



## VGR GAS COALESCING FILTER CARTRIDGE

The Nowata Filtration VGR Coalescing Filter Cartridge is a compressed air and natural gas coalescer. It will remove over 99.99% of oil and water aerosols from air and gas streams.

Although the VGR cartridge, by its very nature, will remove particulate, it is recommended that a particle filter be installed upstream of the coalescing filter. This will significantly extend the life and improve the removal efficiency of the VGR cartridge.

Flow is from the inside to the outside of the cartridge. Oil, water and other liquid aerosols pass through the filter media where their reduced velocities allow them to "wet" the filter fibers thus forming larger droplets. These large droplets continue moving through the media. The droplets collect on the outer cartridge wrap and drain, by gravity, to the bottom of the filter cartridge housing. The housing should have an extended sump for the collection of coalesced liquids. A definitive micron rating is not assigned to the VGR cartridge, but the particle removal capacity is around 0.5 micron.

### CONSTRUCTION

The VGR cartridge media is multi-layers of micro fiber glass with phenolic resin binder, rolled into a 1/2" thick cylinder. The inside core and end caps are made of carbon steel with Viton flat end gaskets in a Double Open End style. The cartridge is 2-5/8" Outside Diameter x 1-1/16" Inside Diameter x 10" Long (6.67 cm OD x 2.7 cm ID x 25.4 cm Long). Immediately outside of the fiber glass media is a perforated high density plastic support core covered with a thin polypropylene sheet. The outer poly sheet protects the glass fiber media and enhances the drainage down the outside of the cartridge.

### APPLICATIONS

Use the VGR as a final liquid removal stage in fuel gas and instrument gas/air applications. It also can be used as a pre-filter for compressed air and gas dryers or a final filter for air operated instruments, paint spray equipment and other pneumatic devices requiring oil and liquid free compressed natural gas or air.

### Cartridge Nomenclature:

PRODUCT NAME	DESCRIPTION	CARTRIDGE LENGTH (INCHES)
1VGR	Coalescing Cartridge Carbon Steel Core	10"
1VGR-SS	Coalescing Cartridge Stainless Steel Core	10"
3VGR	Coalescing Cartridge Carbon Steel Core	30"

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