Vane motor
high performance hydraulic
series M5AF - M5AF1
Model No. M5AF - 018 - 1 N 02 - A 1 - M 3 -

Series External drain *
Series Internal drain *

Displacement
Volumetric displacement (in³/rev.)

006 = .38
010 = .61
012 = .76
016 = .98
018 = 1.10
025 = 1.52

Type of shaft
1 = taper (non SAE)
2 = keyed (non SAE)

Direction of rotation (view on shaft end) - M5AF - M5AF1
R = Clockwise
L = Counter-clockwise

Direction of rotation (view on shaft end) - M5AF
N = Bi-rotational

Porting combination (view on shaft end)

ROTATION = BI-ROTATIONAL (N)

View from shaft end:
CW rotation
A = inlet
B = outlet

CCW rotation
A = outlet
B = inlet

OVERALL LEAKAGE (internal + external)

Lp. Noise level [db(A)] 1 m ISO 4412

Torque T [in.lbs]

Axial load Fa [Lbs]

PERMISSIBLE AXIAL AND RADIAL LOADS

Pressure p [PSI]

Axial load Fa [Lbs]

Radial load Fr [Lbs]

Overall leakage q_s [GPM]

Pressure p [PSI]

Lp. Noise level [db(A)] 1 m ISO 4412

Torque T [in.lbs]

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Pressure p [PSI]

Lp. Noise level [db(A)] 1 m ISO 4412

Torque T [in.lbs]

Overall leakage q_s [GPM]

Pressure p [PSI]
DIMENSIONS - Weight : 33 lbs - M5AF - M5AF1 SERIES

View A

PERFORMANCES : PRESSURE & SPEED

<table>
<thead>
<tr>
<th>Displacement</th>
<th>006</th>
<th>010</th>
<th>012</th>
<th>016</th>
<th>018</th>
<th>025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure max (PSI)</td>
<td>4350</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4060</td>
</tr>
<tr>
<td>Speed max (RPM)</td>
<td>4000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2500</td>
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</tbody>
</table>

MINIMUM REPLENISHMENT PRESSURE (BAR ABSOLUTE AT THE B PORT) for M5AF with an internal check valve *

<table>
<thead>
<tr>
<th>Flow (GPM)</th>
<th>1.32</th>
<th>2.64</th>
<th>5.28</th>
<th>7.93</th>
<th>10.57</th>
<th>13.21</th>
<th>15.85</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini pressure (PSI)</td>
<td>18.87</td>
<td>26.12</td>
<td>36.28</td>
<td>43.54</td>
<td>60.96</td>
<td>89.98</td>
<td>130.62</td>
</tr>
</tbody>
</table>

* 15.85 GPM is the maximum flow allowed through the internal check valve.
** This torque is for a steel coupling and a nut of at least grade 8.8 quality. It is compulsory to install a castle nut and cotter pin for right-hand rotation - bi-rotational.