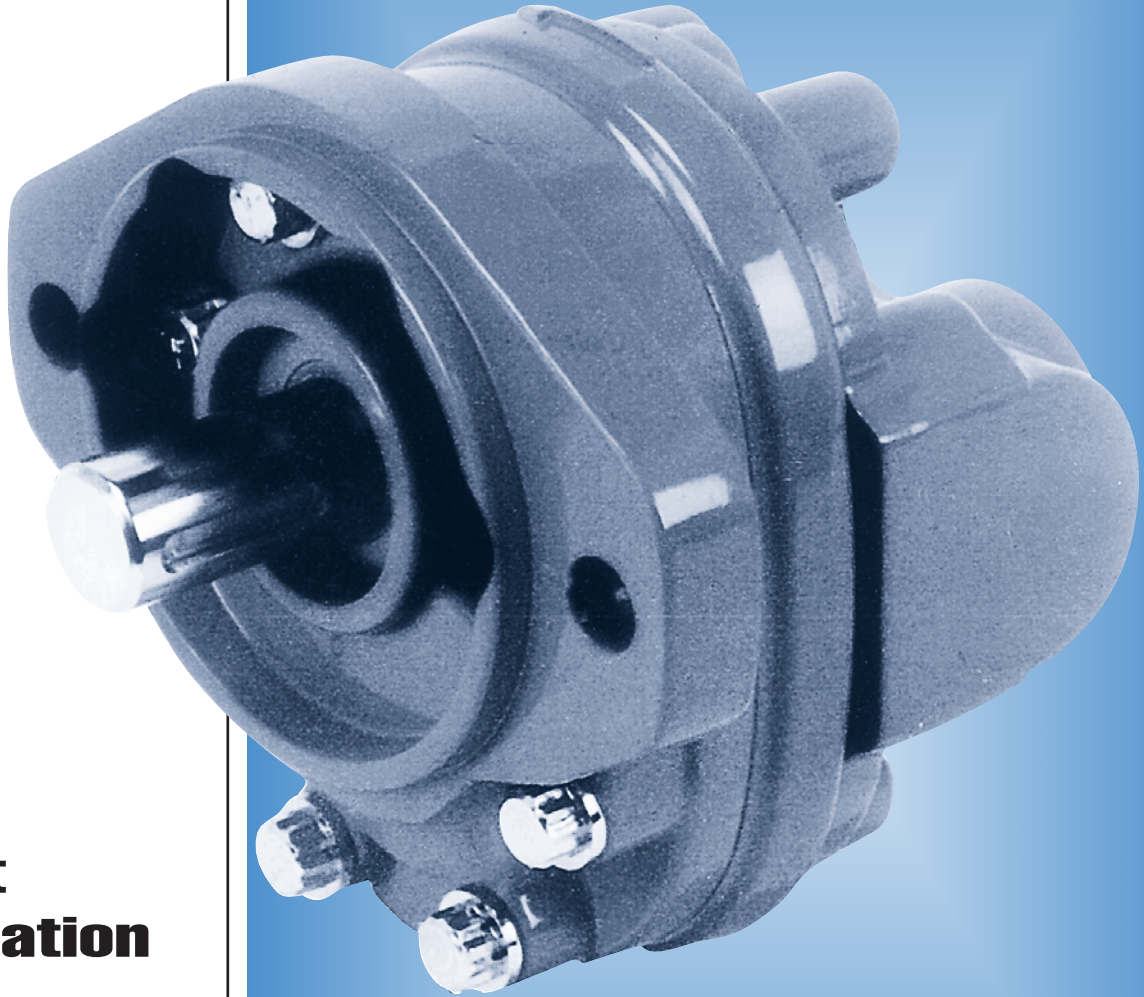




Series 26 Model 26000
GEAR PUMPS



**Quiet
Operation**

**Improved
Efficiency**

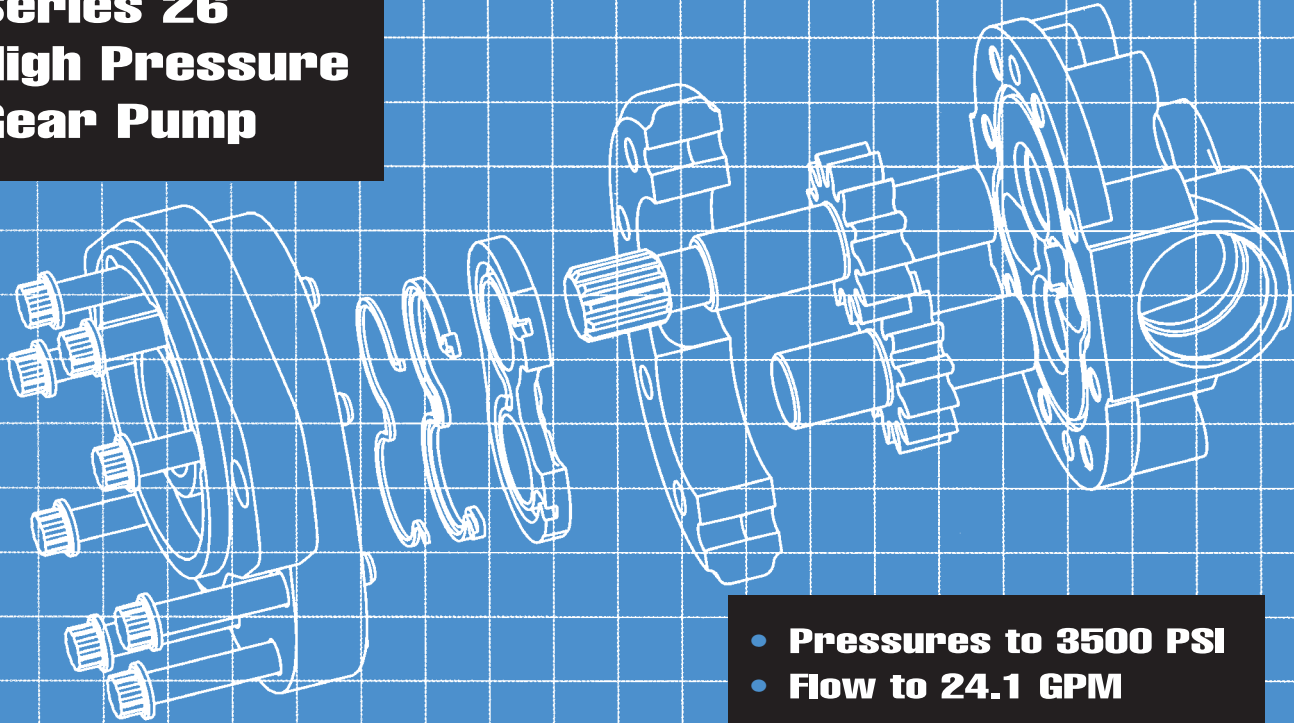
**Field
Reversible**

MACMILLIN

MACMILLIN

Series 26 High Pressure Gear Pump

GEAR PUMPS



- Pressures to 3500 PSI
- Flow to 24.1 GPM

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

Rotation Field Reversible
Mounting Flange SAE 2 Bolt A
Max. Continuous Pressure† 207 bar (3000 PSI)*
Max. Intermittent Pressure†† 241 bar (3500 PSI)**
Min. Speed at Cont. Pressure 750 RPM

Max. Rotating Torque at 0 Pressure 4 Nm (36 lb-in)
Max. Continuous Inlet Temperature 107°C (225°F)
Min. Operating Temperature -29°C (-20°F)
Max. Inlet Vacuum at Operating
Condition 6.0 In. Hg

† 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 cm ³ /r (in ³ /r) | 5,1 (.31) | 6,6 (.40) | 8,2 (.50) | 9,5 (.58) | 10,8 (.66) | 13,8 (.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)

| | | | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Displacement cm ³ /r (in ³ /r) | 22,5 (1.37) | 24,3 (1.48) | 25,2 (1.54) | 27,7 (1.69) | 29,0 (1.77) | 30,6 (1.87) | 35,1 (2.14) |
| Max. Intermittent Pressure bar (PSI) | 241 (3500) | 241 (3500) | 241 (3500) | 241 (3500) | 234 (3400) | 224 (3250) | 200 (2900) |
| Rated Speed (RPM) | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2750 |
| Output Flow at 207 bar (3000 PSI) and Rated Speed LPM (GPM) | 66,6 (17.5) | 73,0 (19.2) | 76,0 (20.0) | 83,6 (22.0) | 87,4 (23.0) | 91,6 (24.1) | 95,5 (25.5) |
| Input Power at Rated Speed and Cont. Pressure kW (HP) | 27,3 (36.6) | 30,5 (40.9) | 31,0 (41.6) | 33,4 (44.8) | 35,4 (47.4) | 37,4 (50.1) | 37,8 (50.7) |

How to Order MacMillin Gear Pumps

260** - * Z *

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

Example: Part Number 26008 - R Z D

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

Notes:

