Quality That Won’t Cost You More

When every dollar counts, it’s good to know that Norman meets all of your requirements at a price nobody can match, feature for feature, dollar for dollar.

Norman Equipment Company’s off-line filtration units are designed to filter your hydraulic and lube oils during oil transfer or as a kidney-loop process.

It is common to find contaminants ranging from water to particulate in new shipments of oil. On average seven grams of particulate contamination is found in every 100 gallons of new barreled oil. In most cases the oil in your system is at a higher cleanliness level than the oil you receive from your supplier.

The Norman Filtration Systems are ideal for filtering particulate and water contaminant’s found in new oil and oil found in existing hydraulic and lube oil systems. By not removing these contaminants, critical components are often damaged leading to expensive repairs or replacements and down-time.

FEATURES & BENEFITS

• 5 & 11 GPM Flow Capacities
• Two Filters:
  Longer Filter Life
  Two Stage Filtration
  Clean, Easy Filter Change-Out
• Filtration Down to 1 Micron Absolute
• Water Absorbing Elements
• Industrial Quality Gear Pump
• Heavy Duty Cart with Drip Pan
• Pump Safety Relief Valve
• "Y" Strainer on Pump Inlet
• 12' Long Hose Assemblies
• Easy to Read Pressure Gauges

SPECIFICATIONS

INDUSTRIAL GRADE GEAR PUMP:
  NEF05: 5.3 GPM
  NEF11: 11 GPM

ELECTRIC MOTOR:
  NEF05: 1/2 HP @ 1725 RPM, 1.15 S.F., TEFC
  NEF11: 3/4 HP @ 1725 RPM, 1.15 S.F., TEFC

ELECTRIC SERVICE REQUIRED:
  115 Volts, 10 Amps, Single Phase, 60 HRZ

POWER CORD:
  12' Long Industrial Cord (14-3) With Standard 3-Prong Plug

ON/OFF SWITCH:
  Industrial Toggle-Operated Motor Starter Mounted in a NEMA-1 Housing with Replaceable Motor Overloads.

PUMP RELIEF SETTING:
  60 PSIG Fixed

FILTER BY-PASS SETTING:
  Set @ 25 PSID on Both Primary and Secondary Stage.

FILTER CART HOSES:
  12' Long Steel Wire Reinforced PVC Hoses With 3' Long Metal Wands.

FLUIDS:
  Petroleum Based (500 SUS Maximum).
  For other fluids contact factory.

WEIGHT:
  125 LBS.
  145 LBS. (Approximate Shipping Weight)

HOW TO ORDER

FLOW (GPM)  \_UPSTREAM ELEMENT\_  DOWNSTREAM ELEMENT  OPTIONS

<table>
<thead>
<tr>
<th>CODE</th>
<th>FLOW</th>
<th>H.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>5.3 GPM</td>
<td>1/2</td>
</tr>
<tr>
<td>11</td>
<td>11 GPM</td>
<td>3/4</td>
</tr>
</tbody>
</table>

*UPSTREAM FILTER ELEMENT SHOULD HAVE A LARGER RETENTION RATING THAN THE DOWNSTREAM ELEMENT

FILTER ELEMENT OPTIONS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>601M</th>
<th>603</th>
<th>603AQ</th>
<th>603M</th>
<th>606M</th>
<th>610</th>
<th>610AQ</th>
<th>612M</th>
<th>625</th>
<th>625M</th>
<th>6100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
</tr>
<tr>
<td>Mfg. Thread</td>
<td>1-1/2 -16</td>
<td>1-1/2 -16</td>
<td>1-1/2 -16</td>
<td>1-1/2 -16</td>
<td>1-1/2 -16</td>
<td>1-1/2 -16</td>
<td>1-1/2 -16</td>
<td>1-1/2 -16</td>
<td>1-1/2 -16</td>
<td>1-1/2 -16</td>
<td>1-1/2 -16</td>
</tr>
<tr>
<td>Micron Rating</td>
<td>1 ABS</td>
<td>3</td>
<td>3</td>
<td>6 ABS</td>
<td>10</td>
<td>12 ABS</td>
<td>25</td>
<td>25 ABS</td>
<td>141</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Media Sq. In.</td>
<td>115</td>
<td>1269</td>
<td>648</td>
<td>-</td>
<td>-</td>
<td>1052</td>
<td>648</td>
<td>1041</td>
<td>1227</td>
<td>1246</td>
<td>330</td>
</tr>
<tr>
<td>DHC*</td>
<td>20</td>
<td>32</td>
<td>40</td>
<td>32</td>
<td>71</td>
<td>50</td>
<td>47</td>
<td>99</td>
<td>130</td>
<td>138</td>
<td>63</td>
</tr>
<tr>
<td>WHC**</td>
<td>-</td>
<td>-</td>
<td>29</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>29</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Case Qty.</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

