GROUP 1P – P3000 SERIES

PERFORMANCE DATA

Pressures quoted are relief valve maximum by-pass
Performance with SAE 20W oil at 50° C

<table>
<thead>
<tr>
<th>PUMP TYPE</th>
<th>Nominal Displacement</th>
<th>Nominal Delivery @ 1500 rpm &amp; Pressure P</th>
<th>Maximum Continuous Pressure P</th>
<th>Speed at Maximum Continuous Pressure P</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>cc/rev</td>
<td>lpm</td>
<td>psi</td>
<td>bar</td>
</tr>
<tr>
<td>3017</td>
<td>5.13</td>
<td>7.70</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3020</td>
<td>6.07</td>
<td>9.10</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3028</td>
<td>8.47</td>
<td>12.70</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3036</td>
<td>10.93</td>
<td>16.40</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3044</td>
<td>13.33</td>
<td>20.00</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3052</td>
<td>15.73</td>
<td>23.60</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3060</td>
<td>18.20</td>
<td>27.30</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3072</td>
<td>21.80</td>
<td>32.70</td>
<td>2525</td>
<td>174</td>
</tr>
<tr>
<td>3090</td>
<td>27.27</td>
<td>40.90</td>
<td>2000</td>
<td>138</td>
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</tbody>
</table>

TYPICAL PERFORMANCE

TYPICAL PUMP DELIVERY
Flow at Max. Pressure.

TYPICAL INPUT HORSEPOWER
Fluid SAE 20W
Fluid Temperature 50° C
1P SERIES

INSTALLATION DIMENSIONS

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.

<table>
<thead>
<tr>
<th>PUMP TYPE</th>
<th>DIM-X</th>
<th>DIM-Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P-3090</td>
<td>63.3</td>
<td>127.7</td>
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<tr>
<td>1P-3072</td>
<td>60.0</td>
<td>121.0</td>
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<tr>
<td>1P-3060</td>
<td>57.7</td>
<td>116.4</td>
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<tr>
<td>1P-3052</td>
<td>56.2</td>
<td>113.3</td>
</tr>
<tr>
<td>1P-3044</td>
<td>54.6</td>
<td>110.3</td>
</tr>
<tr>
<td>1P-3036</td>
<td>45.6</td>
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<td>1P-3028</td>
<td>44.1</td>
<td>89.1</td>
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<td>1P-3020</td>
<td>42.5</td>
<td>86.1</td>
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<td>1P-3018</td>
<td>41.9</td>
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<td>1P-3017</td>
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<td>1P-3013</td>
<td>41.2</td>
<td>83.5</td>
</tr>
<tr>
<td>PUMP TYPE</td>
<td>DIM-X</td>
<td>DIM-Y</td>
</tr>
</tbody>
</table>
1P SERIES

DRIVE SHAFT

CODE - U

CODE - P

All dimensions are in mm unless specified.
1P SERIES

DRIVE SHAFT

CODE - T

WOODRUFF KEY

-0.025

KEY WIDTH 3.18

BS:46-405

PER INCH ON DIA 0.125" (1:8)

Ø16.66 GAUGE BASIC TAPER.

CODE - K

WOODRUFF KEY

-0.025

KEY WIDTH 3.0

3x6.5 DIN 6888

M12x1.5

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.
1P SERIES

DRIVE SHAFT

CODE - D

B17x14(DIN-5482)
9 TEETH, 1.6 MODULE
PRESSURE ANGLE 30ø

CODE - L SAE - A

3.99 WIDE KEY.
BS: 46-505: 1958

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.
1P SERIES

DRIVE SHAFT

CODE - S

SAE SPLINE,
FLAT ROOT SIDE FIT.
9 TEETH 16/32 DP.
CLASS 1 FIT.

CODE - G

SAE SPLINE,
FLAT ROOT SIDE FIT.
11 TEETH 16/32 DP.
CLASS 1 FIT.
MOUNTING FLANGE

2-BOLT SAE  CODE - S
Available with shaft code P,T,K,G and S

4-BOLT  CODE - D
Available with shaft code P,T,K,G and S

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.
MOUNTING FLANGE

2 BOLT SAE-AA CODE - A

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.
MOUNTING FLANGE

2-BOLT SAE CODE - S
Available with shaft code P,T,K,G and S

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.
1P SERIES

BODY PORT

CODE - T

1/2"-BSP FOR PUMP TYPES 1P3017 TO 3028
3/4"-BSP FOR PUMP TYPES 1P3036 TO 3090

CODE - F

INLET & OUTLET PORTS ARE IDENTICAL.
Ø H=17.3 PUMP TYPES 1P3017 TO 3036
Ø H=20.3 PUMP TYPES 1P3044 TO 3090

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.

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1P SERIES

BODY PORT

CODE - A

1/2"-BSP FOR PUMP TYPES 1P3017 TO 3028
3/4"-BSP FOR PUMP TYPES 1P3036 TO 3090

CODE - B

30.5
30.5

INLET & OUTLET PORTS ARE IDENTICAL.

Ø H=17.3 PUMP TYPES 1P3017 TO 3036
Ø H=20.3 PUMP TYPES 1P3044 TO 3090

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.
1P SERIES

BODY PORT

CODE - J
SAE O-RING THREADED PORTS.

1-1/16"-12 UN FOR PUMP TYPES 1P3017 TO 3036
1-5/16"-12 UN FOR PUMP TYPES 1P3044 TO 3090

CODE - S
SAE O-RING THREADED PORTS.

1-1/16"-12 UN FOR PUMP TYPES 1P3017 TO 3036
1-5/16"-12 UN FOR PUMP TYPES 1P3044 TO 3090

22 FULL THREAD
4HOLES 3/8"-16UNC

4HOLES 1/2"-18UNC
24 FULL THREAD

38.1

017.3

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.
1P SERIES

END COVER
CODE - B

RELIEF VALVE CODE-R
MOUNTED INPLACE OF END COVER

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.