Screw pump
40 bar / 80 bar

OLAER Screw pump | High Performance Pump
Advantages
The Olaer types of screw pumps are dependable and economical low pressure pumps free from pulsations thus ensuring long service life and quiet operation.

Operation
These screw types of rotary pumps with axial flow have only three moving parts and can be installed in any position as well as above oil level. The secondary screws act as sealing parts and are turned hydraulically by the fluid being pumped. There is only a rolling action between the main screw and the secondary screws. The rolling action eliminates noise and vibration.

Typical applications
- Lube services (diesel engines, turbines, compressors, gears and gear boxes)
- Seal oil services (compressors, generators)
- Power Hydraulics (presses, machine tools, working machines rolling mill, injection moulding machines, dumping equipment, elevators, variable pitch propellers, hydraulic winches)
- Various and special applications for industrial and marine uses
- Food (chocolate, syrups, vegetal oils)
- Hydraulic governors
- Refinery & Petrochemical services
- Cooling
- Petroleum chemistry
- Fuel oil burners

(*) For high viscosity applications and/or oil-air emulsions, please check with us for suitable pump model.

The data shown in the catalogue can be changed without prior notice. For special applications – please contact your local OLAER office.
Combination Motor/Pumps

General
Olaer offers a complete solution with its range of motor-pumps applications, following two technologies:

Hollow shaft:
Saves space. Available with 4 poles motors 1450 / 1750 rpm.
Front flange for:
- Electric standard motor IEC

Standard shaft:
With 2 or 4 poles motor, 1450 to 2950 rpm.
ISO flange
Bellhousing coupled + flexible coupling

How to define the motor pump collection

A. Determine pump model (refer to tables on pages 6 to 9), select the speed and state the engine power.

B. Check the compatibility of the direct connection.

Direct connection flange/shaft

<table>
<thead>
<tr>
<th>Type</th>
<th>Flow (l/min)</th>
<th>Power (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR20</td>
<td>8</td>
<td>kW</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>kW</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>kW</td>
</tr>
</tbody>
</table>

The flanges in the table above are available on demand. Advantages: cost reduction, reduced assembly time, smaller dimensions.

Component description

Standard Shaft Pump

Hollow Shaft Pump
# Specifications

## Standard Shaft Pump - Dry

### SERIES SMT16B (40 BAR)

<table>
<thead>
<tr>
<th>Type</th>
<th>GR20 8-12-15-20</th>
<th>GR25 18-25-30</th>
<th>GR32 35-45-55-75</th>
<th>GR40 100-125-150</th>
<th>GR45 180-210-250</th>
<th>GR55 250-300-330-380</th>
<th>GR60 440-500</th>
<th>GR70 600-660-800</th>
<th>GR80 1000-1200</th>
<th>GR80 1500-2200</th>
<th>GR110 2300-3200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange</td>
<td>B 80</td>
<td>80</td>
<td>100</td>
<td>125</td>
<td>125</td>
<td>160</td>
<td>160</td>
<td>200</td>
<td>200</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>A 30</td>
<td>36</td>
<td>36</td>
<td>36</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>60</td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td>Shaft</td>
<td>D 14</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>32</td>
<td>32</td>
<td>32</td>
<td>32</td>
<td>38</td>
<td>55</td>
<td>55</td>
</tr>
<tr>
<td>T 16</td>
<td>21.5</td>
<td>21.5</td>
<td>21.5</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>41</td>
<td>59</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>Pressure port</td>
<td>ø A</td>
<td>6%</td>
<td>G%</td>
<td>1¼'' SAE</td>
<td>1¼'' SAE</td>
<td>2'' SAE</td>
<td>2½'' SAE</td>
<td>3'' SAE</td>
<td>3½'' SAE</td>
<td>4'' SAE</td>
<td>5'' SAE</td>
</tr>
<tr>
<td>H1</td>
<td>26</td>
<td>27</td>
<td>55</td>
<td>65</td>
<td>85</td>
<td>95</td>
<td>105</td>
<td>110</td>
<td>125</td>
<td>140</td>
<td>140</td>
</tr>
<tr>
<td>Pump</td>
<td>C</td>
<td>37</td>
<td>42</td>
<td>41</td>
<td>47</td>
<td>64.5</td>
<td>64.5</td>
<td>65.5</td>
<td>65.5</td>
<td>75</td>
<td>118</td>
</tr>
<tr>
<td>G</td>
<td>78.5</td>
<td>87</td>
<td>123</td>
<td>150</td>
<td>190</td>
<td>202.5</td>
<td>228.5</td>
<td>279</td>
<td>294.5</td>
<td>525</td>
<td>490</td>
</tr>
<tr>
<td>L1</td>
<td>53</td>
<td>70</td>
<td>62</td>
<td>69</td>
<td>75.4</td>
<td>83.5</td>
<td>83.5</td>
<td>94.5</td>
<td>150</td>
<td>256</td>
<td>287</td>
</tr>
<tr>
<td>L3</td>
<td>190</td>
<td>210</td>
<td>260</td>
<td>305</td>
<td>375</td>
<td>402.5</td>
<td>440</td>
<td>507</td>
<td>594</td>
<td>1000</td>
<td>995</td>
</tr>
<tr>
<td>Kg</td>
<td>1.5</td>
<td>2.7</td>
<td>4.4</td>
<td>7</td>
<td>11</td>
<td>15.5</td>
<td>25</td>
<td>30</td>
<td>47.5</td>
<td>95</td>
<td>120</td>
</tr>
</tbody>
</table>

