# 3. Align threads. Spin filter until gasket contacts.

Spin the new filter on until the top of the gasket first contacts the sealing surface.



### 4. Hand tighten the filter.

Tighten per the guidance of the icons which appear on the

filter element. Do not over-tighten. Ensure the drain valve is firm hand tight.



# 5. Install water collection bowl (if applicable)

Unscrew the Twist&Drain valve from the base of the filter.
Screw the water collection bowl into the base of the filter and tension firm hand tight, then refit the Twist&Drain valve into the base of the bowl and tension firm hand tight.



### . 6. Prime fuel system

As per the manufactures recommendation



# 7. Start engine and check for leaks

Starting may take longer than normal for the first start.



### 8. Stop engine

Stop engine and recheck for leaks



#### 9. Drain water daily

1/4 twist of the Twist&Drain valve. Once any water has

been drained, re-tighten the valve until firm hand tight. A tube may be pushed over the drain spigot to aid collection of drained fluid.





Disconnect WIF sensor if present and reconnect after servicing



Unscrew and remove old filter and gasket



Wipe filter head with clean cloth





Apply thin film of clean motor oil to gasket



Align threads; spin filter on until gasket contact



Follow icons on filter to tighten



manufacturer



Drain water daily

Prime fuel

system per



collection bo gasket if applicable

Replace water collection bowl

Dra water

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