

511 Series “Alert”

Particulate Removal and Phase Separation Detection in Alcohol Blended Fuels



51110A and 51130A

For High-Flow Fuel Dispensers

Detects Phase Separation in Ethanol Blended Gasoline

FOR DISPOSAL INFORMATION PLEASE CONTACT YOUR NEAREST EPA OFFICE.

Benefits

- PetroClear® model 51110A is a particulate removing and Phase Separation Detecting spin-on filter designed for aftermarket cost efficient filtration of fuels at high volume fueling locations such as truck stops, card lock sites, and industrial and commercial applications.
- The PetroClear® model 51110A “Alert” is a spin on filter designed to remove particulate and to detect and react to phase separation in Ethanol blended gasoline phase separation. IT WILL NOT SENSE NOR REACT TO WATER IN NON-ALCOHOL BLENDED GASOLINE (NEAT GASOLINE).
- PetroClear® model 51110A filter offers efficient 10 micron (nominal) particulate removal and detects phase separation in ethanol blended gasolines.
- PetroClear® model 51110A is a spin-on filter designed to remove particulate, detect and stop flow of phase separation (Ethanol water) in Ethanol blended fuels.
- Textured paint coating helps ensure a simple, mess-free installation and removal process.

PetroClear® Filters are NOT to be used in Aviation Fuel Applications!

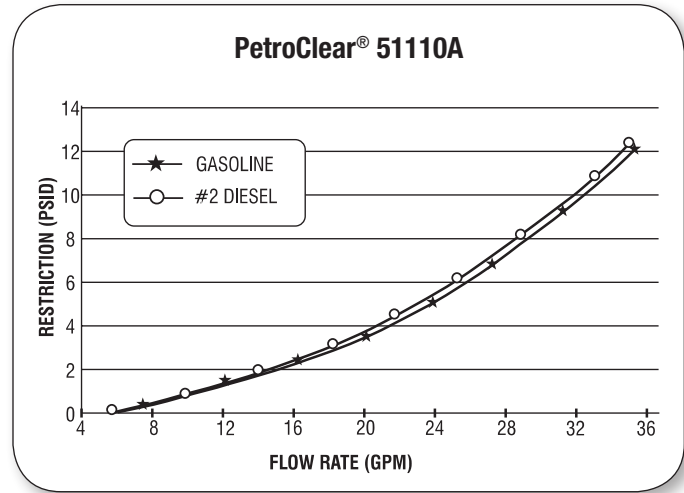
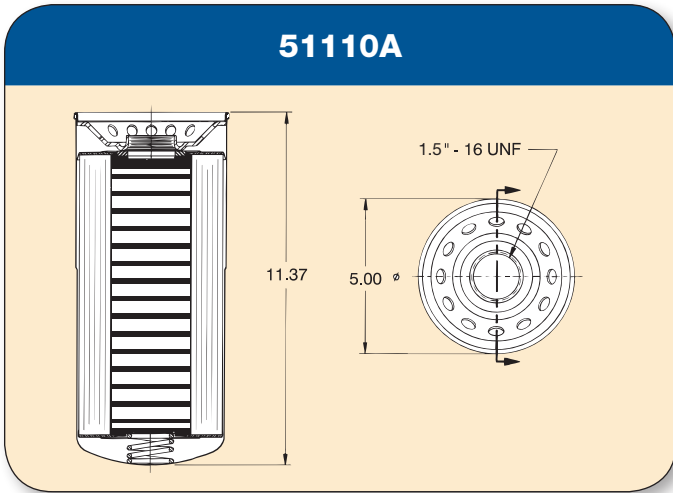
Specifications

- The maximum flow rate for PetroClear® model 51110A is 40 gpm (151 lpm). Maximum operating pressure is 50 psi (3.4 bar). Collapse pressure is 150 psid (10.3 bar). Maximum operating temperature is 250°F (139°C).
- PetroClear® model 51110A utilizes a standard 1.5”-16 UNF mounting thread ref. (1” flow) required for most spin-on filter adapters used in aftermarket and/or high-flow applications.
- Adapters are available for model 51110A in aluminum. These adapters are available in both NPT or BSP inlet/outlet threads. Inlet/outlet sizes are available in 1” and 1.5” single adapters. Adapters are also available in a dual style with both 1.5” and 2” inlet/outlet (2”- 4 bolt SAE flange combination).
- Each filter is packaged with a separate gasket that will fit most standard brands of adapter filter mounting bases. Install gasket in adapter’s groove by placing in groove at 3 to 4 places and then smoothing gasket between those points. Lubricate with light oil. NOTE: Gasket does not mount on filter!
- The chemical center core assembly detects and reacts to phase separation and significantly restricts flow through filters.
- The PetroClear® model 51110A utilizes a 10 micron (nominal) cellulose media to remove particulate from Ethanol blended gasoline. Removes particulate 10 microns (nominal) or larger.
- The “Alert” models 51110A is designed to detect and react to phase separation in Ethanol blended gasoline.

NOTE: If you experience frequent filter changes, it is recommended that you have fuel samples analyzed to determine the source of contamination, such as water, dirt, rust, bacteria, phase separation, etc.

511 Series "Alert"

Detects Phase Separation



Model	51110A	51130A
Filter Type	Spin-On	Spin-On
Media Type	*Cellulose with Chemical Core	*Cellulose with Chemical Core
Micron Rating	10 Micron (nominal)	30 Micron (nominal)
Diameter	5.00"	5.00"
Height	11.37"	11.37"
Mounting Thread	1.5" – 16 UNF	1.5" – 16 UNF
Flow Rate	40 gpm (151 lpm)	40 gpm (151 lpm)
Flow	1" flow	1" flow
Shell Thickness	0.020	0.020
Gasket Material	Buna N	Buna N
Collapse (Min.)	150 psid (10.3 bar)	150 psid (10.3 bar)
Burst (Min.)	250 psi (17.2 bar)	250 psi (17.2 bar)
Max. Operating Temp.	250°F (139°C)	250°F (139°C)

*Particulate removing and chemical core detects phase separation.

Available Adapters

Part/Model Number	Description
1.00N1.5-16	1" NPT Inlet/Outlet Ports, 1.5" – 16 UNF (aluminum)
1.00B1.5-16	1" BSP Inlet/Outlet Ports, 1.5" – 16 UNF (aluminum)
1.25N1.5-16A	1-1/4" NPT Inlet/Outlet Ports, 1.5" – 16 UNF (aluminum)
1.50N1.5-16	1-1/2" NPT Inlet/Outlet Ports, 1.5" – 16 UNF (aluminum)
1.5B1.5-16ADA	1.5" BSP Inlet/Outlet Ports, 1.5" – 16 UNF (aluminum)
D1.5B1.5-16	1.5" BSP Inlet/Outlet Ports, 1.5" – 16 UNF (aluminum)
D2.0 N1.5-16*	2" NPT Inlet/Outlet Ports, 1.5" – 16 UNF (aluminum)

*The 4-bolt SAE flange combination allows both 1-1/2" & 2" inlet/outlet combinations.