

# Filter Selection Table



## Portable Filter Pumps



MP5  
(#1535)  
MP1EG  
(#1721)  
MP5E  
(#1661)



MCP5E/MDP5E  
(#1691)  
AVF  
(#2023)  
HP10/HP30  
(#1604)

## Stationary Housings



VF-62  
(#2076)  
VF-61  
(#1997)  
VF-609  
(#1997)  
VF-31E  
(#1997)



Vel-Max®  
(#1961)  
VF-71E  
(#1654)  
VF-166C/VF-2012C  
(#1588)  
VF82B  
(#1708)

## Filter Systems



TOC30 (#1751)  
TOC5 (#1857)  
HCP/HDP (#1693)

## Typical Solutions for Industrial Applications Equipment/Cartridge Combinations

For more detailed information, please refer to individual data sheets as indicated by the form # listed below photos or in parenthesis in the table.

Problem	Type of Fluid/Applications	Solution
<b>1. Water and Dirt in Oils</b>	Lube Oil Gear Oil Hydraulic Oil Turbine Oil	1a. <b>Portable Filter Pumps</b> The MP5, 5 GPM Portable Filter Pump is typical and widely used in industry. Use with <b>Aquacon®</b> cartridge (#1582) or FO-718PL pleated media (#1549)
		1b. <b>Stationary Filter Housings and Aquacon® Cartridges</b> Note that <b>Aquacon®</b> super-absorbent filters have become the industry standard for dirt and water removal. See #1770 for more info.
		1c. <b>Turbine Oil Coalescing System (#1751, 1857)</b> Use TOC30 System at 30GPM flow rate.
<b>2. Water and Carbon in Insulating Oils</b>	Transformer Oil Circuit Breaker Oil Switch Gear Oil Tap Changer Oil	2a. <b>Aquacon® Cartridges in Portable Filter Pumps</b> MP-5 at 5 GPM and HP-30 at 30GPM flow rate.
		2b. <b>Insulating Oil Filter Systems</b> Use <b>Aquacon®</b> Cartridges in HCP-30 and TO-30 Systems at 30GPM flow rates.
		2c. <b>Aquacon® 1, 2, 3, and 4-Hi Cartridges (#1684)</b> Replacements for Alsop and Cuno disk type cartridges and Hilco blotter paper filters in existing housings.
<b>3. Water and Dirt in Fuels</b>	Gasoline Diesel Kerosene	3a. <b>Aquacon® Cartridges in VF-61, VF-62 or VF-31E Housings (#1655)</b> Positive Shut-Off features prevents pumping of contaminated fuel. Use Coalescer Cartridges in high volume applications.
		3b. <b>Spin-On Aquacon® Cartridges (#1717)</b> Use on gasoline and diesel fuel dispensers.
		4. <b>High Surface Area Pleated Media and Fiberglass Depth Media Cartridges (#1550)</b> Use in Stationary Housings at 1 to 600 GPM or Portable Filter Pumps at 1 to 30 GPM.
<b>4. Dirt (Particulates) In Oils and Fuels</b>	All Oils All Fuels	
<b>5. Acid in Oils</b>	Vacuum Pump Oil	5. <b>Adsorbent Cartridges: Fullers Earth or Activated Alumina (#1667)</b> Use in Stationary Housings or Portable Filter Pumps.
<b>6. Water and Dirt in Compressed Air</b>	Industrial Compressed Air Instrument Air	6. <b>Air Aquacon® Filter Cartridge in VF-31E Housing (#1689)</b> "Foolproof" 99.9+% water removal with positive lock-in and positive shut-down. Gross water removal via petcock.
<b>7. Water and Dirt in Solvents</b>	Hexane Toluene 1,1,1 -Trichlorene	7. <b>Solvent Aquacon® Cartridges (#1692)</b> Use in Stationary Housings. Typical: 1 to 80 GPM, down to 10 ppm water in effluent with 1 micrometer particulate rating.