The data shown in the catalogue can be changed without prior notice. For special applications - please contact your local OLAER office.

The values above are in mm and do not include fabrication tolerance.

### SERIES SMT (80 BAR)

<table>
<thead>
<tr>
<th>Type</th>
<th>GR20 8-12-15-20</th>
<th>GR25 18-25-30</th>
<th>GR32 35-45-55-75</th>
<th>GR40 100-125-150</th>
<th>GR45 180-210-250</th>
<th>GR55 250-300-330-380</th>
<th>GR60 440-500</th>
<th>GR70 600-660-800</th>
<th>GR80 1000-1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange</td>
<td>B 80</td>
<td>80</td>
<td>100</td>
<td>125</td>
<td>125</td>
<td>160</td>
<td>160</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>A 30</td>
<td>36</td>
<td>37</td>
<td>35</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Shaft</td>
<td>D 14</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>32</td>
<td>32</td>
<td>32</td>
<td>32</td>
<td>38</td>
</tr>
<tr>
<td>T 16</td>
<td>21.5</td>
<td>21.5</td>
<td>21.5</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>Pressure port</td>
<td>ø A</td>
<td>6%</td>
<td>G%</td>
<td>1¼'' SAE</td>
<td>1¼'' SAE</td>
<td>2'' SAE</td>
<td>2½'' SAE</td>
<td>3'' SAE</td>
<td>3½'' SAE</td>
</tr>
<tr>
<td>H1</td>
<td>26</td>
<td>27</td>
<td>55</td>
<td>65</td>
<td>85</td>
<td>95</td>
<td>105</td>
<td>110</td>
<td>125</td>
</tr>
<tr>
<td>Pump</td>
<td>C</td>
<td>37</td>
<td>42</td>
<td>41</td>
<td>47</td>
<td>64.5</td>
<td>64.5</td>
<td>65.5</td>
<td>65.5</td>
</tr>
<tr>
<td>G</td>
<td>78.5</td>
<td>87</td>
<td>123</td>
<td>150</td>
<td>190</td>
<td>202.5</td>
<td>228.5</td>
<td>279</td>
<td>294.5</td>
</tr>
<tr>
<td>L1</td>
<td>53</td>
<td>70</td>
<td>62</td>
<td>69</td>
<td>75.4</td>
<td>83.5</td>
<td>83.5</td>
<td>94.5</td>
<td>150</td>
</tr>
<tr>
<td>L3</td>
<td>190</td>
<td>210</td>
<td>260</td>
<td>305</td>
<td>375</td>
<td>402.5</td>
<td>440</td>
<td>507</td>
<td>594</td>
</tr>
<tr>
<td>Kg</td>
<td>1.5</td>
<td>2.7</td>
<td>4.4</td>
<td>7</td>
<td>11</td>
<td>15.5</td>
<td>25</td>
<td>30</td>
<td>47.5</td>
</tr>
</tbody>
</table>

The data shown in the catalogue can be changed without prior notice. For special applications - please contact your local OLAER office.

