Series GJ pumps deliver exceptional pumping performance for any high-precision application. These compact magnetically driven gear pumps feature a cavity style design for smooth pulseless fluid delivery. The magnetic drive eliminates leak points associated with dynamic shaft seals, while providing energy-efficient fluid delivery. This pump, standard with an electromagnetic EagleDrive™, provides a highly efficient, compact pumping package that easily integrates into your system design.

**PERFORMANCE SUMMARY**

| MAX RATED DIFFERENTIAL PRESSURE | 5.6 Bar (80 psi) |
| MAX FLOW RATE (5500 RPM) | 6.8 L/min (1.79 US gpm) |
| MAX RATED SYSTEM PRESSURE | 21 Bar (300 psi) |
| TEMPERATURE RANGE | -40 to 77°C (-40 to 171°F) |
| VISCOSITY RANGE | 0.5 to 1500 cps |

**HIGH PERFORMANCE OPERATION**

- Positive displacement, precision gears for smooth pulseless fluid delivery
- Electromagnetic drive, with low inertia and high torque, for fast response times
- Cavity Style pumps are excellent for wide-ranging inlet and outlet operating conditions, and allow for intermittent reverse operation

**FLUID PATH INTEGRITY**

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

**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 GJ pumps are easy to service using a Micropump service kit and simple hand tools

**EASY DESIGN INTEGRATION**

- Series GJ 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
**Series GJ**

**MAGNETIC DRIVE GEAR PUMP N21 & N23**

**EAGLEDRIVE™**

**PUMP PERFORMANCE**

Power Supply Voltage = 24 VDC

Water @ 1cps

- Speed control = 5V
- Speed control = 3V
- Power Supply Current

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**GJ-N21-DEMSE Performance**

- **FLOW RATE NOMINAL:** 600 mL/min (@ 2.8 Bar, 3V)
- **FLOW RATE MAX:** 1760 mL/min (@ 0 Bar, 5V)
- **DISPLACEMENT:** 0.32 mL/rev

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**GJ-N23-DEMSE Performance**

- **FLOW RATE NOMINAL:** 900 mL/min (@ 2.8 Bar, 3V)
- **FLOW RATE MAX:** 3520 mL/min (@ 0 Bar, 5V)
- **DISPLACEMENT:** 0.64 mL/rev

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**DIMENSIONS**

*Units: mm(in). Nominal dimensions shown*
**Series GJ**  
MAGNETIC DRIVE GEAR PUMP N25 & N27  
EAGLEDRIVE™

**PUMP PERFORMANCE**  
Power Supply Voltage = 24 VDC  
Water @ 1 cps

- **Speed control = 5V**  
- **Speed control = 3V**  
- **Power Supply Current**

**GJ-N25-DEELE Performance**

FLOW RATE NOMINAL: 1000 mL/min (@ 2.8 Bar, 3V)  
FLOW RATE MAX: 5005 mL/min (@ 0 Bar, 5V)  
DISPLACEMENT: 0.91 mL/rev

**GJ-N27-DEELE Performance**

FLOW RATE NOMINAL: 2700 mL/min (@ 1.7 Bar, 3V)  
FLOW RATE MAX: 6765 mL/min (@ 0 Bar, 5V)  
DISPLACEMENT: 1.23 mL/rev

**DIMENSIONS**

- Units: mm(in).
- Nominal dimensions shown

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*Image of a magnetic drive gear pump with measurements and diagrams.*
DRIVE SPECIFICATIONS - EAGLEDRIVE™

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

SPEED (AT RATED TORQUE)
- 3750 rpm @10 oz-in (24V) (DEMSE)
- 3750 rpm @20 oz-in (24V) (DEELE)

CURRENT AT RATED TORQUE
- 2A @10 oz-in (24V) (DEMSE)
- 2.9A @20 oz-in (24V) (DEELE)

POWER SUPPLY
- 10V to 38V DC

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

Note: Series GJ come standard with an EagleDrive™ but mounting brackets are available for use with other drives.

PUMP CONSTRUCTION
- Magnetic drive gear pump
- Cavity style
- Two helical, shafted gears
- Sleeve bushings
- PTFE bevel or o-ring seal

WETTED MATERIALS
- BASE MATERIAL: 316 stainless steel
- GEARS: PEEK, PPS, PTFE
- STATIC SEALS: PTFE

MAGNETS
- DRIVEN: Rare earth
- DRIVING: Electromagnet