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## PLATINUM 2040 SERIES FILTERS

PS-2040-001-05-15

### COST EFFECTIVE FILTRATION

HART 2040 PLATINUM Series absolute rated filter cartridge uses segregated flow channels and flow chambers to maximize the effective surface area of the pleated filter media within a 20.00 inch OD cartridge. Combining this design with the technique of pleating several different filter media together in a single pleat pack maximizes dirt holding capacity.

One HART 2040 PLATINUM Series filter is designed to have the dirt holding capacity of 150 standard 2.5 inch OD pleated cartridges of similar length. With a recommended flow rate of 450 GPM, this HART PLATINUM Series filter is the solution to achieving optimum performance while minimizing filtration costs.

### BENEFITS

- HART's highest dirt holding capacity cartridge.
- Provides significantly greater dirt holding capacity than traditional industry size cartridges.
- Constructed with metal end caps and core for high temperature applications.
- Wide-range of media options allows for compatibility with most fluids.
- Absolute rated media with fixed pore structure prevents particle unloading and provides reliable results in critical applications.

### COMMON APPLICATIONS

- Water and Wastewater, Process Fluids, Hydrocarbons, Brines, Organic Solvents, Fuels

### DIMENSIONS

**Outside Diameter:** 20.00"

**Inside Diameter:** 3.00" or 6.00"

**Length:** 40"



### MATERIALS OF CONSTRUCTION

**Filter Media:** Cellulose, Polypropylene, Micro-fiberglass, Nylon or Polyester

**Center Core:** Tinned Steel or Stainless Steel

**Netting:** Polypropylene or Nylon

**End Caps:** Tinned Steel or Stainless Steel

**PRODUCT SPECIFICATIONS**

**Micron Ratings @ 99.98% (beta 5000):** 0.5, 2, 5, 10, 20, 40, 70 and 100 Micron

**Maximum Operating Conditions:**  
185°F (85°C) continuous operating temperature

**Recommended Flow Rate for Optimal Dirt Loading:** 450 GPM

**Maximum Recommended Flow Rate:** 900 GPM

**Maximum Recommended Differential Pressure for change-out:** 35 PSID

**Maximum Recommended Differential Pressure:** 50 PSID

**MEDIA MICRON RATING AT EFFICIENCY**

| FILTER MODEL       | 2040 | 2041 | 2043 | 2045 | 2047 | 2048 | 2049 |
|--------------------|------|------|------|------|------|------|------|
| 99.00% (beta100)   | 0.3  | 1    | 2    | 5    | 10   | 25   | 40   |
| 99.98% (beta 5000) | 0.5  | 2    | 5    | 10   | 20   | 40   | 70   |

**DIRT HOLDING CAPACITY (LBS)\*** Based on Standard 40" filter element

| FILTER MODEL     | 2040 | 2041 | 2043 | 2045 | 2047 | 2048 | 2049 |
|------------------|------|------|------|------|------|------|------|
| Pounds of Solids | 165  | 230  | 230  | 250  | 265  | 300  | 300  |

**CLEAN PRESSURE DROP (PSID)\*** Based on Standard 40" filter element

| FILTER MODEL   | 2040 | 2041 | 2043 | 2045 | 2047 | 2048 | 2049 |
|----------------|------|------|------|------|------|------|------|
| PSID @ 150 GPM | 1.50 | 1.00 | 0.58 | 0.51 | 0.47 | 0.44 | 0.38 |
| PSID @ 300 GPM | 5.90 | 3.94 | 2.41 | 2.13 | 1.93 | 1.76 | 1.67 |

Data based on Filtration Technology Corporation Research Center's standard test procedure, a modified version of ISO 19438. The procedure uses ISO Standard test dust and deionized water as the challenge slurry. The reported data is based on the polypropylene elements.

**PLATINUM 2040 SERIES**

**MICRON RATING @ 99.98%**  
2040 - 0.5 Micron  
2041 - 2 Micron  
2043 - 5 Micron  
2045 - 10 Micron  
2047 - 20 Micron  
2048 - 40 Micron  
2049 - 70 Micron

**NON-MEDIA COMPONENTS**  
Blank - Tinned Steel  
S - 304 Stainless

**MEDIA**  
C - Cellulose  
G - Glass  
N - Nylon  
\*P - Polypropylene  
R - Polyester

**LENGTH**  
40 - 40"

**ENDCAP**  
5 - Dual o-ring (3" ID)  
X - Internal o-ring (6" ID)

**O-RING**  
B - Buna-N  
E - EPDM  
V - Viton®

\* The raw polypropylene materials composing these filters are FDA compliant according to CFR Title 21.

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