The values above are in mm and do not include fabrication tolerance.
## Standard Shaft Pump - Submerged

**SERIES SMIT16B (40 BAR)**

<table>
<thead>
<tr>
<th>Type</th>
<th>GR20</th>
<th>GR25</th>
<th>GR32</th>
<th>GR40</th>
<th>GR45</th>
<th>GR55</th>
<th>GR60</th>
<th>GR70</th>
<th>GR80</th>
<th>GR90</th>
<th>GR110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange</td>
<td>B</td>
<td>80</td>
<td>80</td>
<td>100</td>
<td>125</td>
<td>125</td>
<td>160</td>
<td>160</td>
<td>200</td>
<td>200</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>11</td>
<td>11</td>
<td>14</td>
<td>14</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>22</td>
<td>22</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>103</td>
<td>103</td>
<td>125</td>
<td>160</td>
<td>160</td>
<td>200</td>
<td>200</td>
<td>250</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>d1</td>
<td>125</td>
<td>125</td>
<td>150</td>
<td>188</td>
<td>188</td>
<td>235</td>
<td>235</td>
<td>300</td>
<td>300</td>
<td>350</td>
</tr>
<tr>
<td>Shaft</td>
<td>A</td>
<td>30</td>
<td>36</td>
<td>35</td>
<td>36</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>60</td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>14</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>32</td>
<td>32</td>
<td>32</td>
<td>38</td>
<td>55</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>16</td>
<td>21.5</td>
<td>21.5</td>
<td>21.5</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>41</td>
<td>59</td>
<td>59</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Suction port ø</td>
<td>A</td>
<td>G½</td>
<td>G¾</td>
<td>1¼'' SAE</td>
<td>1½'' SAE</td>
<td>2'' SAE</td>
<td>2½'' SAE</td>
<td>3'' SAE</td>
<td>3½'' SAE</td>
<td>4'' SAE</td>
<td>5'' SAE</td>
</tr>
<tr>
<td></td>
<td>H1</td>
<td>26</td>
<td>27</td>
<td>55</td>
<td>65</td>
<td>85</td>
<td>95</td>
<td>105</td>
<td>110</td>
<td>125</td>
<td>140</td>
</tr>
<tr>
<td>Pressure port ø</td>
<td>A</td>
<td>G½</td>
<td>G½</td>
<td>1'' SAE</td>
<td>1½'' SAE</td>
<td>1¾'' SAE</td>
<td>2'' SAE</td>
<td>2½'' SAE</td>
<td>3'' SAE</td>
<td>4'' SAE</td>
<td>5'' SAE</td>
</tr>
<tr>
<td></td>
<td>H2</td>
<td>25</td>
<td>27.5</td>
<td>39</td>
<td>43.5</td>
<td>51.5</td>
<td>55</td>
<td>63</td>
<td>73</td>
<td>83</td>
<td>100</td>
</tr>
<tr>
<td>Pump</td>
<td>C</td>
<td>37</td>
<td>42</td>
<td>41</td>
<td>47</td>
<td>64.5</td>
<td>64.5</td>
<td>65.5</td>
<td>75</td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>14</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>41</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>16</td>
<td>21.5</td>
<td>21.5</td>
<td>21.5</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>41</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Suction port</td>
<td>ø</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A</td>
<td>G½</td>
<td>G¾</td>
<td>1¼'' SAE</td>
<td>1½'' SAE</td>
<td>2'' SAE</td>
<td>2½'' SAE</td>
<td>3'' SAE</td>
<td>3½'' SAE</td>
<td>4'' SAE</td>
<td>5'' SAE</td>
</tr>
<tr>
<td></td>
<td>H1</td>
<td>26</td>
<td>27</td>
<td>55</td>
<td>65</td>
<td>85</td>
<td>95</td>
<td>105</td>
<td>110</td>
<td>125</td>
<td>140</td>
</tr>
<tr>
<td>Pressure port</td>
<td>ø</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A</td>
<td>G½</td>
<td>G½</td>
<td>1'' SAE</td>
<td>1½'' SAE</td>
<td>1¾'' SAE</td>
<td>2'' SAE</td>
<td>2½'' SAE</td>
<td>3'' SAE</td>
<td>4'' SAE</td>
<td>5'' SAE</td>
</tr>
<tr>
<td></td>
<td>H2</td>
<td>25</td>
<td>27.5</td>
<td>39</td>
<td>43.5</td>
<td>51.5</td>
<td>55</td>
<td>63</td>
<td>73</td>
<td>83</td>
<td>100</td>
</tr>
<tr>
<td>Pump</td>
<td>C</td>
<td>37</td>
<td>42</td>
<td>41</td>
<td>47</td>
<td>64.5</td>
<td>64.5</td>
<td>65.5</td>
<td>75</td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>14</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>41</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>16</td>
<td>21.5</td>
<td>21.5</td>
<td>21.5</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>41</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

