The most extensively used backflushable pleated filter in power plant condensate.

- Backflushable pleated filter designed specifically for use in power plants
- The Hydro-Guard PPB-R is used in condensate applications with resin precoat
- Constructed with the highest purity materials (no fillers, talcs, TiO$_2$ or surfactants) for minimal rinse-up time
- Surface area exceeds that of conventional condensate filters by a 20:1 ratio for lower pressure drops, increased filter life and longer backflush cycles
- Eliminates costs associated with use and disposal of powdered resins
- Iron oxide and suspended copper are typically reduced by 98%
- Constructed to retain the resin precoat on the surface for efficient backflushing and particle removal.

**Performance Specifications**

**Maximum Operating Temperature:**
180 °F (82.2 °C)

**Maximum Differential Pressure:**
40 psid (2.8 bar) @ 150 °F (65 °C)

<table>
<thead>
<tr>
<th>Product Feature</th>
<th>Product Benefit</th>
<th>Customer Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backflushable filter element</td>
<td>Longer on stream life</td>
<td>Lower disposal costs</td>
</tr>
<tr>
<td></td>
<td>Reduced number of filter changeouts</td>
<td>Reduced personnel exposure to radiation during filter changeouts</td>
</tr>
<tr>
<td>High surface area</td>
<td>Longer run times</td>
<td>Lower operating costs</td>
</tr>
<tr>
<td></td>
<td>Higher dirt holding capacity</td>
<td>Fewer backflushes for reduced disposal costs</td>
</tr>
<tr>
<td>All Polypropylene</td>
<td>Virtually no extractables</td>
<td>Concerns eliminated with regard to chemistry changes</td>
</tr>
<tr>
<td></td>
<td>Incinerable</td>
<td>Reduced startup costs (i.e. downtime rinse-up water, etc.)</td>
</tr>
<tr>
<td></td>
<td>Radiation Resistant</td>
<td></td>
</tr>
<tr>
<td>Modular design</td>
<td>High structural integrity</td>
<td>Easy retrofit into existing pressure vessels</td>
</tr>
<tr>
<td>Absolute rated filter media</td>
<td>Highly efficient particle removal</td>
<td>Less damage from iron and copper in boiler and turbine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quicker plant startups</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fewer boiler cleanings</td>
</tr>
</tbody>
</table>
**Product Specifications**

**Materials of Construction**
- Filter Media: Polypropylene
- Support Material: Polypropylene
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Gasket/O-ring Materials: EPDM (standard), Others available

**Pressure Drop/Flow Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Delta Pressure $\Delta P = (k)$ (Flow Rate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGPPBR4</td>
<td>$\Delta P = (0.05)$ Flow Rate</td>
</tr>
<tr>
<td>HGPPBR10</td>
<td>$\Delta P = (0.03)$ Flow Rate</td>
</tr>
</tbody>
</table>

This information is with water at ambient temperatures. Differential pressures are in PSID based on flow in GPM through a 10" (25.4 cm) element.

**Part Numbers/Ordering Information**

HGPPB-R – ▼ – ● – P – ◆ – ▼ (e.g. HGPPB-R–4–40–P–E–DOE)

<table>
<thead>
<tr>
<th>Code</th>
<th>Filter Grades*</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4 µm</td>
</tr>
<tr>
<td>10</td>
<td>10 µm</td>
</tr>
</tbody>
</table>

* Based on typical application usage.

**For details, contact**
Pall Corporation.

1 - Registered trademark of DuPont Dow

**Code Gasket/O-ring Materials**
- S: Silicone
- N: Buna N
- V: Viton¹ A
- E: EPDM

**Code End Configurations**
- DOE: DOE with elastomer gasket seal and endcaps
- M3: SOE flat closed end, external 222 O-rings (retrofits other manufacturers' Code 0)**
- M6: SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6)**
- M7: SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7)**
- M8: SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5)**
- COOP: Fine thread direct screw in
- TVO: Extended neck for better sealing
- PAK: Easy installation and removal; double seals for high integrity
- PEA: Retrofit for 2* (5.1 cm) seat cups
- AERO: Connects directly to tube sheet without additional hardware

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