Series 26 Model 26000
GEAR PUMPS

Quiet Operation
Improved Efficiency
Field Reversible

MacMILLIN
**Quiet Operation**
- The 13-tooth gears, versus 10 teeth in previous pumps, minimizes the flow ripple. This reduces noise as well as vibration.
- The improved trap reliefs not only increase power, they also help keep oil flowing smoothly to reduce noise.

**Improved Efficiency**
- Improved bearing lubrication system uses inlet oil instead of high pressure oil, improving volumetric efficiency for more power output.
- The super polished shaft and gears improve mechanical efficiency and reduce wear on these components, adding to the service life and reliability of the pump.
- The optimized trapped oil relief areas help reduce pressure ripple for quieter operation. This also decreases the input power requirements.

**Field Reversible**
- The innovative new wear plate permits simple field reversibility of the pump direction. Simply open the pump, switch the drive gear and idler gear, reposition the plug and reassemble. No extra parts are needed.

**Interchangeability**
- The Series 26 Gear Pump has been designed to retrofit equipment using the B1 and B2 Gear Pumps. Extra shafts, porting, and mounting configurations, as well as 13 available displacements, give you the choices you need for an easy conversion to this superior pump.

**General Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotation</td>
<td>Field Reversible</td>
</tr>
<tr>
<td>Mounting Flange</td>
<td>SAE 2 Bolt A</td>
</tr>
<tr>
<td>Max. Continuous Pressure†</td>
<td>207 bar (3000 PSI)*</td>
</tr>
<tr>
<td>Max. Intermittent Pressure††</td>
<td>241 bar (3500 PSI)**</td>
</tr>
<tr>
<td>Min. Speed at Cont. Pressure</td>
<td>750 RPM</td>
</tr>
<tr>
<td>Max. Rotating Torque at 0 Pressure</td>
<td>4 Nm (36 lb-in)</td>
</tr>
<tr>
<td>Max. Continuous Inlet Temperature</td>
<td>107°C (225°F)</td>
</tr>
<tr>
<td>Min. Operating Temperature</td>
<td>-29°C (-20°F)</td>
</tr>
<tr>
<td>Max. Inlet Vacuum at Operating Condition</td>
<td>6.0 In. Hg</td>
</tr>
</tbody>
</table>

† Continuous - pump may be run continuously at these ratings.
†† Intermittent - intermittent operation, 10% of every minute.
* 30.6 cm³/rev. (1.87 in³/rev.) displacement max. continuous pressure is 190 bar (2750 PSI).
** 30.6 cm³/rev. (1.87 in³/rev.) displacement max. intermittent pressure is 224 bar (3250 PSI).
Performance Data

Displacement cm³/r (in³/r)
5.1 (0.31) 6.6 (0.40) 8.2 (0.50) 9.5 (0.58) 10.8 (0.66) 13.8 (0.84) 16.7 (1.02) 19.7 (1.20)

Max. Intermittent Pressure bar (PSI)
241 (3500) 241 (3500) 241 (3500) 241 (3500) 241 (3500) 241 (3500) 241 (3500) 241 (3500)

Rated Speed (RPM)
3600 3600 3600 3600 3600 3600 3200 3200

Output Flow at 207 bar (3000 PSI) and Rated Speed LPM (GPM)
18.2 (4.8) 24.3 (6.4) 29.6 (7.8) 35.0 (9.2) 39.0 (10.3) 50.5 (13.3) 54.7 (14.4) 61.9 (16.3)

Input Power at Rated Speed and Cont. Pressure kW (HP)
8.7 (11.6) 9.7 (13.0) 11.9 (15.9) 14.1 (18.9) 15.5 (20.8) 20.0 (26.8) 22.0 (29.4) 26.2 (35.2)

Note: Performance Data was collected using a mineral base oil with a viscosity of 133 SUS at 49°C (120°F)

Example: 260** - * Z *

Gear pump with 1.37 displacement, right hand rotation, 3/4" keyed shaft, rear ported SAE #16 inlet, #10 outlet.

26008 - R Z D

Displacements
14 = 0.31 C.I.R.
01 = 0.40 C.I.R.
02 = 0.50 C.I.R.
03 = 0.58 C.I.R.
04 = 0.66 C.I.R.
05 = 0.84 C.I.R.
06 = 1.02 C.I.R.
07 = 1.20 C.I.R.
08 = 1.37 C.I.R.
09 = 1.48 C.I.R.
10 = 1.54 C.I.R.
11 = 1.69 C.I.R.
12 = 1.77 C.I.R.
13 = 1.87 C.I.R.
15 = 2.14 C.I.R.