* Dirt Holding Capacity (grams)
** Water Holding Capacity (ounces)

PHONE: (262) 784-1700 • FAX: (262) 784-9644
Off-Line Filtration
Efficient and Economical

Kidney-Loop filtration is considered to be one of the most efficient means of hydraulic and lube oil filtration.

When filtering your oils with a Norman Filter Panel you are processing your oil at a steady slow rate allowing for optimal filtration.

By using a combination of elements, both particulate and water contaminants can efficiently be removed from petroleum based oils.

**SPECIFICATIONS**

**INDUSTRIAL GRADE GEAR PUMP:**
- NEF05: 5.3 GPM
- NEF11: 11 GPM

**ELECTRIC MOTOR:**
- NEF05: 1/2 HP @ 1725 RPM, 1.15 S.F., TEFC
- NEF11: 3/4 HP @ 1725 RPM, 1.15 S.F., TEFC

**ELECTRIC SERVICE REQUIRED:**
- 115 Volts, 10 Amps, Single Phase, 60 HZ

**POWER CORD:**
- 12’ Long Industrial Cord (14-3) With Standard 3-Prong Plug

**ON/OFF SWITCH:**
- Industrial Toggle-Operated Motor Starter Mounted in a NEMA-1 Housing with Replaceable Motor Overloads.

**PUMP RELIEF SETTING:**
- 60 PSIG Fixed.

**FILTER BY-PASS SETTING:**
- Set @ 25 PSID on Both Primary and Secondary Stage.

**FLUIDS:**
- Petroleum Based (500 SUS Maximum)
- For other fluids contact factory.

**WEIGHT:**
- 95 LBS.
- 115 LBS. (Approximate Shipping Weight)

**DIMENSIONS:**
- 32” L x 18” H x 8” W

---

**FEATURES & BENEFITS**

- 5 & 11 GPM Flow Capacities
- Two Filters:
  - Longer Filter Life
  - Two Stage Filtration
  - Clean, Easy Filter Change-Out
- Filtration Down to 1 Micron Absolute
- Water Absorbing Elements
- Industrial Quality Gear Pump
- Heavy Duty Panel with Drip Pan
- Pump Safety Relief Valve
- "Y" Strainer on Pump Inlet
- Easy to Read Pressure Gauges

---

**HOW TO ORDER**

**FLOW (GPM) - FP - CODE FLOW H.P.**

<table>
<thead>
<tr>
<th>Code</th>
<th>FLOW</th>
<th>H.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>5.3 GPM</td>
<td>1/2</td>
</tr>
<tr>
<td>11</td>
<td>11 GPM</td>
<td>3/4</td>
</tr>
</tbody>
</table>

