

# Trapper® HF Series

## High Flow Elements for Critical Process Applications

### Key Features

- High flow filter elements are constructed of meltblown polypropylene filter media.
- Retention Ratings from 1µm to 40µm (absolute micron rating).
- 100% polypropylene construction provides wide chemical compatibility.
- Inside to outside flow captures all contaminants within the filter element.
- Elements can be easily disposed of through incineration.
- Sturdy outer caps and center core allow use in rigorous applications.
- Greater filtration surface area per cartridge which significantly reduces the number of cartridges to change-out and dispose of, saving time and the environment.



Trapper®HF Series - High Flow Filter Cartridges for Critical Process Applications

### Performance Specifications

**Retention Ratings:**

1, 3, 4.5, 10, 20, 40 µm (absolute)

**Maximum Differential Pressure:**

50 psid (3.45 bar) @ ambient temperature

**Recommended Changeout Differential Pressure:**

35 psid (2.41 bar)

**FDA Listed Materials:**

All materials meet U.S. Food and Drug Administration requirements for food and beverage contact.

**Toxicity:**

All cartridge components meet USP-XXIII, Class VI toxicity criteria. They are safe for use in pharmaceutical applications.

**Purity:**

Trapper HF Series filter cartridges are free of surfactants, anti-static agents, binders, and adhesives.

### Product Specifications

**Materials of Construction:**

Filter Media:	Polypropylene
Support/Drainage:	Polypropylene
Endcaps:	Polypropylene
Center Core:	Polypropylene
O-ring:	Silicone, Buna N, Viton A, EPDM

**Dimensions (nominal):**

Outside Diameter:	6" (15.2 cm)
Available Lengths:	20", 40", 60" (50.8, 101.6, 152.4 cm)

Growing Strong Since 1907  
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*Over 100 Years  
of Service*



Division of MAHLE Industrial Filtration

### Typical HF Series Applications

- Pre and Final Filtration of Chemicals
- Refinery Processes - Pre and Final Filtration
- Process Water
- Oil and Gas Production
  - Seawater Injection
  - Well Injection Chemicals
- RO Pretreatment
- Amines
- Municipal Water Systems
- Pulp and Paper
- Electrolytic Fluids
- Metal Finishing/Plating Solutions

### Typical Flow Rates / Pressure Drop by Micron Rating

Micron Rating (µm absolute)	Initial Pressure Drop 20"/50.8 cm length (psid/gpm) / Bar (x100 = kPa)/lpm	Initial Pressure Drop 40"/102.0 cm length (psid/gpm) / Bar (x100 = kPa)	Initial Pressure Drop 60"/152.0 cm length (psid/gpm) / Bar (x100 = kPa)
1	0.0090/0.132	0.0049/0.72	0.004/0.059
4.5	0.0042/0.062	0.0022/0.032	0.0017/0.025
10	0.0035/0.051	0.0017/0.025	0.0010/0.015
20	0.0025/0.037	0.0013/0.019	0.0009/0.132
40	0.0010/0.015	0.0007/0.103	0.0005/0.007

(1) For optimum performance, Nowata recommends the following maximum flow rates per cartridge in water. Recommended flow rates would need to be adjusted for fluids other than water by the relative viscosity. Please contact your Nowata representative for additional information.

Element Length	Recommended Flow Rate For Optimum Performance Per Filter Element (gpm/min) / (m3/hr)
20"	88 / 20
40"	176 / 40
60"	220 / 50

### Typical Trapper HF Model Number

40 Nominal Cartridge Length (inch)	HF Cartridge Series	1 Absolute Micron Rating (µm)	S O-Ring/Gasket Material
20 40 60 <i>Other Lengths Available on Request</i>	Trapper HF Series	1 3 4.5 10 20 40	S = Silicone E = EPDM V = Viton N = Buna-N

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