**RATING CHART**

**MBP "SILENCER SERIES"**

**BOOSTER PUMP**

**RATED FROM 500 GPM @ 150PSI TO 1000 GPM @ 150 PSI**

**SINGLE STAGE PUMP- 8" (20.32 CM) IMPELLER**

Maximum elevation at which the pump will perform the rating with standard test conditions of 10 ft. (3 m) lift, 20 ft. (6 m) of suction hose & strainer. Standard test conditions and maximum elevation do not include truck piping losses.****

<table>
<thead>
<tr>
<th>Model</th>
<th>Hose Size</th>
<th>Feet (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBP50</td>
<td>4 IN.</td>
<td>6900 (2100)</td>
</tr>
<tr>
<td>MBP50</td>
<td>4-1/2 IN.</td>
<td>8400 (2550)</td>
</tr>
<tr>
<td>MBP75</td>
<td>5 IN.</td>
<td>5300 (1600)</td>
</tr>
<tr>
<td>MBP75</td>
<td>6 IN.</td>
<td>4800 (1450)</td>
</tr>
</tbody>
</table>

**"SILENCER SERIES" GEARBOX**

<table>
<thead>
<tr>
<th>RATED CAPACITY (US GPM)</th>
<th>500</th>
<th>750</th>
<th>1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUMP MODEL</td>
<td>MBP50-37</td>
<td>MBP50-29</td>
<td>MBP50-26</td>
</tr>
<tr>
<td>Press. (PSIG)</td>
<td>3.74</td>
<td>2.91</td>
<td>2.60</td>
</tr>
<tr>
<td>Torque (LBS-FT)</td>
<td>1170</td>
<td>750</td>
<td>530</td>
</tr>
<tr>
<td>RATIO</td>
<td>2.33</td>
<td>1.55</td>
<td>1.21</td>
</tr>
</tbody>
</table>

**INPUT DRIVE SHAFT (RPM)*

<table>
<thead>
<tr>
<th>Engine Speed (RPM)</th>
<th>300</th>
<th>250</th>
<th>200</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUMP MODEL</td>
<td>MBP50-37</td>
<td>MBP50-29</td>
<td>MBP50-26</td>
<td>MBP50-23</td>
</tr>
<tr>
<td>RPM</td>
<td>1400</td>
<td>1200</td>
<td>1000</td>
<td>800</td>
</tr>
</tbody>
</table>

* Engine speed must not exceed Mfr's maximum no-load governed speed.

** GAUGE PRESSURE DOES NOT INCLUDE LIFT OR SUCTION LOSSES.

*** THE PUMP IS CAPABLE OF THE HIGH PRESSURE PERFORMANCE SHOWN. ACTUAL OBTAINABLE PRESSURE SHOULD BE CHECKED IN ADVANCE, AND IS GOVERNED BY THE ENGINE SPEED, AVAILABLE HORSEPOWER, AND PUMP RATIO.

**** TRUCK PIPING MUST BE OPTIMAL FOR PUMP TO ACHIEVE MAXIMUM ELEVATION FIGURES LISTED ABOVE.

This chart is to be used to select the proper pump gearbox ratio. The input speed and horsepower requirements shown are nominal ±5% figures. When using this chart, it is important to obtain the net horsepower output of the engine. The engine manufacturer's published curve may not represent a true net horsepower when totaling all the power deductions that may be encountered for the rating. The deductions could be engine and vehicle accessories, elevation, temperature, barometer, etc. Check with the engine manufacturer for their recommendation and approval of the net horsepower curve.

The pumping torque requirements might exceed the truck's transmission case. Power take-off and driveline component limits. Contact the respective equipment manufacturer for their approval of the pumping application.

This chart does not take into account losses due to manifold plumbing.

Hale Products, Inc.
A Unit of IDEX Corporation
Ocala, FL 34475 USA

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## METRIC RATING CHART

**MBP "SILENCER SERIES" BOOSTER PUMP**

RATED FROM 2000 LPM @ 1000 kPa TO 3000 LPM @ 1000 kPa

**SINGLE STAGE PUMP- 20,32 CM (8") IMPELLER**

Maximum elevation at which the pump will perform the rating with standard test conditions of 3 M (10 FT) lift, 6 M (20 FT) of suction hose & strainer. Standard test conditions and maximum elevation do not include truck piping losses. ****

### Metric Rating Chart Table

<table>
<thead>
<tr>
<th>RATED CAPACITY (LPM)</th>
<th>CAPACITY PRESSURE (kPa) **</th>
<th>POWER REQUIRED (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000 LPM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000 LPM</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.74</td>
<td>2.91</td>
</tr>
<tr>
<td></td>
<td>2.60</td>
<td>2.33</td>
</tr>
</tbody>
</table>

### "SILENCER SERIES" GEARBOX

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MBP200M-37</th>
<th>MBP200M-29</th>
<th>MBP200M-26</th>
<th>MBP200M-23</th>
<th>MBP200M-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SCALE NONE**

- Engine speed must not exceed MFR's maximum no-load governed speed.
- Gauge pressure does not include lift or suction losses.
- The pump is capable of the high pressure performance shown. Actual obtainable pressure should be checked in advance, and is governed by the engine speed, available horsepower, and pump ratio.
- Truck piping must be optimal for pump to achieve maximum elevation figures listed above.

This chart is to be used to select the proper pump gearbox ratio. The input speed and horsepower requirements shown are nominal ±5% figures. When using this chart, it is important to obtain the net horsepower output of the engine. The engine manufacturer's published curve may not represent a true net horsepower when totaling all the power deductions that may be encountered for the rating. The deductions could be engine and vehicle accessories, elevation, temperature, barometer, etc. Check with the engine manufacturer for their recommendation and approval of the net horsepower curve.

The pumping torque requirements might exceed the truck's transmission case. Power take-off and driveline component limits. Contact the respective equipment manufacturer for their approval of the pumping application.

This chart does not take into account losses due to manifold plumbing.

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* Updated with new data: 11/8/2006
* Revised with new data: 8/16/2010
* Changed from 2.30 ratio to 2.33
* Added inducer to 500 and 750 ratings
* Added 3.74 ratio
* Fixed the 2.91 ratio metric torque values

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**MBP200M**

100 MM HOSE, 1900 Meters (6250 FT)

**MBP300M**

110 MM HOSE, 400 Meters (1400 FT)

**MBP200M**

110 MM HOSE, 2500 Meters (8250 FT)

**MBP300M**

125 MM HOSE, 1300 Meters (4400 FT)

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HALE PRODUCTS, INC.

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Ocala, FL 34475 USA

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**CFL3304**

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**JRP**

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**DATE**

**06-14-04**

**8/16/2010**

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**REV**

**B1**

**B2**

**C**

**D**