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High-Pressure Coalescing Filter

Part Number 616190-1



The Clean Air Power coalescing filter is designed to meet the needs of medium and heavy-duty gaseous-fueled engines. It features a high flow rating and large holding capacity for the undesired impurities normally found in the fuel. It provides the necessary protection needed for fuel injectors and other precision components within the gaseous fuel systems.

The coalescing filter has removal efficiency greater than 99.97 % in the .3 to .6 micron particles range. The filter element is made of .01-micron microglass fibers constructed in a tubular form. During operation, fuel is forced through the coalescing media from the inside of the cartridge through the tubular wall to the outside, where the large droplets fall to the bottom of the housing. Oily water emulsion accumulates in the sump located in the bottom of the housing until drained. The molded polyurethane end seals of the element provide excellent sealing at both ends. Vapor-phase carryover oil that cannot be removed by any coalescing filter should be eliminated at the gas fueling station

The housing is made of high tensile strength aluminum for pressurized gas up to 3,600 psig with a safety factor of 4:1.

The element replacement kit for the filter (Part No. 700005) consists of the filter element, the housing O-ring and the drain plug O-ring.

Various inlet and outlet SAE fittings are available upon request.

This filter complies with the ESE R110 standard.



Specifications

Max operating pressure	3,600 psig 248 bar
Design safety factor	4 to 1
Operating temperature range	-40 to 225°F -40 to 107°C
Sump capacity	2.5 fl. Oz 74 ml
Weight (dry)	4.5 lbs 2.0 Kg
Overall length	7.65 in 194 mm
Minimum clearance for replacing filter element from inlet port	12.0 in 305 mm
Diameter	4.12 in 105 mm
Housing material	7075 T-6 aluminum
Port size (inlet & outlet)	SAE-8 straight thread O-ring (3/4-16 UNF-2B thread)
Drain port	SAE-4 straight thread O-ring (7/16-20 UNF-2B thread)
Coalescing efficiency	99.97% .3 to .6 micron particles
Pressure drop @ 85psig inlet	3psi @ 30scfm dry air, 17psi @ 80scfm dry air
Certification	ECE R110

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