The data shown in the catalogue can be changed without prior notice. For special applications - please contact your local OLAER office.

The values above are in mm and do not include fabrication tolerance.

## SERIES SMIT (80 BAR)

<table>
<thead>
<tr>
<th>Type</th>
<th>GR20</th>
<th>GR25</th>
<th>GR32</th>
<th>GR40</th>
<th>GR45</th>
<th>GR55</th>
<th>GR60</th>
<th>GR70</th>
<th>GR80</th>
<th>GR90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange</td>
<td>B</td>
<td>80</td>
<td>80</td>
<td>100</td>
<td>125</td>
<td>125</td>
<td>160</td>
<td>160</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>11</td>
<td>11</td>
<td>14</td>
<td>14</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>103</td>
<td>103</td>
<td>125</td>
<td>160</td>
<td>160</td>
<td>200</td>
<td>200</td>
<td>250</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>d1</td>
<td>125</td>
<td>125</td>
<td>150</td>
<td>188</td>
<td>188</td>
<td>235</td>
<td>235</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Shaft</td>
<td>A</td>
<td>30</td>
<td>36</td>
<td>35</td>
<td>36</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>60</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>14</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>32</td>
<td>32</td>
<td>32</td>
<td>38</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>16</td>
<td>21.5</td>
<td>21.5</td>
<td>21.5</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>41</td>
<td>59</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Suction port ø</td>
<td>A</td>
<td>G½</td>
<td>G¾</td>
<td>1¼'' SAE</td>
<td>1½'' SAE</td>
<td>2'' SAE</td>
<td>2½'' SAE</td>
<td>3'' SAE</td>
<td>3½'' SAE</td>
<td>4'' SAE</td>
</tr>
<tr>
<td></td>
<td>H1</td>
<td>26</td>
<td>27</td>
<td>55</td>
<td>65</td>
<td>85</td>
<td>95</td>
<td>105</td>
<td>110</td>
<td>125</td>
</tr>
<tr>
<td>Pressure port ø</td>
<td>A</td>
<td>G½</td>
<td>G½</td>
<td>1'' SAE</td>
<td>1½'' SAE</td>
<td>1¾'' SAE</td>
<td>2'' SAE</td>
<td>2½'' SAE</td>
<td>3'' SAE</td>
<td>4'' SAE</td>
</tr>
<tr>
<td></td>
<td>H2</td>
<td>25</td>
<td>27.5</td>
<td>39</td>
<td>43.5</td>
<td>51.5</td>
<td>55</td>
<td>63</td>
<td>73</td>
<td>83</td>
</tr>
<tr>
<td>Pump</td>
<td>C</td>
<td>37</td>
<td>42</td>
<td>41</td>
<td>47</td>
<td>64.5</td>
<td>64.5</td>
<td>65.5</td>
<td>75</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>14</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>41</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>16</td>
<td>21.5</td>
<td>21.5</td>
<td>21.5</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>41</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

The data shown in the catalogue can be changed without prior notice. For special applications - please contact your local OLAER office.

