

# HIGH FLOW PH SERIES FILTER CARTRIDGE



**High Flow cartridges replace existing cartridges with improved efficiency, lower pressure drop.**



## FEATURES

- Double screened, synthetic media designed for filtering.
- Rigid pleat structure to withstand high cyclic and pulse flow fatigue.
- The special synthetic media enables the cartridge to be used in a wide range of applications including those which would normally deteriorate a standard cellulose paper cartridge (i.e., water exposure).

The movement today is for cleaner fuel, lube oil and hydraulic oil. With lube and hydraulic oils, cleaner fluid means less wear of moving parts, improved performance and reduced downtime. Cleaner fuel means less wear of injectors, reducing the chance of increased fuel consumption, idle speed creep and dilution of lube oil.

One way to obtain these cleaner fluids is to use more efficient filters. By tightening the filtration of the filter cartridges, the oil will be cleaner.

Can it be that simple? Not really. If you are using a cartridge made of cellulose paper, tightening the efficiency of the cartridge will increase the pressure drop. Also, the cartridge will load up faster because it is catching more contaminant. This will result in more frequent cartridge replacement.

So, how can we improve the efficiency of the cartridge, not dramatically increase the pressure drop and optimize the cartridge life?

## HILCO's PH Synthetic Filter Cartridges

Changing from the old style, less efficient cellulose cartridges to a more efficient PH cartridge could result in an actual decrease in pressure drop. The PH cartridges have double screened, synthetic medias designed for high flows.

The synthetic media used in the PH cartridges also makes it impervious to water. As a result, the cartridge is well suited for steam turbine lube and hydraulic oils.

## CARTRIDGE SPECIFICATIONS

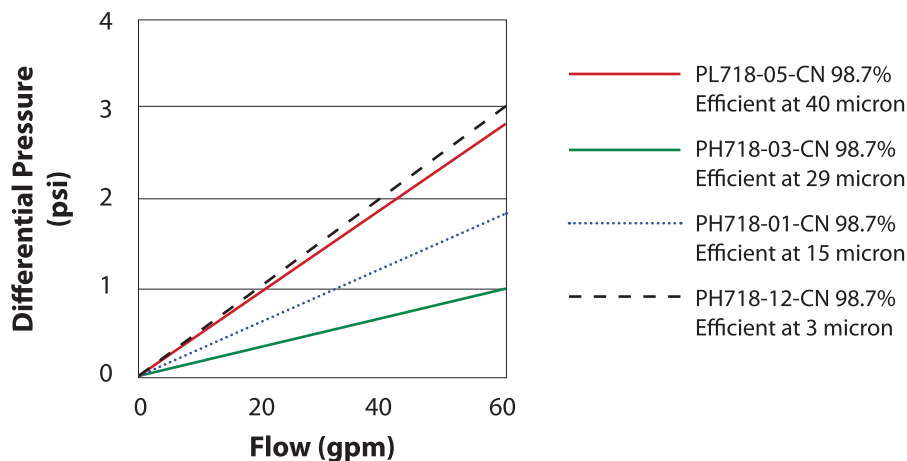
### Filtration Efficiency

Media Number	Absolute Rating x Beta <sub>x</sub> = 75*	Beta <sub>x</sub> = 200
05	40	41
03	24	25
01	15	17
11	10	12
12	3	4
14	2	3
16	<1	1

\* The "Beta Ratio" rating is an industry standard (ISO-4572) for measuring efficiency. For example, Beta<sub>3</sub> = 75 is equivalent to removing 98.7% of particles 3 micron and larger and Beta<sub>3</sub> = 200 is equivalent to removing 99.5% of particles 3 micron and larger.

### Flow vs. Pressure Drop

Cellulose (PL) vs. HILCO® Synthetic (PH) Cartridges  
220 SSU Oil



### Nomenclature

PH718-01-CN



**Size:** 310, 511, 518, 718, etc.

**Media Number:**  
05, 03, 01, 11, 12, 14, 16

**End Seal Arrangement:**  
Consult Factory

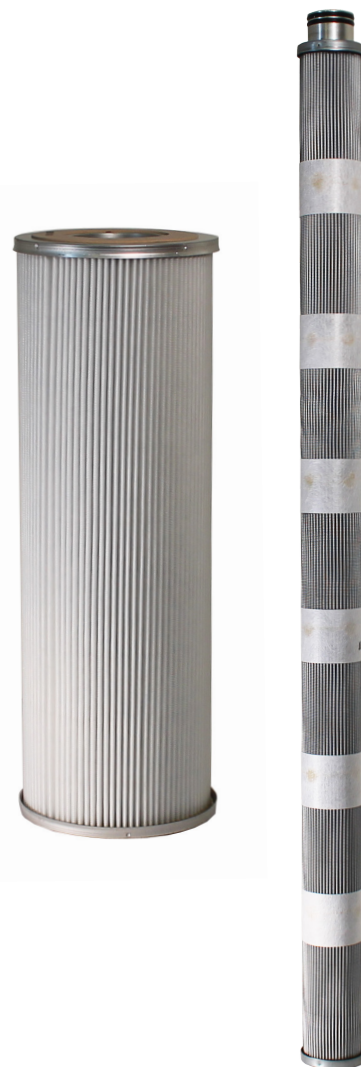
### Specifications

**Media:** Synthetic, double-screened with nylon or epoxy-coated steel

**Center tubes:** Corrosion resistant

**Collapse Pressure:** 100 psid (6.9 bar)

**Max. Service Temp.:** 250° F



**HILCO**  
FILTRATION SYSTEMS