The newly improved GJR Series is your severe duty solution. From inception, the GJR has set the standard.

Abrasive fluids, such as pigmented paints and inks or metal loaded fluids, often cause significant pump wear, impacting pumping functionality and dramatically shortening pump life.

Micropump’s GJR Series pumps use leading materials and design processes to deliver exceptional pump performance and reliability in challenging fluid applications.

**ABRASIVE RESISTANCE**
The GJR Series is your severe duty pump of choice. Designed specifically to deliver long-life performance in aggressive environments.

**UNBEATABLE PERFORMANCE**
Solid carbide gear material withstands even higher differential pressures.

**PREMIUM MATERIALS**
316 Stainless Steel with ultimate durability coating.

**EAGLEDRIIVE**
Electromagnetic drive that provides a highly efficient, compact package.

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**ELECTROMAGNETIC DRIVE FEATURES**

**EASY DESIGN INTEGRATION**
Supports wide range of power supply voltages (10-38V). Error signals for easy error detection and diagnosis.

**HIGH PERFORMANCE**
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**
Electromagnetic drive means fewer moving parts.
GJR SERIES EAGLEDRI\textsuperscript{TM}TE
N21 & N23 DEMSE

GJR-N21 DEMSE

GJR-N23 DEMSE

DEMSE DRIVE SPECIFICATIONS

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

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

CURRENT (AT RATED TORQUE)
- 2A @10 oz-in (24V)

POWER SUPPLY
- 10V to 38V DC

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

GJR-N21-DEMSE Performance

FLOW RATE NOMINAL: 500 mL/min (@ 2.8 Bar, 3V)
FLOW RATE MAX: 1760 mL/min (@ 0 Bar, 5V)
DISPLACEMENT: 0.316 mL/rev

GJR-N23-DEMSE Performance

FLOW RATE NOMINAL: 700 mL/min (@ 2.8 Bar, 3V)
FLOW RATE MAX: 3520 mL/min (@ 0 Bar, 5V)
DISPLACEMENT: 0.64 mL/rev
GJR SERIES EAGLEDRI®
N27 DEELE

DEELE DRIVE SPECIFICATIONS

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

PERFORMANCE

Power Supply Voltage = 24VDC
Water @ 1 cps

FLOW RATE NOMINAL: 2450 mL/min (@ 1.7 Bar, 3V)
FLOW RATE MAX: 6765 mL/min (@ 0 Bar, 5V)
DISPLACEMENT: 1.23 mL/rev
GJR SERIES PERFORMANCE SUMMARY

PUMP PERFORMANCE

DISPLACEMENT
- Gear Set: N21, N23, N27
- mL/rev: 0.316, 0.64, 1.23
- US gal/1000 rev: 0.08, 0.17, 0.32

MAXIMUM RATED DIFFERENTIAL PRESSURE
- 5.5 Bar | 80 psi

MAXIMUM RATED SYSTEM PRESSURE
- 21 Bar | 300 psi

FLOW RATE AT 4000 RPM
- 4.92 L/min (1.30 US gpm)

VISCOSITY RANGE
- 0.5 to 1500 cps

MAXIMUM SPEED
- 5500 rpm

PUMP CONSTRUCTION

- Cavity style
- Spur gears
- 316 stainless steel
- Solid Nickel Carbide

STATIC SEALS
- PTFE
- PTFE/ Viton*
- PTFE/ EP*

MAGNETS

DRIVEN
- Ferrite
- Rare earth*

DRIVING
- Electromagnetic

*Denotes customization or materials that may require minimum order quantities.