The values above are in mm and do not include fabrication tolerance.

OLAES | Screw pump
### Performance

**PUMP TYPES SMT16B / SMIT16B - PRESSURE 40 BAR**

<table>
<thead>
<tr>
<th>Type</th>
<th>Working pressure (bar)</th>
<th>Working pressure (bar)</th>
<th>Working pressure (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 cSt</td>
<td>68 cSt</td>
<td>400 cSt (*)</td>
</tr>
<tr>
<td></td>
<td>5  10  20  30  40</td>
<td>5  10  20  30</td>
<td>5  10  20  30</td>
</tr>
<tr>
<td>GR20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 L</td>
<td></td>
<td>10.2 10 8 6.6 4.2</td>
<td>8.9 8.6 8 6.8 4.4</td>
</tr>
<tr>
<td>kW</td>
<td>0.1 0.2 0.3 0.4 0.5</td>
<td>0.2 0.3 0.4 0.5 0.6</td>
<td>0.3 0.4 0.5 0.6 0.7</td>
</tr>
<tr>
<td>GR25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25 L</td>
<td></td>
<td>31.9 31.3 30.5 29.9</td>
<td>32.1 31.7 31.5 30.6</td>
</tr>
<tr>
<td>kW</td>
<td>0.4 0.7 1.3</td>
<td>0.7 1 1.5</td>
<td>1.1 1.4 2.6</td>
</tr>
<tr>
<td>GR32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35 L</td>
<td></td>
<td>39.2 38.2 36.8</td>
<td>40.1 39.6 38.5 37.3</td>
</tr>
<tr>
<td>kW</td>
<td>0.5 0.5 1.6</td>
<td>0.8 1.2 1.9</td>
<td>2.6 3.1 3.7</td>
</tr>
<tr>
<td>GR40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 L</td>
<td></td>
<td>112.3 109.5 105.5</td>
<td>115 113 111 109</td>
</tr>
<tr>
<td>kW</td>
<td>1.4 2.4 4.4</td>
<td>2.1 3.1 5.1 7.2</td>
<td>3.2 4.2 6.4 8.5</td>
</tr>
<tr>
<td>GR45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>180 L</td>
<td></td>
<td>193 188 181</td>
<td>198 195 191</td>
</tr>
<tr>
<td>kW</td>
<td>2.4 4.1 7.5</td>
<td>3.4 5.2 8.7</td>
<td>6.2 7 10.7 14.4</td>
</tr>
<tr>
<td>GR55</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>250 L</td>
<td></td>
<td>293 288 281</td>
<td>299 291 285</td>
</tr>
<tr>
<td>kW</td>
<td>3.4 6 11.2</td>
<td>4.9 7.5 12.8</td>
<td>8.7 10 15.5</td>
</tr>
<tr>
<td>GR60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>440 L</td>
<td></td>
<td>499 492 483</td>
<td>500 493 485</td>
</tr>
<tr>
<td>kW</td>
<td>4.9 8.5 15.9</td>
<td>6.9 10.7 18.2</td>
<td>25.7 30 42.1</td>
</tr>
<tr>
<td>GR70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600 L</td>
<td></td>
<td>416 409 398</td>
<td>419 414 405</td>
</tr>
<tr>
<td>kW</td>
<td>4.7 8.5 15.9</td>
<td>6.9 10.7 18.2</td>
<td>30 42.1 54.5</td>
</tr>
<tr>
<td>GR80</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000 L</td>
<td></td>
<td>499 492 483</td>
<td>500 493 485</td>
</tr>
<tr>
<td>kW</td>
<td>5.7 10 18.8</td>
<td>8.1 12.6 21.5</td>
<td>30 42.1 54.5</td>
</tr>
<tr>
<td>GR90</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1500 L</td>
<td></td>
<td>499 492 483</td>
<td>500 493 485</td>
</tr>
<tr>
<td>kW</td>
<td>6.4 11.2 20.9</td>
<td>9 14 24 34</td>
<td>13.4 18.5 29 39</td>
</tr>
<tr>
<td>GR10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000 L</td>
<td></td>
<td>499 492 483</td>
<td>500 493 485</td>
</tr>
<tr>
<td>kW</td>
<td>7.4 13.8 24.5</td>
<td>11 17 28 42</td>
<td>22 33 42 56</td>
</tr>
<tr>
<td>GR11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2500 L</td>
<td></td>
<td>499 492 483</td>
<td>500 493 485</td>
</tr>
<tr>
<td>kW</td>
<td>8.4 16.8 31.2</td>
<td>12 20 32 49</td>
<td>30 42.1 54.5</td>
</tr>
<tr>
<td>GR15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000 L</td>
<td></td>
<td>499 492 483</td>
<td>500 493 485</td>
</tr>
<tr>
<td>kW</td>
<td>9.4 18.8 35.3</td>
<td>13 22 38 56</td>
<td>43 60 84 120</td>
</tr>
<tr>
<td>GR20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4000 L</td>
<td></td>
<td>499 492 483</td>
<td>500 493 485</td>
</tr>
<tr>
<td>kW</td>
<td>10.4 20.4 40.8</td>
<td>15 29 52 84</td>
<td>56 84 120 186</td>
</tr>
<tr>
<td>**</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### PUMP TYPES SMT16B / SMIT16B - PRESSURE 40 BAR