**OPTIONS**

- N: NONE
- V: VITON O-RINGS

---

**FILTER ELEMENT OPTIONS**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>601M</th>
<th>603</th>
<th>603AQ</th>
<th>603M</th>
<th>606M</th>
<th>610</th>
<th>610AQ</th>
<th>612M</th>
<th>625</th>
<th>625M</th>
<th>6100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
<td>10.9</td>
</tr>
<tr>
<td>Mfg. Thread</td>
<td>1-1/2-16</td>
<td>1-1/2-16</td>
<td>1-1/2-16</td>
<td>1-1/2-16</td>
<td>1-1/2-16</td>
<td>1-1/2-16</td>
<td>1-1/2-16</td>
<td>1-1/2-16</td>
<td>1-1/2-16</td>
<td>1-1/2-16</td>
<td>1-1/2-16</td>
</tr>
<tr>
<td>Micron Rating</td>
<td>1 ABS</td>
<td>3</td>
<td>3</td>
<td>3 ABS</td>
<td>6 ABS</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>12 ABS</td>
<td>25</td>
<td>25 ABS</td>
</tr>
<tr>
<td>Media Sq. In.</td>
<td>1195</td>
<td>1269</td>
<td>648</td>
<td>-</td>
<td>-</td>
<td>1052</td>
<td>648</td>
<td>1041</td>
<td>1227</td>
<td>1246</td>
<td>330</td>
</tr>
<tr>
<td>OHC*</td>
<td>32</td>
<td>32</td>
<td>40</td>
<td>71</td>
<td>50</td>
<td>47</td>
<td>90</td>
<td>130</td>
<td>138</td>
<td>63</td>
<td></td>
</tr>
<tr>
<td>WHC**</td>
<td>29</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>29</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Case Qty</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

*OHC: Dirt Holding Capacity (grams)

**WHC: Water Holding Capacity (ounces)**

---

PHONE: (262) 784-1700 • FAX: (262) 784-9644
Portable Hand-Held Filtration System

The Mighty Might is a unique portable lightweight Filtration System designed for those hard to reach areas.

The new dual element design allows for two stage filtration for numerous filtration options.

With the Mighty Might heavy duty stainless steel frame, industrial grade motor & pump it is ideal for most hydraulic and lube oil applications.

HOW TO ORDER

MM4 -  

*UPSTREAM ELEMENT  DOWNSSTREAM ELEMENT

**UPSTREAM FILTER ELEMENT SHOULD HAVE A LARGER RETENTION RATING THAN THE DOWNSSTREAM ELEMENT

FILTER ELEMENT OPTIONS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>303</th>
<th>303M</th>
<th>310</th>
<th>310AQ</th>
<th>310M</th>
<th>325</th>
<th>325M</th>
<th>3100</th>
<th>403AQ</th>
<th>410</th>
<th>410M</th>
<th>425M</th>
<th>4100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>5.3</td>
<td>5.3</td>
<td>5.3</td>
<td>5.3</td>
<td>5.3</td>
<td>5.3</td>
<td>5.3</td>
<td>8.6</td>
<td>8.6</td>
<td>8.6</td>
<td>8.6</td>
<td>8.6</td>
<td>8.6</td>
</tr>
<tr>
<td>Mtg. Thread</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
<td>1-12</td>
</tr>
<tr>
<td>Micron Rating</td>
<td>3 AB</td>
<td>3 ABS</td>
<td>10</td>
<td>10</td>
<td>10 ABS</td>
<td>25</td>
<td>25 ABS</td>
<td>141</td>
<td>3</td>
<td>10</td>
<td>10 ABS</td>
<td>25 ABS</td>
<td>141</td>
</tr>
<tr>
<td>Media Sq. In.</td>
<td>611</td>
<td>679</td>
<td>550</td>
<td>175</td>
<td>600</td>
<td>560</td>
<td>580</td>
<td>91</td>
<td>309</td>
<td>947</td>
<td>860</td>
<td>930</td>
<td>160</td>
</tr>
<tr>
<td>DHC*</td>
<td>17.5</td>
<td>31</td>
<td>16</td>
<td>8.0</td>
<td>24</td>
<td>30</td>
<td>34</td>
<td>17.3</td>
<td>18</td>
<td>37</td>
<td>50</td>
<td>55</td>
<td>31</td>
</tr>
<tr>
<td>WHC**</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>8.0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>14</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Case Qty.</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

* Dirt Holding Capacity (grams)
** Water Holding Capacity (ounces)