



The filter in this kit is manufactured with water absorbing media designed to filter particles 10um (micron) @ b200, providing you with added protection against particulate and water contamination in your fuel.

To reduce the stress on the tank pipework, we recommend using a mounting bracket to support the filter assembly. Mounting bracket (P506158) is an offset design to allow for either Left or Right hand side mounting, with the bracket leg in either up or down orientation, whichever works best for your installation. The offset allows clearance for the pressure gauge.

Filter Assembly

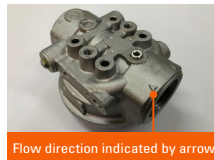
The filter assembly should be installed on the outlet of your fuel storage.

If you are using a fuel delivery pump, it should be fitted on the downstream, or pressure side, of the pump.

Ensure all connections are leak free.

Filter Head Assembly

Donaldson filter head assembly P506139 has 3 x 1/8" BSP gauge ports. The gauge should be installed into the upstream port on the top of the head. We recommend the use of fuel resistant thread sealant on the gauge thread.



Head Assembly Step 1

Using a correctly sized tool, undo the port plug in the top port by rotating in an anti-clockwise direction.



Head Assembly Step 2

Screw the gauge firmly into the gauge port. Gently tighten with a correctly sized spanner until the gauge is correctly oriented for viewing. Do not over-tighten.

Filter Installation & Servicing Guide



1. Check the filter service indicator.

Check to see that the indicator shows that the filter is due for servicing, or at a maximum of 1 year of use, whichever occurs first.

2. Turn system off and release pressure.

Ensure fuel system is turned off. Check there is no pressure present.

3. Unscrew and remove old filter and gasket.

Properly dispose or recycle the filter as required by local regulations



4. Wipe filter head with clean cloth.

Clean the filter head surfaces when performing a filter change. Use a clean cloth.



5. Inspect the new filter for damage.

Check the new filter you will be installing for any damage. Do not install a dented filter as the canister has been weakened.



6. Lubricate the threads.

Lubricate threads of filter head with clean oil or fuel.

Failure to do this could result in thread galling.



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

Lubricate seal(s) with clean oil.



8. Align threads. Spin filter until gasket contacts.

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



9. Hand tighten the filter.

Tighten per the guidance of the icons which appear on the filter element. Do not over-tighten.

Note: For gravity fed systems, where no pump is used, the gauge should not be used as it may not indicate any significant pressure. Gravity will provide only approx. 1psi for every 1m of head height of the tank above the filter. For gravity fed systems, we recommend replacing the P579099 filter when the flow rate becomes unacceptably slow, or at a maximum of 1 year of use, whichever occurs first.



Breather

A Donaldson T.R.A.P. (Thermally Reactive Advanced Protection) breather filter is supplied and should be installed on the air breathing vent for the tank, with all other outlets sealed against air leakage.

Incoming air into a tank is known as a major source of contamination. The TRAP breather, with its 3um particulate performance, will also strip moisture from inflowing air, and will greatly reduce contamination in your fuel.



Gauge

The gauge is only intended for use with a pump. When the filter is new, the gauge will display the fluid pressure before the filter. As the P579099 filter loads with contamination, this pressure will gradually increase. The filter should be replaced when the flow pressure exceeds 25psi, or reaches the maximum pressure of the delivery pump, whichever is lower, or when the flow rate becomes unacceptably slow.

Note: Pressure should be read while fluid is flowing, to give a true indication of the filter condition.

NOTE: If a significant volume of water is present in the fuel, the filter may rapidly display an increase in pressure. As the filter will not allow any free water to pass, it may reach capacity in a short period of time. In this event, the tank should be inspected for a significant volume of water. Any water found should be manually drained or syphoned from the tank. Install a new P579099 filter after this process has been completed.