When you need a low-flow pump that delivers high performance in a small package, Series GB is an excellent option. Series GB gear pumps provide precise, pulseless flow, and features Micropump’s suction shoe design. The suction shoe self-compensates for wear, ensuring near zero slip and long pump life. This pump, standard with an electromagnetic EagleDrive™, provides a highly efficient, compact pumping package that easily integrates into your design.

**PERFORMANCE SUMMARY**

<table>
<thead>
<tr>
<th>MAX RATED DIFFERENTIAL PRESSURE</th>
<th>MAX RATED SYSTEM PRESSURE</th>
<th>VISCOSITY RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.7 Bar (125 psi)</td>
<td>21 Bar (300 psi)</td>
<td>0.5 to 1500 cps</td>
</tr>
<tr>
<td>MAX FLOW RATE (5500 RPM)</td>
<td>TEMPERATURE RANGE</td>
<td></td>
</tr>
<tr>
<td>6.4 L/min (1.7 US gpm)</td>
<td>-29 to 120°C (-20 to 248°F)</td>
<td></td>
</tr>
</tbody>
</table>

**HIGH PERFORMANCE OPERATION**

- Positive displacement, precision gears for smooth pulseless fluid delivery
- Suction shoe style pumps for improved efficiencies when pumping at higher pressures
- Electromagnetic drive, with low inertia and high torque, for fast response times
- Automotive grade electrical components for high temperature operation (up to 120°C) and durability

**LONG LIFE**

- Precisely designed and manufactured gears stand the test of rugged duty
- Chemically resistant construction materials stand up to chemically aggressive fluids
- Electromagnetic drive means fewer moving parts
- Series GB pumps are easy to service using a Micropump service kit and simple hand tools

**FLUID PATH INTEGRITY**

- The magnetic drive eliminates dynamic shaft seals, keeping the fluid in and contaminants out

**EASY DESIGN INTEGRATION**

- Series GB pump and EagleDrive provides a compact package, enabling easy integration into system designs
- Supports wide range of power supply voltages (10-38V)
- Error signals for easy error detection and diagnosis
PUMP CONSTRUCTION

- Magnetic drive gear pump
- Suction shoe style
- Two or three helical gears
- Stationary shafts
- O-ring seal

WETTED MATERIALS

BASE MATERIAL
- 316 stainless steel

GEARS
- PEEK
- PPS

STATIC SEALS
- TEV
- FKM

MAGNETS

DRIVEN
- Rare earth

DRIVING
- Electromagnet

DIMENSIONS

*Units: mm(in). Nominal dimensions shown

PUMP PERFORMANCE

Power Supply Voltage = 24 VDC

Water @ 1 cp

**GB-P23-DEELE Performance**

FLOW RATE NOMINAL: 550 mL/min (@ 4.3 Bar, 3V)
FLOW RATE MAX: 1430 mL/min (@ 0 Bar, 5V)
DISPLACEMENT: 0.26 mL/rev

**GB-P25-DEELE Performance**

FLOW RATE NOMINAL: 1000 mL/min (@ 2.8 Bar, 3V)
FLOW RATE MAX: 3190 mL/min (@ 0 Bar, 5V)
DISPLACEMENT: 0.58 mL/rev

**GB-P35-DEELE Performance**

FLOW RATE NOMINAL: 2700 mL/min (@ 1.4 Bar, 3V)
FLOW RATE MAX: 6435 mL/min (@ 0 Bar, 5V)
DISPLACEMENT: 1.17 mL/rev

DRIVE SPECIFICATIONS FOR EAGLEDRIVE™ DEELE

SPEED
- 1000 to 8000 rpm (36V)
- 500 to 5500 rpm (24V)
- 250 to 2650 rpm (12V)

SPEED (AT RATED TORQUE)
- 3750 rpm @ 20 oz-in (24V)

CURRENT AT RATED TORQUE
- 2.9A @ 20 oz-in (24V)

POWER SUPPLY
- 10V to 38V DC

TEMPERATURE RANGE
- -40 to 120 °C (-40 to 248 °F)

*ACTUAL PERFORMANCE MAY VARY. Specifications are subject to change without notice. ©2016 Micropump, Inc., A Unit of IDEX Corporation. Micropump and the Micropump logo are registered trademarks of Micropump, Inc.*