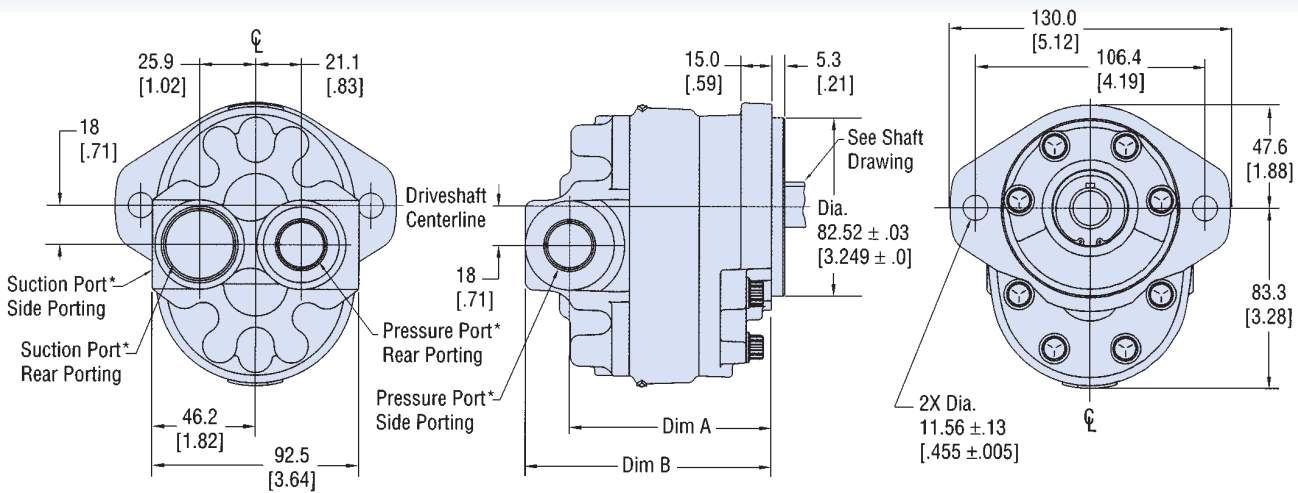
The SAE #12 Inlet Port (G - K) is recommended for use with pump sizes 07 and smaller only.

* 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.)



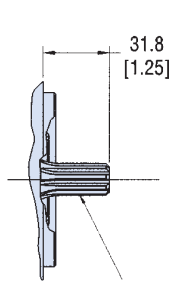
Left Hand Rotation Shown

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

| Model | 26001 | 26002 | 26003 | 26004 | 26005 | 26006 | 26007 |
|--|-------------|-------------|-------------|-------------|--------------|--------------|--------------|
| Displacement (cm ³ /r [in ³ /r]) | 6.6 [.40] | 8.2 [.50] | 9.5 [.58] | 10.8 [.66] | 13.8 [.84] | 16.7 [1.02] | 19.7 [1.20] |
| Dimension A (mm [in.]) | 72.6 [2.86] | 74.3 [2.93] | 75.9 [2.99] | 77.5 [3.05] | 80.7 [3.18] | 83.9 [3.30] | 87.1 [3.43] |
| Dimension B (mm [in.]) | 93.2 [3.67] | 94.9 [3.74] | 96.5 [3.80] | 98.1 [3.86] | 101.3 [3.99] | 104.5 [4.11] | 107.7 [4.24] |

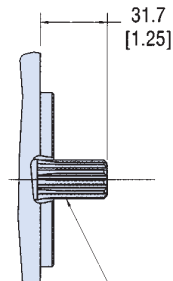
| Model | 26008 | 26009 | 26010 | 26011 | 26012 | 26013 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| Displacement (cm ³ /r [in ³ /r]) | 22.5 [1.37] | 24.3 [1.48] | 25.2 [1.54] | 27.7 [1.69] | 29.0 [1.77] | 30.6 [1.87] |
| Dimension A (mm [in.]) | 90.3 [3.56] | 92.7 [3.65] | 93.5 [3.68] | 96.7 [3.81] | 98.6 [3.88] | 99.9 [3.93] |
| Dimension B (mm [in.]) | 110.9 [4.37] | 113.3 [4.46] | 114.1 [4.49] | 117.3 [4.62] | 119.1 [4.69] | 120.5 [4.74] |

5/8 Inch 9 Tooth Spline
 Maximum Input Torque
 62 Nm [550 lb-in]



