

# **HTI FILTRATION CORP.**

## **Technical Bulletin # 94-02**

### **Filter Selection Information**

HTI Filtration manufactures a variety of filtration bags and elements to meet our customers varied filtration needs. While improving our manufacturing processes and media selection, we have generated several new products and elements. Some of our filtration systems can utilize several of these different elements depending on the amount and type of contaminant to be removed. The reference chart in this bulletin is designed to assist you in using the proper element to achieve the desired filtration level for your equipment. Additional element and system information is available by calling our Technical Service Department at (714) 799-7757.

Hydra-Supreme elements are distinguishable from less effective, “look-a-like” replacement elements by the dark rubber boot(s) that girdle the filter. These patented boots, along with our superior construction technique and low resistance media, are what allow Hydra-Supreme elements to last up to 200% longer in service and yield substantially higher filtration efficiencies than competing filters. Each boot seals the outlet junction of two element sections. To identify which element you currently use you can multiply the number of boots by two if the ID label is unreadable.

Hydra-Supreme elements are coded by number and letter. After the initial “H-” designation will be the filter series number followed by the seal and boot material letter and the number of element segments. The factory element designation is found below the serial number on the metal tag attached to the front of the canister. If the metal tag is missing Hydra-Tech’s staff will be glad to assist you in identifying your filter model and assisting you in picking the proper element for your requirements.

All filter elements start with the code letter “H” and are followed by the filter series it was designed for:

211 - 200 series filter canisters	(6.0” dia. x 16.5” height)
311 - 300 series filter canisters	(8.5” dia. x 11.0” height)
411 - 400 series filter canisters	(8.5” dia. x 21.0” height)
025 - 200 series bag canisters	(6.0” dia. x 16.5” height)
100 - 400 series bag canisters	(8.5” dia. x 21.0” height)

The letter designation following the series number designates the seal and boot material:

- B - Buna Synthetic Rubber - used for hydrocarbon oils and water based solutions.
- E - Ethyl Polypropylene rubber - used for phosphate ester fluids and other ester based hydraulic fluids.
- V - Viton - used for solvents and other reactive liquids (non stock item).

After the material listing will be number of filter segments used to construct the filter. Typically a lower number of elements will indicate a lower flow rate and/or higher efficiency rate. Some models will also show a specialty use designation after the element number to indicate a specific application such as:

- W - Water and Water Glycol fluids.
- OWB - Water Removal Bag

Hydro-Fil water absorption bags are listed only to indicate the canister size and function of the bags. No other information or coding is currently listed on the bag element strap.

Extreme care should always be exercised when changing to a non-factory specified or non HTI filter element. Dangerous high pressure and low filtration efficiency conditions can occur immediately. Severe damage to machinery and injury to personnel can occur due to the weak construction and poor flow characteristics of these types of elements. Please consult our Technical Service department for information on which elements are appropriate for your filter system.

#### HYDRA SUPREME FILTER LISTING

<u>Filter System</u>	<u>Current Filters</u>	<u>Old Equivalent Numbers</u>
H-200 series	211-B2 211-E2 211-PB4	211-B 211-E
H-300 series	311-B2  311-E2 311-B4 311-B4-W	-0502G, -351HS, -311-B -0512P, -351H -351SY, -351E, -311E  -311WG
H-400 series	411-B2  411-B4 411-E2  411-B6L	-1002B, 1012B, 411HL, 411HSL 411BL -1014Y, 411H, 411B -S1012P, 411SYI, 411PL, 411EL, 411PSL, 411ESL, 411SY

#### HYDRO-FIL BAG FILTER LISTING

H-200 Series	050-OWB
H-400 Series	100-OWB

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