Heavy-Duty Diesel PreCare Duplex Filter

Applications

Application Introduction:
The Reason for Better Engine Filtration
The Heavy-Duty Diesel PreCare Duplex Filter is an advanced system for diesel pre-filtration which protects equipment OEMs and operators from costly service calls and downtime. The duplex configuration consists of an assembly with multiple filter housings, which are connected by a change-over ball valve with a simple, single lever operation. The HDPD is available in the familiar BC (manual drain) or HT (auto drain) version.

Features and Benefits
- Simple, single-lever change-over ball valve for seamless operation and service
- Manual or fully automatic Water-In-Fuel (WIF) sensor
- Optional fuel pre-heater and water sensor
- Small envelope size offers greater flexibility in mounting locations
- Low investment cost due to the economical design
- Long service life of the element yields low operating costs
- Easy installation due to various porting configurations
- Easy adaption to the on-board power supply
- Unsurpassed water removal for ULSD

Flow Rating: up to 476 gph (up to 1800 lph)
Operating Pressure: 14.5 psia, (<1 bar absolute) suction side application
Temperature Range: BC: -40°F to 194°F (-40°C to 90°C)
HT: -4°F to 194°F (-20°C to 90°C)
Nominal Voltage: 24V DC (12V DC is optional for heater or water sensor)
Rated Power Fuel Preheating: 300W
Water Separation Efficiency: ≥95% to ISO CD 16332
Porting Thread: 340 BC: M22x1.5
600 BC: M27x2.0, SAE - 12 ORB (optional)
600 HT: G 3/4" (BSPP)

Filter Housing Specifications
Heavy Duty Diesel PreCare Duplex Filter

Metric dimensions in ( ). Installation instructions included on element

Note: for dimensions of other configurations, please contact the factory

Note: for marine applications requiring filter housings constructed of ductile iron, please contact the factory
Heavy-Duty Diesel PreCare Duplex Filter

<table>
<thead>
<tr>
<th>Particulate Element</th>
<th>Filtration Ratio Per ISO 19438</th>
<th>Dirt Retention Per ISO 19438</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 μm</td>
<td>n &gt; 10 μm (c)</td>
<td>300 mbar m &gt; 42g</td>
</tr>
<tr>
<td></td>
<td>&gt; 99%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coalescing Element</th>
<th>Suction Side Coalescing Per ISO CD 16332</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Flow</td>
<td>Single Pass Water Removal Efficiency</td>
</tr>
<tr>
<td>10 μm</td>
<td>&gt; 95%</td>
</tr>
<tr>
<td>158 gal/h</td>
<td></td>
</tr>
</tbody>
</table>

Flow Direction: Outside In
Element Nominal Dimensions: 3.8" (95.6 mm) O.D. x 7.0" (177.2 mm) long - 340 Size
3.8" (95.6 mm) O.D. x 9.4" (238.2 mm) long - 600 Size

Note: For additional HDP performance information, please contact the factory

Fuel Oils

- ULSD15 and similar petroleum diesels
- Biodiesel blends
- Synthetic diesel and blends

Note: For Flow and Pressure information, please contact the factory

<table>
<thead>
<tr>
<th>Size</th>
<th>Evolution Stage</th>
<th>Filtration Rating</th>
<th>Filter Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>0340</td>
<td>BC1</td>
<td>7 = 7 μm</td>
<td>KF1</td>
</tr>
<tr>
<td>0600</td>
<td>HT1</td>
<td>10 = 10 μm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 = 30 μm</td>
<td></td>
</tr>
</tbody>
</table>
How to Build a Valid Model Number for a Schroeder HDPD Housing Supplied w/ Element:

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDPD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: NOTE: Only box 9 may contain more than one option

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDPD</td>
<td>KF1</td>
<td>600</td>
<td>HT1</td>
<td>10</td>
<td>A</td>
<td>1.X</td>
<td>-</td>
<td>AS1</td>
</tr>
</tbody>
</table>

= HDPD KF1 600 HT1 10 A 1.X /-AS1

Filter Model Number Selection

- **BOX 1**
  - Filter Series: HDPD

- **BOX 2**
  - Filter Material: KF1 = Dieselmicron®

- **BOX 3**
  - Size:
    - 340 = 90 gph
    - 600 = 160 gph
    - 1200 = 317 gph
    - 1800 = 476 gph

- **BOX 4**
  - Evolution Stage:
    - BC1 = Manual Drain Configuration
    - HT1 = Auto Drain Configuration

- **BOX 5**
  - Filtration Rating:
    - 7 = 7 μm
    - 10 = 10 μm
    - 30 = 30 μm

- **BOX 6**
  - Type of Clogging Indicator:
    - W = no clogging indicator (340 & 600 BC only)
    - A = blanking plug in indicator port (600 HT only)
    - UED = vacuum gauge (600 HT only)

- **BOX 7**
  - Type Code: 1

- **BOX 8**
  - Modification Number:
    - X = latest version number always supplied

- **BOX 9**
  - Options:
    - AS1 = w/ integrated water sensor (12/24 VDC) *standard on 600 HT
    - H1 = w/integrated fuel pre-heating (12 VDC)
    - H2 = w/ integrated fuel pre-heating (24 VDC)
    - PH3 = Hand priming pump (600 BC only)
    - Omit = None

**NOTES:**

The HDPD will have the number of housings needed to support the flow rate specified on each side (ex. HDPD 1200 = 2x HDP 600 left side & 2x HDP 600 right side)