<table>
<thead>
<tr>
<th>Type</th>
<th>Working pressure (bar)</th>
<th>Working pressure (bar)</th>
<th>Working pressure (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>68 cSt</td>
<td>68 cSt</td>
<td>68 cSt</td>
</tr>
<tr>
<td></td>
<td>400 cSt (*)</td>
<td>400 cSt (*)</td>
<td>400 cSt (*)</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>68 cSt</td>
<td>68 cSt</td>
<td>68 cSt</td>
</tr>
<tr>
<td></td>
<td>400 cSt (*)</td>
<td>400 cSt (*)</td>
<td>400 cSt (*)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>6 cSt</th>
<th>88 cSt</th>
<th>400 cSt (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>13L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>15L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>20L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>25L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>30L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>35L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>40L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>50L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>60L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>80L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>100L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>120L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>6 cSt</th>
<th>88 cSt</th>
<th>400 cSt (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>13L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>15L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>20L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>25L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>30L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>35L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>40L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>50L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>60L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>80L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>100L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
<tr>
<td>120L</td>
<td>4.8</td>
<td>4.8</td>
<td>4.8</td>
</tr>
</tbody>
</table>

For special applications high viscosity and/or oil-air emulsions.
**Pump must be over-busted. Please contact your local OLAER office.**

* For special applications, high viscosity and/or oil-air emulsions

<table>
<thead>
<tr>
<th>Type</th>
<th>6 cSt</th>
<th>68 cSt</th>
<th>400 cSt (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Working pressure (bar)</td>
<td>Working pressure (bar)</td>
<td>Working pressure (bar)</td>
</tr>
<tr>
<td>GR20</td>
<td>10</td>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>8 L</td>
<td>kW</td>
<td>l/min</td>
<td>kW</td>
</tr>
<tr>
<td>GR25</td>
<td>10</td>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>8 L</td>
<td>kW</td>
<td>l/min</td>
<td>kW</td>
</tr>
<tr>
<td>GR40</td>
<td>10</td>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>8 L</td>
<td>kW</td>
<td>l/min</td>
<td>kW</td>
</tr>
<tr>
<td>GR55</td>
<td>10</td>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>8 L</td>
<td>kW</td>
<td>l/min</td>
<td>kW</td>
</tr>
</tbody>
</table>

The data shown in the catalogue can be changed without prior notice.

* For special applications, high viscosity and/or oil-air emulsions - please contact your local OLAER office.

**Pump must be over-busted. Please contact your local OLAER office.
## PUMP TYPES SMT16B / SMIT16B - PRESSURE 80 BAR

<table>
<thead>
<tr>
<th>Type</th>
<th>6 cSt Working pressure (bar)</th>
<th>68 cSt Working pressure (bar)</th>
<th>400 cSt (*) Working pressure (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>GR20</td>
<td>25 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>30 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>45 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>75 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR40</td>
<td>100 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>125 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR55</td>
<td>250 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>300 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>330 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR80</td>
<td>1000 L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1200 L</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The data shown in the catalogue can be changed without prior notice.

