LEPP
[Polypropylene Media – a/n Grade]

- All polypropylene construction
- Do not suffer from hydrolysis in aggressive solutions which would result in the contamination of the process fluid
- Broad chemical and thermal compatibility
- Low extractable and quick rinse-up
- Graded fibre density giving progressively finer particulate retention through the depth of the media, combining an optimised media pleating density gives LEPP cartridges exceptional lifetime performance.
- LEPP A is available in 0.3μm, 0.6μm, 1μm, 5μm and 15μm absolute rated pore sizes (99.99% removal; β = 10,000).
- LEPP N is available in 0.1μm, 0.2μm, 0.45μm, 1μm and 5μm absolute rated pore sizes (90% removal; β = 10).
- Manufactured in a cleanroom environment, all series cartridge pre-flushed with 18 megaohm UPW water.

Applications
UHP Water and Process Water
- Particulate and turbidity reduction
- Pre-R.O
- Process Cooling Water

Microelectronics
- Flat Panel Display – all application in wet etching, stripping, developer and cleaning process
- TFT (thin film transistor) processes and chemistries - wet etching, detergent, DI cleaning, stripper, rework, photoresist coating, thinner, HMDS, DI water and scrubbers
- Plating Bath – alkaline clean, etching, Nitric dip, Zincate (pre-)
- Chemical Mechanical Planarization (CMP) – Clarification & Classification
- Chemical Manufacturing – pre- and final filtration for solvent, photoresist and all pigment chemicals
- Bulk Photoresists and Solvents
- Pre-filtration for Clean Dry Air or Gases (i.e. N2)
**Product Specifications**

Materials of construction:
- Filtration Media: Polypropylene
- Upstream Support: Polypropylene
- Downstream Support: Polypropylene
- Inner Support Core: Polypropylene
- Outer Protection Sleeve: Polypropylene
- End Caps: Polypropylene
- End Cap Insert: 316L Stainless Steel
- Standard ‘O’rings/gaskets: Silicone/EPDM
- Seal Material: various
- Sealing Method: thermal welding

**Surface Area (10” cartridge):**
- Minimum ≥0.7 m²

**Dimension:**
- Outside Diameter: 2.5” (70 mm) [nominal]
- Lengths: 2-30 in (10-76 cm)

**Recommended Operating Conditions:**
- Temperature: 200°F (93°C)
- Temperature @ 35 psid: 160°F (71°C)
- Change Out ΔP: 35 psi (2.4 bar)
- ΔP @ Ambient 70°F (21°C): 70 psi (4.8 bar)
- ΔP @ 200°F (93°C): 20 psi (1.4 bar)
- Flow Rate: 10 gpm (38 lpm) per 10 in length

**Performance Specifications**

Biological Safety/Product Purity:
- Meets USP XXI Class VI requirements for plastics.
- All components FDA listed per CFR, Title 21
- Non-fiber releasing per FDA Part 210.3B (5) and (6)
- Non-photo sensitive

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**Ordering Information**

<table>
<thead>
<tr>
<th>Micron rating Selections:</th>
<th>Endcaps:</th>
<th>Nominal Length</th>
<th>Seal Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEPP-A (Absolute Rated Efficiency)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>LEPP-N (Nominal Rated Efficiency)</td>
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<tr>
<td>A</td>
<td>0.3/0.1 µm</td>
<td>E – D.O.E</td>
<td>05 – 5”</td>
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<tr>
<td>B</td>
<td>0.6/0.2 µm</td>
<td>A – 222 o’ring/Fin</td>
<td>10 – 10”</td>
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<tr>
<td>C</td>
<td>1/0.45µm</td>
<td>B – 222 o’ring/Flat</td>
<td>20 – 20”</td>
</tr>
<tr>
<td>D</td>
<td>5/1µm</td>
<td>C – 226 o’ring/Fin</td>
<td>30 – 30”</td>
</tr>
<tr>
<td>E</td>
<td>15/5m</td>
<td>D – 226 o’ring/Flat</td>
<td>40 – 40”</td>
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