

Upchurch Scientific® VHP Filters

Inline and Precolumn Designs for UHPLC

Upchurch Scientific Very High Pressure (VHP) Filters prolong the life of chromatography columns and other system components by capturing particulates in the fluid stream before they can enter and damage expensive fluidic elements. Engineered to withstand system pressures to 15,000 psi (1,035 bar), VHP Filters are available in 0.2 and 0.5 micron porosities, each featuring a low internal volume. Standard VHP Filter assemblies come with four spare filter units; replacement units are also available separately.

Inline Between the Pump and Valve

When placed between a high pressure pump and the injection valve in a UHPLC system, the VHP Inline Filter prolongs the life of the valve's rotor seal by catching particles sloughed off due to pump seal wear. The small volume of the VHP Inline Filter helps ensure mobile phase gradient changes reach the column with minimal delay.

Precolumn Protection for Expensive Columns

Designed to connect directly into the 10-32 coned port of a chromatography column, the VHP Precolumn Filter features a tube tip that can adjust to any port depth, preventing creation of dead volume. The VHP Precolumn Filter can be reused in multiple ports, repeatedly ensuring good connections. The easy-to-replace filter unit includes a fresh piece of stainless steel tubing, which extends the lifetime of the assembly.



| | Inline | | Precolumn | |
|---|---|---|--|---|
| Pressure Rating | 15,000 psi (~1,035 bar) | | 15,000 psi (~1,035 bar) | |
| Temperature Limit | 200 °C | | 100 °C | |
| Recommended Torque | 25 – 35 inch-pounds (~2.82 – 3.95 N-m) | | 10 inch-pounds (~1.10 N-m) | |
| Tubing Size | 1/16" OD tubing | | 1/16" OD tubing stem | |
| Reusable? | N/A | | Up to 10 cycles | |
| Threads | Internal threaded ports 10-32 coned | | External threaded ports 10-32 coned | |
| Materials of Construction | 316 Stainless Steel | | Proprietary PEEK™ Polymer Blend / 316 Stainless Steel | |
| Width | 0.485" (~12.3 mm) | 0.485" (~12.3 mm) | 0.375" (~9.5 mm) | 0.375" (~9.5 mm) |
| Length | 0.94" (~23.9 mm) | 0.94" (~23.9 mm) | 1.37" (~34.8 mm) | 1.37" (~34.8 mm) |
| Part Number/ Filter Assembly | VHP-500 0.5 µm  | VHP-505 0.2 µm  | VHP-550 0.5 µm  | VHP-555 0.2 µm  |
| Part Number/ Frit Replacements (Pack of 10) | VHP-501x 0.5 µm  | VHP-506x 0.2 µm  | VHP-551x 0.5 µm  | VHP-556x 0.2 µm  |

Specifications are subject to change without notice.
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IDX1686-PD-UP / 10.2012

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