



Filter Housing

VF-609

Clean Dry Fuel with High Performance *Aquacon*[®] Filter Cartridges for Helicopter Refueling and Dispensing Pumps

FEATURES

- **Positive Water Removal** – *Aquacon* cartridges remove free and emulsified water from fuels
- **Positive Water Holding** – filtered water is chemically locked in and can't be squeezed out
- **Pressure Increase** signals cartridge change
- **Effective Dirt Removal** – 98% + efficiency for 1/2, 5, or 25 micrometer particles

DESCRIPTION

The VF-609 is a versatile filter housing with bolted cover, designed for use with several different high performance *Aquacon* filter cartridges. Refer to the cartridge selection table on the reverse side.

Aquacon cartridges filter out water by chemically locking it into layers of super-absorbent media. Water removal efficiency is not affected by surfactants or additives, and once captured, the water cannot be squeezed out. Water capacity is as much as 1 1/2 quarts, depending on the flow rate. These cartridges also effectively filter out dirt, rust and other particulates.

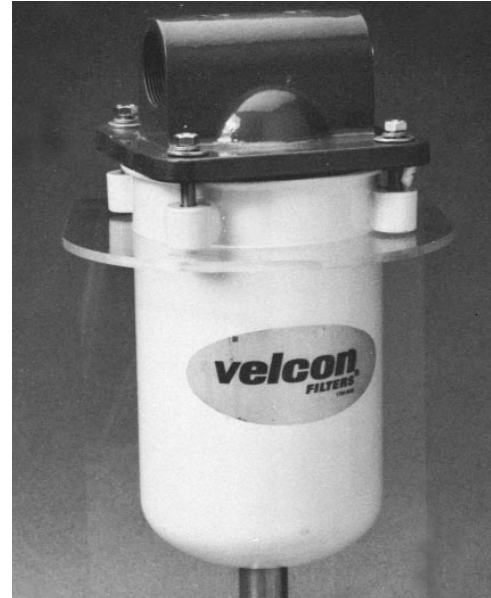
As a cartridge reaches its water-holding limit, the media expands very rapidly and restricts the flow. For fuels, the flow will completely stop, giving positive shut-off and guaranteeing water will not get downstream. For oils and other high viscosity liquids, the pressure drop will rapidly increase, signaling the need to change cartridges.

APPLICATIONS

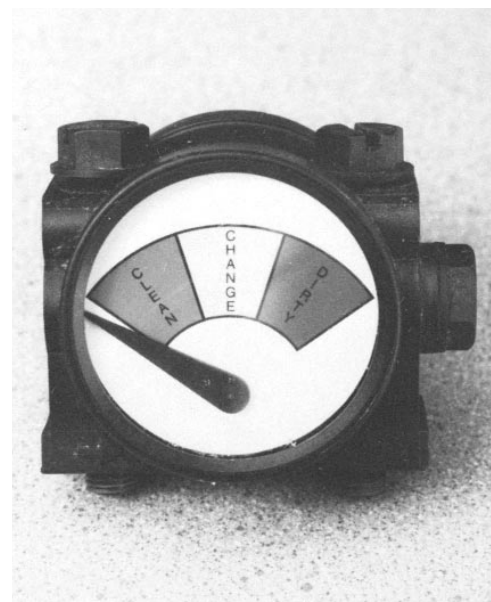
- Jet Fuel
- Motor Gasoline
- Selected Solvents
- Avgas
- Diesel Fuel

*****CAUTION*****

In fuels containing anti-icing additive (Di-EGME, FSII, Prist[®]), stagnant water bottoms can absorb large amounts of the anti-icing additive. This water/FSII solution can disarm water absorbing elements allowing water to pass downstream. Daily draining of the monitor vessel and of water bottoms upstream of the elements is **IMPERATIVE**. Also, changeout @ **15 psid**.



The VF-609 uses high performance *Aquacon* filter cartridges. Model above is shown without optional gauge.



The VF-609 gauge is an easy to install optional accessory.

SPECIFICATIONS

Filter Housing VF-609

- Maximum Operating Pressure: 150 psi
- Material: Cast aluminum head; carbon steel shell with epoxy coated exterior and interior; four bolt head
- Inlet/Outlet Connections: 1½" NPT
- Closure Seal: Buna-N O-Ring – P/N G-0565
- Weight: 8 lbs.
- Shipping Weight: 10 lbs
- ¼" brass petcock vent valve and ½" drain valve
- Bolted cover

Cartridges

- Maximum Operating Temperature: 250°F (121°C)
- Collapse Strength: 75 psi (5bar)
- pH Range: 5 - 9
- Nominal Filtration Efficiency: 98%

Optional Pressure Gauge (P/N 07-224)

- Two-faced for universal installation
- Mounts directly to filter head with two slotted bolts
- Magnetic actuation
- Safe – no pressure behind lens
- 2" dial face
- 3" color dial (green – yellow – red) meets international standards
- Pressure Gauge Function:

Color	Indicates	Pressure Drop
Green	Clean	0 - 15 psi
Yellow	Change	16 - 25 psi
Red	Dirty	26+ psi

OVER PRESSURE PROTECTION

When exposed to a high concentration of water, the differential pressure across an **Aquacon** cartridge will immediately increase. Pressure bypasses or other means to limit the inlet pressure to 75 psi (5 bar) should be installed to prevent the cartridge from collapsing.

FILTER CARTRIDGE SELECTION TABLE

Cartridge	Micron Rating	Typical Free Water in Effluent (Maximum)	Application	Recommended Flow-Rates
ACO-60901L	½	2 ppm	Jet Fuel/Avgas	15 - 36 GPM
ACO-609P3L (min qty 12)	.3	2 ppm	Jet Fuel/Avgas	15 - 36 GPM
AD-60925	25	50 ppm	Diesel Fuel	15 - 30 GPM

ORDERING INFORMATION

- Specify model VF-609 Filter Housing
- Unit is supplied with G-0565 Buna-N O-Ring and ¼" vent valve and ½" drain valve.
- Cartridges are **not** supplied and must be ordered separately.
- Viton O-Rings (P/N G-0565A) are available but must be ordered separately. They are recommended for gasoline and solvent applications.
- Optional Differential Pressure Gauge Assembly is P/N 07-224

RECOMMENDED SPARES


- 1 each G-0565 Buna-N O-Ring
- 6 each cartridges
- If Viton O-Rings are desired, 2 each G-0565A

OPTIONAL DRAIN VALVE

- Part Number 554Y020 is a Carbon Steel ½" NPT Ball Valve, with Mounting Nipple

*******CAUTION!*******

To protect the fuel system, including the VF-609 and other components, be sure to install pressure relief valve(s).



Velcon products are sold and serviced by a world-wide representative network. To order, contact Headquarters or your **LOCAL REPRESENTATIVE**:

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