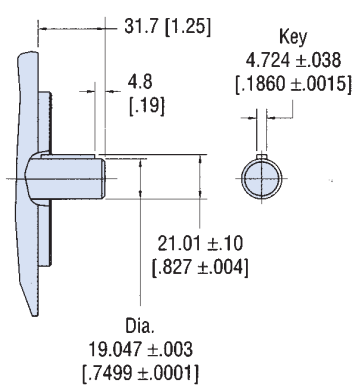
9 Tooth 16/32 DP 30°
 Involute Flat Root Class 1
 Side Fit Spline SAE J498b
 22.4 [.88] Min Full Spline

3/4 Inch 11 Tooth Spline
 Maximum Input Torque
 119 Nm [1050 lb-in]



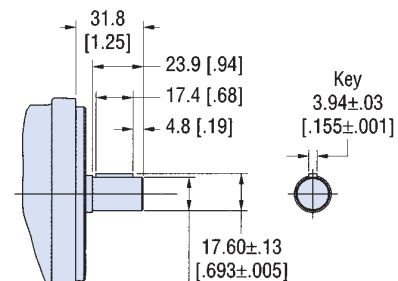
11 Tooth 16/32 DP 30°
 Involute Flat Root Class 1
 Side Fit Spline SAE J498b
 22.2 [.88] Full Depth

3/4 Inch Straight Key
 Maximum Input Torque
 113 Nm [1000 lb-in]



Key
 4.724 ± .038
 [.1860 ± .0015]
 Dia.
 19.047 ± .003
 [.7499 ± .0001]

5/8 Inch Straight Key
 Maximum Input Torque
 56 Nm [500 lb-in]



Key
 3.94 ± .03
 [.155 ± .001]
 Dia.
 15.85 ± .03
 [.624 ± .001]

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.
- Backplates with an integrated “Relief”, “Flow Divider”, or “Relief & Flow Divider” combination.

MacMillin is an
Eaton Authorized
Service Center.

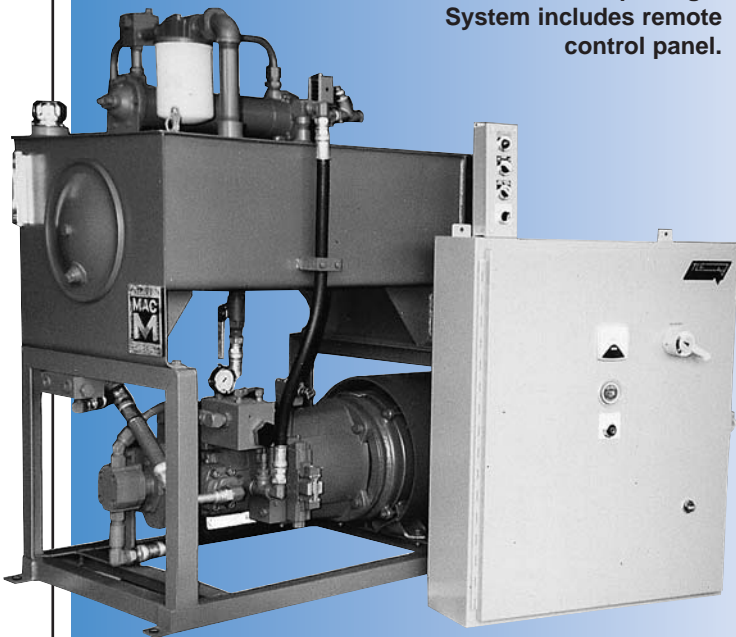


Power Units and Circuit Blok[®] Manifolds

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.

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| | | | |
|---|---|--|---|
|  | CYLINDERS: NFPA STANDARD, MODIFIED INDUSTRIAL & MOBIL WELDED AGRICULTURE ASAE INTERCHANGEABLE |  | FILTERS, SUCTION STRAINERS PRESSURE GAUGES, SIGHT GAUGES HYDRAULIC FITTING ADAPTERS |
|  | HEAT EXCHANGERS WATER & AIR COOLED |  | NEMA ELECTRIC MOTORS 1/3 TO 200 HORSEPOWER |
|  | PLANETARY GEAR DRIVES POWER WHEELS |  | COUPLINGS, LIGHT TO HEAVY DUTY INDUSTRIAL JAW TYPE |
|  | MANUAL DIRECTIONAL, FLOW CONTROLS, VALVES PRIORITY DIVIDERS |  | PUMP / MOTOR ADAPTERS |
|  | MOTORS: LOW SPEED, HIGH TORQUE STEERING UNITS, VALVES EATON CESSNA PUMPS & MOTORS |  | PRESSURE GAUGES, NEEDLE VALVES & THERMOMETERS |
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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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HYDRAULIC
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