Buy: [www.ValinOnline.com](http://www.ValinOnline.com) | Phone 844-385-3099 | Email: [CustomerService@valin.com](mailto:CustomerService@valin.com)

## Aquacon® Cartridges



**Aquacon® - Industrial**  
(#1582)



**Air Aquacon® ACA-210**  
(#1689)



**Aquacon® Spin-on Industrial**  
(#1717)

## Other Filter Cartridges



**Synthetic FOS**  
(#1734)



**Fiberglass FO-xxxFG**  
(#1550)



**Pleated Filters**  
(#1549)



**Coalescers**  
(#1561)



**Adsorbent LA-6xx**  
(#1667)

### Remove Dirt, Water and Acids From Oils and Fuels

#### FEATURES

- No tools required for changeout
- 150 psi design pressure
- Epoxy coated interior and exterior
- Positive O-ring closure

#### CARTRIDGE SELECTION

**Water and Dirt Removal** – AC-718 Series *Aquacon*® Cartridges remove both water and dirt from all oils and fuels. SD-718 *Superdri*® Cartridges remove dissolved water from insulating oils.

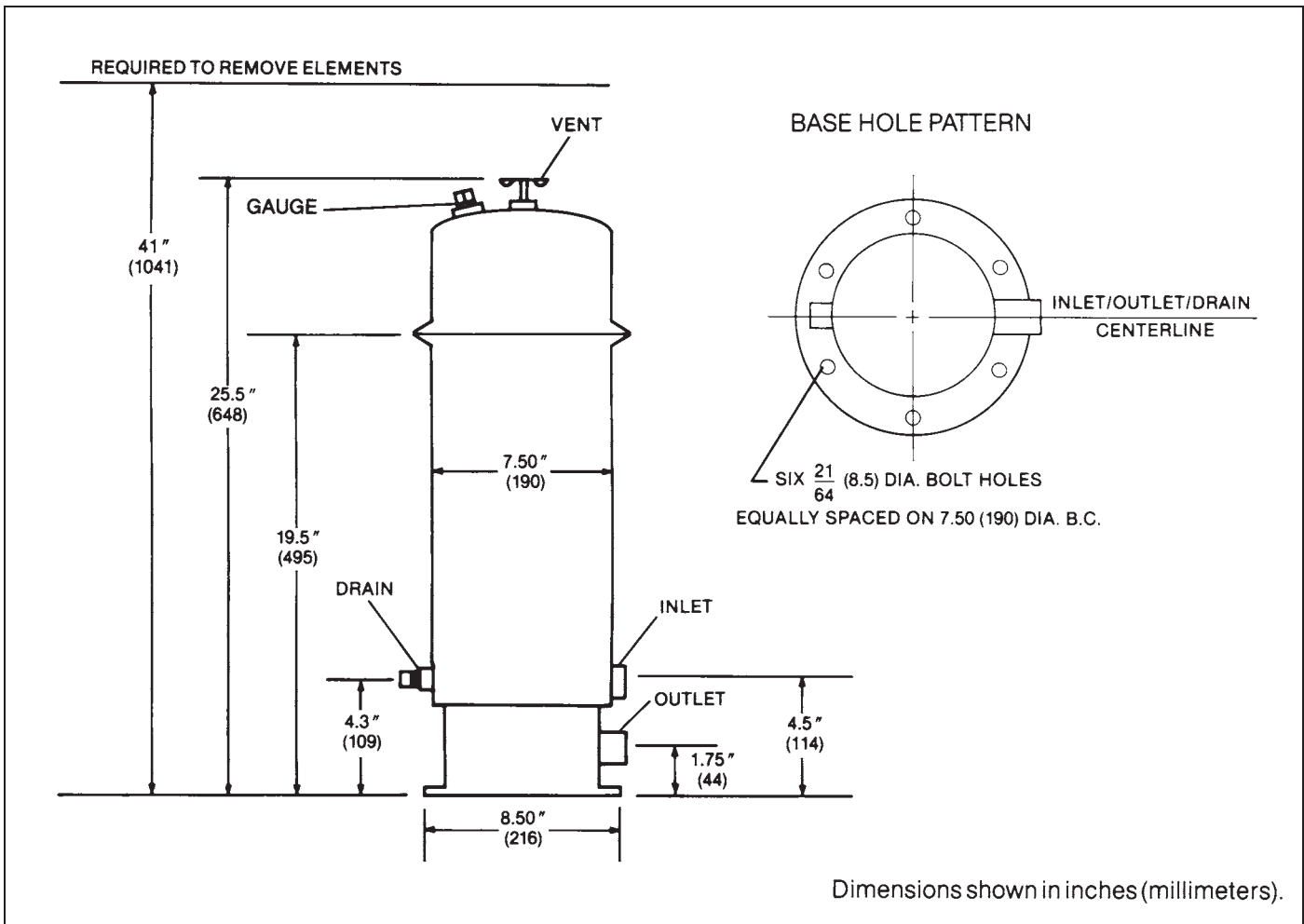
**Acid Removal** – LA-71801B Cartridges contain the most effective form of fuller's earth available. LB-71801 Cartridges contain activated alumina. Field proven in vacuum pump oil applications.