* For special applications, high viscosity and/or oil-air emulsions - please contact your local OLAER office.
# How to order

**KEY FOR SMT16B / SMIT16B (40 BAR)**

<table>
<thead>
<tr>
<th>GR55</th>
<th>SMT16B</th>
<th>250L</th>
<th>S1</th>
<th>AC28/B5</th>
<th>G</th>
<th>HD</th>
<th>TM</th>
<th>V</th>
<th>RF1</th>
<th>AX</th>
<th>SX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5/6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td><strong>Pump type</strong></td>
<td><strong>Nominal flow (l/min 2950 rpm)</strong></td>
<td><strong>High Viscosity flag (1)</strong></td>
<td><strong>Hollow shaft type / flange type (omit for normal shaft)</strong></td>
<td><strong>Pump housing</strong></td>
<td><strong>Screws treatment</strong></td>
<td><strong>Seals type</strong></td>
<td><strong>Shaft seal</strong></td>
<td><strong>Internal pressure relief valve</strong></td>
<td><strong>Suction flange</strong></td>
<td><strong>Rotation</strong></td>
<td></td>
</tr>
<tr>
<td>GR20</td>
<td>Dry or submerged</td>
<td>8</td>
<td>12</td>
<td>15</td>
<td>20</td>
<td>Standard (100 cSt)</td>
<td>Standard aluminium</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
<td>right</td>
</tr>
<tr>
<td>GR25</td>
<td>25</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR32</td>
<td>35</td>
<td>45</td>
<td>55</td>
<td>75</td>
<td>Motor shaft</td>
<td>G Cast Iron</td>
<td>HA</td>
<td>Core hardened steel screws</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR40</td>
<td>SMT16B dry</td>
<td>80</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td>Motor shaft</td>
<td>AC9</td>
<td>AC11</td>
<td>AC14</td>
<td>AC19</td>
<td>AC24</td>
</tr>
<tr>
<td>GR45</td>
<td>SMT16B submerged</td>
<td>180</td>
<td>210</td>
<td></td>
<td></td>
<td>Motor type B5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR55</td>
<td></td>
<td>250</td>
<td>300</td>
<td>330</td>
<td>380</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR60</td>
<td></td>
<td>440</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR70</td>
<td></td>
<td>600</td>
<td>660</td>
<td>800</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR80</td>
<td></td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR90</td>
<td></td>
<td>1500</td>
<td>1700</td>
<td>2000</td>
<td>2200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR110</td>
<td></td>
<td>2300</td>
<td>2500</td>
<td>2800</td>
<td>3200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) This option reduces the pump efficiency
(2) Available for GR20 to GR70 types
(3) RP is not available on GR20, GR 25, GR 80, GR 90 and GR 110

**Applications**

<table>
<thead>
<tr>
<th></th>
<th>High Viscosity Screws</th>
<th>Housing Material</th>
<th>Screw Material</th>
<th>Seals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling (water and glycol)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filtration system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubricating gear boxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluid transfer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power hydraulics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*) in combination with standard material

www.olaer.com
### Key for SMT / SMIT (80 Bar)

