QUICKCHANGE® AT AND ATX DISPOSABLE FILTERS

Nondewetting membrane technology in a prewet filter that delivers particle excursion protection, ease-of-use, rapid changeout and safety.
Overview

Developed from the Mykrolis® family of technologies, QuickChange® disposable filters are designed for use in any aqueous-based chemical, are shipped water-wet and require no IPA prewetting procedures. Without an IPA prewetting requirement, QuickChange® disposable filters prevent alcohol/chemical interaction, avoid potential sources of contamination and eliminate the cost and inconvenience of hazardous waste disposal. QuickChange® disposable filters reduce filter change-out time, minimize system downtime and lower cost of ownership.

Superior Filtration Efficiency and High Flow

The combination of a nondewetting pleated membrane in a large filtration-area device allows QuickChange® disposable filters to maintain high flow, even with small pore sizes. By maintaining consistent flow rates in outgassing chemistries such as SPM, SC1 and SC2, QuickChange® disposable filters can help stabilize process conditions.

Less Handling, More Cleanliness and Safety

QuickChange® disposable filters eliminate handling of the filter element and decrease the possibility of contamination, making these filters ideal for critical applications that require highest purity liquids. QuickChange® disposable filters feature a compact and easy-to-handle housing shell, which reduces potential exposure to hazardous chemicals during installation and disposal, and promotes a safer working environment. Leak-free connections allow easy, quick and safe filter changeout.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Nondewetting PTFE membrane filter prewet and packaged in ultrapure DI water</td>
<td>Eliminates prewetting and flushing cycles</td>
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<tr>
<td></td>
<td>Eliminates chemical usage while reducing system downtime during filter changeouts</td>
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<tr>
<td></td>
<td>Saves time and greatly increases equipment uptime</td>
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<tr>
<td>Designed without o-rings</td>
<td>Design incorporates no o-rings to avoid potential sources of contamination</td>
</tr>
<tr>
<td>Available in retention ratings of 0.05 µm, 0.1 µm and 0.2 µm</td>
<td>Provides excellent small particle retention for a variety of particle sizes</td>
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<tr>
<td>Compact, disposable unit</td>
<td>Requires less space for changeout</td>
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<td></td>
<td>Minimizes downtime and simplifies changeout</td>
</tr>
<tr>
<td>High-performance membrane</td>
<td>Rapidly reduces particle count</td>
</tr>
<tr>
<td></td>
<td>Decreases system qualification time. Improves process parameters</td>
</tr>
<tr>
<td>Many connection types available</td>
<td>Connection types include: Super Type Pillar® fittings, Super 300 Type Pillar® fittings, Flowell® 20 fittings, FlareLock® II and Flarettek® compatible fittings</td>
</tr>
</tbody>
</table>
Dimensions

QuickChange® AT and ATX Chem-Line™ I Disposable Filters

T-Line ¾" Pillar® Fittings

L-Line ¾" Pillar® Fittings

T-Tube ¾" Super Type Pillar® Fittings

T-Tube ¾" Flowell®
20 Series Fittings

T-Tube ¾" FlareLock® II Fittings
**Chem-Line™ II 4” Disposable Filter with Flaretek® Compatible Fittings**

<table>
<thead>
<tr>
<th>Inlet/Outlet Fittings</th>
<th>Dim A</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8”</td>
<td>232.2 mm ± 1.3 mm (9.14 ± 0.05”)</td>
</tr>
<tr>
<td>1/2”</td>
<td>241.3 mm ± 1.3 mm (9.50 ± 0.05”)</td>
</tr>
<tr>
<td>3/4”</td>
<td>243.3 mm ± 1.3 mm (9.58 ± 0.05”)</td>
</tr>
<tr>
<td>1”</td>
<td>253.5 mm ± 1.3 mm (9.98 ± 0.05”)</td>
</tr>
</tbody>
</table>

**Chem-Line™ II 10” Disposable Filter with Flaretek® Compatible Fittings**

<table>
<thead>
<tr>
<th>Inlet/Outlet Fittings</th>
<th>Dim A</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8”</td>
<td>346.2 mm ± 1.3 mm (13.59 ± 0.05”)</td>
</tr>
<tr>
<td>1/2”</td>
<td>354.3 mm ± 1.3 mm (13.89 ± 0.05”)</td>
</tr>
<tr>
<td>3/4”</td>
<td>356.4 mm ± 1.3 mm (14.03 ± 0.05”)</td>
</tr>
<tr>
<td>1”</td>
<td>366.5 mm ± 1.3 mm (14.43 ± 0.05”)</td>
</tr>
</tbody>
</table>

**QuickChange® AT and ATX Chem-Line™ I Filter with Flaretek® Compatible Fittings**

<table>
<thead>
<tr>
<th>Differential Pressure (bar)</th>
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<tbody>
<tr>
<td>0.05 µm</td>
</tr>
<tr>
<td>0.1 µm</td>
</tr>
<tr>
<td>0.2 µm</td>
</tr>
</tbody>
</table>

