Mobile Filtration Systems

Description

The Schroeder Mobile Filtration System is a compact, self-contained filtration system equipped with high efficiency, high capacity elements capable of removing particulate contamination and/or water quickly, conveniently and economically. It is perfect for cleaning up existing systems as well as for prefiltering new fluids, since new fluids often have contamination levels significantly higher than that recommended for most hydraulic systems.

The MFS single filtration unit can remove either water or particulate contamination. The MFD dual filtration unit can be used to remove both water and particulate contamination, or for staged particulate contaminant removal.

Features and Benefits

- Single, double and triple bowl length option allows the flexibility of additional dirt-holding capacity
- Modular base eliminates hoses between components and minimizes leakage
- Base-ported filter provides easy element service from the top cap
- DS Dirt Alarm® indicates when filter element needs changed
- Integral suction strainer protects pump
- Hoses and connection tubes included (13’ total length)
- Option for the addition of Contamination Sensors and WLAN/LAN Communication (CSI-C-11)

Applications

- Supplementing continuous filtration by system filters
- Cleaning up a hydraulic system following component replacement
- Filtering new fluid before it is put into service
- Transferring fluid from storage tanks and drums to system reservoirs

Contamination Sensor for Remote Visibility Options

The HY-TRAX® manual fluid sampling system: Schroeder now offers the HY-TRAX® manual fluid sampling system as an additional option allowing for real-time fluid condition monitoring. ISO particle counts are visually displayed on the TCM. Users will now know when they have reached their desired ISO contamination levels. For more information, please see page 102.

CSI-C-11: Schroeder also offers the CSI-C-11 Communication Interface for WLAN or LAN transmission of data and data storage capabilities. For more information, please see page 38.

Specifications

<table>
<thead>
<tr>
<th>Flow Rating: 7 gpm (26.5 L/min) max or 14 gpm (53.0 L/min) max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity Range: 40 - 1,000 SUS (4 - 216 cSt) Higher viscosity version available. Contact factory for details.</td>
</tr>
<tr>
<td>Hose Pressure Rating: 30 psig (2.0 bar) @ 150°F (65.6°C) Full vacuum @ 150°F (65.6°C)</td>
</tr>
<tr>
<td>Fluid Temperature: 25°F to 150°F (-4°C to 65°C)</td>
</tr>
<tr>
<td>Bypass Valve Setting: Cracking: 30 psi (2 bar)</td>
</tr>
<tr>
<td>Material: Manifold and cap: Cast aluminum Element case: Steel</td>
</tr>
<tr>
<td>Compatibility: All petroleum based hydraulic fluid. Contact factory for use with other fluids.</td>
</tr>
<tr>
<td>Motor: 115 VAC Single phase 3/4 hp (7 gpm) or 1-1/2 hp (14 gpm)</td>
</tr>
<tr>
<td>Element Change Clearance: 8.50” (215 mm) 1K (9, 18 or 27” depending on model configuration)</td>
</tr>
</tbody>
</table>

Weights

<table>
<thead>
<tr>
<th>gpm</th>
<th>MFS-1K (lb)</th>
<th>MFS-2K (lb)</th>
<th>MFS-3K (lb)</th>
<th>MFD-1K (lb)</th>
<th>MFD-2K (lb)</th>
<th>MFD-3K (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>170 (77)</td>
<td>180 (82)</td>
<td>190 (86)</td>
<td>185 (84)</td>
<td>203 (92)</td>
<td>220 (100)</td>
</tr>
<tr>
<td>14</td>
<td>170 (80)</td>
<td>187 (85)</td>
<td>197 (89)</td>
<td>192 (87)</td>
<td>210 (95)</td>
<td>227 (103)</td>
</tr>
</tbody>
</table>
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U.S. Patents 6568919 7604738

How to Build a Valid Model Number for a Schroeder MFS:

Example: NOTE: One option per box

MFS 1 09 Z10 B 07 = MFS109Z10B07

Model Number Selection

<table>
<thead>
<tr>
<th>Box 1</th>
<th>Box 2</th>
<th>Box 3</th>
<th>Box 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFS</td>
<td>1</td>
<td>09</td>
<td>Z10</td>
</tr>
<tr>
<td>MFD</td>
<td>3</td>
<td>27</td>
<td>B</td>
</tr>
</tbody>
</table>

Element Media First Filter

- Z01 = 1 μm Excellement® Z-Media® (synthetic)
- Z03 = 3 μm Excellement® Z-Media® (synthetic)
- Z05 = 5 μm Excellement® Z-Media® (synthetic)
- Z10 = 10 μm Excellement® Z-Media® (synthetic)
- Z25 = 25 μm Excellement® Z-Media® (synthetic)
- EWR = Water Removal

Element Media Second Filter (MFD Only)

- Z01 = 1 μm Excellement® Z-Media® (synthetic)
- Z03 = 3 μm Excellement® Z-Media® (synthetic)
- Z05 = 5 μm Excellement® Z-Media® (synthetic)
- Z10 = 10 μm Excellement® Z-Media® (synthetic)
- Z25 = 25 μm Excellement® Z-Media® (synthetic)
- G03 = 3 μm Excellement® Z-Media® (synthetic) w/GeoSeal®
- G05 = 5 μm Excellement® Z-Media® (synthetic) w/GeoSeal®
- G10 = 10 μm Excellement® Z-Media® (synthetic) w/GeoSeal®
- G25 = 25 μm Excellement® Z-Media® (synthetic) w/GeoSeal®
- GWR = Water Removal w/GeoSeal®

Seal Material

- B = Buna
- V = Viton®
- H.5 = Skydrol
- Compatibility

Voltage

- Omit = 115 V / 60 Hz / 1-Phase
- A = 230 V / 60 Hz / 3-Phase
- B = 460 V / 60 Hz / 3-Phase
- C = 220 V / 50 Hz / 1-Phase
- D = 230 V / 60 Hz / 1-Phase

Pump Size (gpm)

- 07
- 14

Particle Counter

- P = Without Particle Counter
- P-CSI = Particle Counter + CSI-C-11 Option
- P-CSI-W = Particle Counter + CSI-C-11 + Water Sensor (No Display) Option