<table>
<thead>
<tr>
<th>GR55</th>
<th>SMT</th>
<th>250L</th>
<th>SN</th>
<th>AC28/B5</th>
<th>G</th>
<th>HD</th>
<th>TM</th>
<th>V</th>
<th>RF1</th>
<th>AX</th>
<th>SX</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5/6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>Pump type</td>
<td>Dry or submerged</td>
<td>Nominal flow (l/min 2950 rpm)</td>
<td>High Viscosity flag (1)</td>
<td>Hollow shaft type / flange type (omit for normal shaft)</td>
<td>Pump housing</td>
<td>Screws treatment</td>
<td>Seal type</td>
<td>Shaft seal</td>
<td>Internal pressure relief valve</td>
<td>Suction flange</td>
<td>Rotation</td>
</tr>
<tr>
<td>GR20</td>
<td></td>
<td>8</td>
<td>12</td>
<td>15</td>
<td>20</td>
<td>Standard (up to 100 cSt)</td>
<td>Standard aluminium</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard NBR</td>
<td>Standard</td>
</tr>
<tr>
<td>GR25</td>
<td></td>
<td>25</td>
<td>30</td>
<td></td>
<td></td>
<td>SN (1) (+ 100 cSt)</td>
<td>Motor shaft</td>
<td>G Cast Iron</td>
<td>HA</td>
<td>Core hardened steel screws</td>
<td>TM</td>
</tr>
<tr>
<td>GR32</td>
<td></td>
<td>35</td>
<td>45</td>
<td>55</td>
<td>75</td>
<td></td>
<td>A Carbon steel (18NiCrMo5)</td>
<td>HD</td>
<td>Surface treated</td>
<td>V</td>
<td>FKM</td>
</tr>
<tr>
<td>GR40</td>
<td>SMT Dry</td>
<td>100</td>
<td>125</td>
<td>150</td>
<td></td>
<td>(&gt; 100 cSt)</td>
<td>Motor type</td>
<td>B5</td>
<td></td>
<td>K (2)</td>
<td>Hardened steel</td>
</tr>
<tr>
<td>GR45</td>
<td>SMIT Submerged</td>
<td>180</td>
<td>210</td>
<td></td>
<td></td>
<td></td>
<td>Motor type</td>
<td>B14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR55</td>
<td></td>
<td>250</td>
<td>300</td>
<td>330</td>
<td>380</td>
<td></td>
<td>Motor type</td>
<td>K (2)</td>
<td>Hardened steel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR60</td>
<td></td>
<td>440</td>
<td>500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR70</td>
<td></td>
<td>600</td>
<td>660</td>
<td>800</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GR80</td>
<td></td>
<td>1000</td>
<td>1200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) This option reduces the pump efficiency
(2) Available for GR20 to GR70 types
(3) RP not available for GR20, GR25, GR80, GR90 and GR110

### Applications

<table>
<thead>
<tr>
<th>Applications</th>
<th>High Viscosity Screws</th>
<th>Housing Material</th>
<th>Screw Material</th>
<th>Seals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel Injection</td>
<td>*</td>
<td>G</td>
<td>HA</td>
<td>TM</td>
</tr>
<tr>
<td>Oil &amp; Gas Marine</td>
<td>*</td>
<td>G</td>
<td>HA</td>
<td>TM</td>
</tr>
<tr>
<td>Heavy Fuel Transfer</td>
<td>SN</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Multipliers</td>
<td>SN</td>
<td>(g)</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Compressor Lubrication</td>
<td>SN</td>
<td>(g)</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Generators</td>
<td>SN</td>
<td>(g)</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Oil &amp; Gas Industries</td>
<td>SN</td>
<td>(g)</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Turbines</td>
<td>SN</td>
<td>(g)</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Lubrication of bearings</td>
<td>SN</td>
<td>(g)</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Power Hydraulics</td>
<td>*</td>
<td>G/K</td>
<td>HA</td>
<td>TM</td>
</tr>
<tr>
<td>Machine Tools</td>
<td>*</td>
<td>G/K</td>
<td>HA</td>
<td>TM</td>
</tr>
</tbody>
</table>

*The Professional Choice*
Global perspective

and local entrepreneurial flair

Olaer is a global player specialising in innovative, efficient system solutions for temperature optimisation and energy storage. Olaer develops, manufactures and markets products and systems for a number of different sectors, e.g. the aircraft, engineering, steel and mining industries, as well as for sectors such as oil and gas, contracting and transport, farming and forestry, renewable energy, etc.

All over the world, our products operate in the most diverse environments and applications. One constantly repeated demand in the market is for optimal energy storage and temperature optimisation. We work at a local level with a whole world as our workplace – local entrepreneurial flair and a global perspective go hand in hand.

Our local presence, long experience and a wealth of knowledge combine with our cutting-edge expertise to give you the best possible conditions for making a professional choice.