**Solids Removal** – FO-718PL Series high surface area pleated cartridges are the most cost effective for particulate contaminant removal. FOS-618/718PL Series all synthetic media cartridges are also available for particle removal. For removing amorphous, soft contaminants, FO-618FGA Series Cartridges with fiberglass depth media are often the most cost effective.

#### APPLICATIONS

- |                  |                 |                   |
|------------------|-----------------|-------------------|
| • Insulating Oil | • Kerosene      | • Turbine Oil     |
| • Hydraulic Oil  | • Gasoline      | • Lube Oil        |
| • Cutting Oil    | • Synthetic Oil | • Water/Glycol    |
| • Diesel Fuel    | • Biodiesel     | • Vacuum Pump Oil |





## SPECIFICATIONS

14 GA. (2 mm) carbon steel shell  
 150 psi (1034 k Pa) max operating pressure  
 250°F (121°C) design temperature  
 Buna-N O-ring lid gasket  
 Epoxy coated interior and exterior  
 Holds one cartridge

Inlet and outlet –  $\frac{3}{4}$ " NPT  
 Drain –  $\frac{3}{4}$ " NPT  
 Vent and gauge fittings –  $\frac{1}{4}$ " NPT  
 Volume without cartridge – 3.8 U.S. gallons (14.4 l)  
 Dry weight without cartridge – 17 lbs. (7.7 kg)  
 Shipping weight – 19 lbs. (8.6 kg)

## ORDERING INFORMATION

Specify Model VF-71E Filter Vessel. Unit is shipped as shown above with Buna-N Lid Gasket installed but without filter cartridge installed. Desired filter cartridges to be specified separately.

## RECOMMENDED SPARES

6 filter cartridges  
 1 G-1016 Buna-N Lid Gasket

**Note:** If Viton-A lid Gasket is desired, order G-1016A Gasket and replace Buna-N gasket that is installed.



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

COMPANY HEADQUARTERS:  
 Velcon Filters, Inc.  
 1210 Garden of the Gods Road  
 Colorado Springs, CO 80907-3410  
 Phone: 1.800.531.0180 / 1.719.531.5855  
 Fax: 719.531.5690  
 e-mail: vfsales@velcon.com  
 www.velcon.com

MANUFACTURING PLANTS LOCATED AT:  
 Colorado Springs, Colorado  
 Sylacauga, Alabama  
 Henryetta, Oklahoma

OVERSEAS AFFILIATES:

Frankfurt, Germany & Singapore

**Liquid Filtration  
 and Separation  
 Specialists**