Rotation
R = Right Hand
L = Left Hand

Shaft and Port Combination
A = 3/4" 11T Spline Shaft w/ Side Ports SAE #16 Inlet, #10 Outlet
B = 3/4" 11T Spline Shaft w/ Rear Ports SAE #16 Inlet, #10 Outlet
C = 3/4" Keyed Shaft w/ Side Ports SAE #16 Inlet, #10 Outlet
D = 3/4" Keyed Shaft w/ Rear Ports SAE #16 Inlet, #10 Outlet
E = *5/8" 9T Spline Shaft w/ Side Ports SAE #16 Inlet, #10 Outlet
F = *5/8" 9T Spline Shaft w/ Rear Ports SAE #16 Inlet, #10 Outlet
G = **5/8" Keyed Shaft w/ Side Ports SAE #12 Inlet, #10 Outlet
H = **5/8" Keyed Shaft w/ Rear Ports SAE #12 Inlet, #10 Outlet
J = *5/8" 9T Spline Shaft w/ Side Ports SAE #12 Inlet, #10 Outlet
K = *5/8" 9T Spline Shaft w/ Rear Ports SAE #12 Inlet, #10 Outlet

Notes:
The SAE #12 Inlet Port (G - K) is recommended for use with pump sizes 07 and smaller only.
* 5/8 9T Spline has maximum allowable input torque of 62Nm (550 lb-in)
** 5/8 Keyed Shaft has maximum allowable input torque of 56Nm (500 lb-in)
**Dimensions**

All dimensions given in mm (in.)

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* Suction Port – SAE #16 (1-5/16 - 12) or #12 (1-1/16 - 12)
* Pressure Port – SAE #10 (7/8 - 14)

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**NOTE:** Series 26 Gear Pump components can be assembled into many optional configurations to meet your specific needs. Common configurations include:
- Double OR triple pump units with common OR isolated suction.
Eaton gear pumps are at the heart of most MacMillin systems. As hydraulic specialists, we design and build power units and Circuit Blok® manifolds to individual system requirements and physical needs.

At MacMillin we prove every power unit and circuitry we build. We set pressure and flow, and test for valve performance. Parts and service is readily available on all system components and accessories.

Adhesive mixer is powered by this hydrostatic variable drive power unit with top mounted reservoir and filter package. System includes remote control panel.

Power unit features a tandem fixed displacement pump with two pressure controls. The two circuits are independent so each pump section can be unloaded with its own solenoid valve.

Vertically mounted power units are used in applications such as lubricating systems, broaching machines and vertical conveyors.

MacMillin is an Eaton Authorized Service Center.
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<table>
<thead>
<tr>
<th>Distributor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>CYLINDERS: NFPA STANDARD, MODIFIED INDUSTRIAL &amp; MOBIL WELDED AGRICULTURE</td>
</tr>
<tr>
<td></td>
<td>ASAE INTERCHANGEABLE</td>
</tr>
<tr>
<td><strong>American Industrial</strong></td>
<td>FILTERS, SUCTION STRAINERS, PRESSURE GAUGES, SIGHT GAUGES, HYDRAULIC FITTING</td>
</tr>
<tr>
<td></td>
<td>ADAPTERS</td>
</tr>
<tr>
<td><strong>Heat Exchangers</strong></td>
<td>HEAT EXCHANGERS</td>
</tr>
<tr>
<td></td>
<td>WATER &amp; AIR COOLED</td>
</tr>
<tr>
<td><strong>Auburn Gear</strong></td>
<td>PLANETARY GEAR DRIVES</td>
</tr>
<tr>
<td></td>
<td>POWER WHEELS</td>
</tr>
<tr>
<td><strong>Brandy Hydraulics</strong></td>
<td>MANUAL DIRECTIONAL, FLOW CONTROLS, VALVES</td>
</tr>
<tr>
<td></td>
<td>PRIORITY DIVIDERS</td>
</tr>
<tr>
<td><strong>Char-Lynn</strong></td>
<td>MOTORS: LOW SPEED, HIGH TORQUE</td>
</tr>
<tr>
<td><strong>Eaton</strong></td>
<td>STEERING UNITS, VALVES</td>
</tr>
<tr>
<td></td>
<td>EATON CESSNA PUMPS &amp; MOTORS</td>
</tr>
<tr>
<td><strong>FMIC</strong></td>
<td>FILTERS, CHECK VALVES, BALL VALVES, PRESSURE GAUGES, FLANGES,</td>
</tr>
<tr>
<td></td>
<td>FLOW CONTROL VALVES</td>
</tr>
<tr>
<td><strong>J &amp; P</strong></td>
<td>DAMAN PRODUCTS</td>
</tr>
<tr>
<td></td>
<td>VALVE MANIFOLDS</td>
</tr>
<tr>
<td><strong>Dynex/Rivett</strong></td>
<td>PISTON PUMPS, MOTORS, DIRECTIONAL, PRESSURE &amp; PROPORTIONAL CONTROL VALVES</td>
</tr>
<tr>
<td><strong>Hartmann</strong></td>
<td>AXIAL PISTON PUMPS</td>
</tr>
<tr>
<td></td>
<td>ROLL-VANE MOTORS</td>
</tr>
<tr>
<td><strong>Heco</strong></td>
<td>PLANETARY SPEED REDUCERS</td>
</tr>
<tr>
<td><strong>Hedland</strong></td>
<td>FLOW METERS</td>
</tr>
<tr>
<td><strong>Hydro-Craft</strong></td>
<td>HYDRAULIC RESEVOIRS AND ACCESSORIES</td>
</tr>
</tbody>
</table>

**Hydraulic Hose Assemblies:** Made to Order

**MacMillin Power Units:** From 1/4 to 200 Horsepower Custom Designed to Fit Your Needs & Deliveries

**MacMillin Pump/Motor Mounts:** From Fractional to 200 HP NEMA Frame Motors to SAE Pump Flanges

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