**Performance Data**

**Flow Rates**

**QuickChange® AT 10” Disposable Filter with 3/4” Fittings**

**QuickChange® ATX 4” Disposable Filter with 3/8” Fittings**

**QuickChange® ATX 4” Disposable Filter with 1/2” Fittings**

**QuickChange® ATX 4” Disposable Filter with 3/4” Fittings**

**QuickChange® ATX 4” Disposable Filter with 1” Fittings**
**Specifications**

**Materials:**
- Membrane: Prewet, non-dewetting PTFE
- Supports: PFA
- Disposable shell: PFA, containing ultrapure DI water

**Retention rating:** 0.05 µm, 0.1 µm, and 0.2 µm

**Membrane area:**
- AT 10” filter: 9,000 cm² (9.7 ft²)
- ATX 4” filter: 5,000 cm² (5.4 ft²)
- ATX 10” filter: 13,000 cm² (14.0 ft²)

**Maximum operating conditions:**
- Maximum operating pressure: 0.579 MPa (5.79 bar; 84 PSI) @ 25°C
- Maximum forward differential pressure: 0.441 MPa (4.41 bar; 64 PSID) @ 25°C
- Maximum reverse differential pressure: 0.345 MPa (3.45 bar; 50 PSID) @ 25°C
- Maximum operating temperature: 150°C at 0.5 MPa (0.5 bar; 7.25 PSI)

**Compatibility:**
Entegris recommends QuickChange® disposable filters for use with aqueous-based chemicals at ambient temperatures (including H₂SO₄, H₃PO₄, HNO₃, HF, HCl, BOE, NH₄F, H₂O₂, TMAH, NH₄OH, and ozonated water) and elevated temperature applications (including SC1, SC2, SPM, and metal etch).
Ordering Information

QuickChange® AT 10” Chem-Line™ I Disposable Filter
Part Number
Q C D X A T 1 XX

Retention
Rating
Z = 0.05 µm
V = 0.1 µm
G = 0.2 µm

Fitting
LH = ¾” inlet/outlet, L-line, ½” vent/drain, Super Type Pillar® fittings
TH = ¾” inlet/outlet, T-line, ½” vent/drain, Super Type Pillar® fittings
TP = ¾” inlet/outlet, T-tube, ½” vent/drain, Super Type Pillar® fittings
TW = ¾” inlet/outlet, T-tube, ½” vent/drain, Flowell® 20 fittings

QuickChange® ATX 4” Disposable Filter
Part Number
Q C D X S TX XX

Retention
Rating
Z = 0.05 µm
V = 0.1 µm
G = 0.2 µm

Fitting
CHEM-LINE™ II STYLE HOUSINGS
1F = ½” inlet/outlet, ¼” vent/drain, Flaretek® compatible fittings
2F = ½” inlet/outlet, ¼” vent/drain, Flaretek® compatible fittings
OF = ¾” inlet/outlet, ¼” vent/drain, Flaretek® compatible fittings
4F = 1” inlet/outlet, ¼” vent/drain, Flaretek® compatible fittings

CHEM-LINE™ I STYLE HOUSINGS
LH = ¾” inlet/outlet, L-line, ½” vent/drain, Super Type Pillar® fittings
TH = ¾” inlet/outlet, T-line, ½” vent/drain, Super Type Pillar® fittings
TW = ¾” inlet/outlet, T-tube, ½” vent/drain, Flowell® 20 fittings
TF = ¾” inlet/outlet, T-tube, ½” vent/drain, FlareLock® II fittings

QuickChange® ATX 10” Disposable Filter
Part Number
Q C D X A TX XX

Retention
Rating
Z = 0.05 µm
V = 0.1 µm
G = 0.2 µm

Fitting
CHEM-LINE™ II STYLE HOUSINGS
1F = ¾” inlet/outlet, ¼” vent/drain, Flaretek® compatible fittings
2F = ½” inlet/outlet, ¼” vent/drain, Flaretek® compatible fittings
OF = ¾” inlet/outlet, ¼” vent/drain, Flaretek® compatible fittings
4F = 1” inlet/outlet, ¼” vent/drain, Flaretek® compatible fittings

CHEM-LINE™ I STYLE HOUSINGS
LH = ¾” inlet/outlet, L-line, ½” vent/drain, Super Type Pillar® fittings
TH = ¾” inlet/outlet, T-line, ½” vent/drain, Super Type Pillar® fittings
TP = ¾” inlet/outlet, T-tube, ½” vent/drain, Super Type Pillar® fittings
T3 = ¾” inlet/outlet, T-tube, ½” vent/drain, Super 300 Type Pillar® fittings
TW = ¾” inlet/outlet, T-tube, ½” vent/drain, Flowell® 20 fittings
TF = ¾” inlet/outlet, T-tube, ½” vent/drain, FlareLock® II fittings

For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select “Regional Customer Service Centers” for the center nearest you.

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Pillar® is a registered trademark of Nippon Pillar Packaging Company, Ltd.

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