GJR SERIES
EAGLEDRIVE™

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.

MAGNETIC DRIVE PUMP

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.

EAGLEDRIVE
Electromagnetic drive that provides a highly efficient, compact package.

ELECTROMAGNETIC DRIVE FEATURES

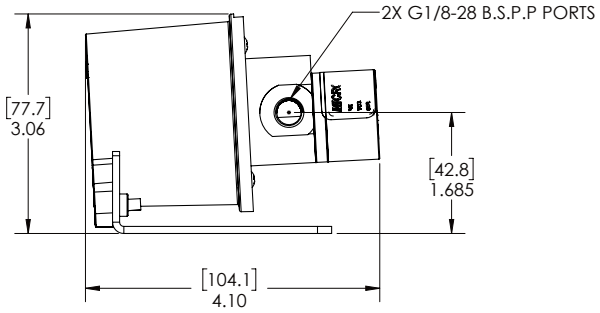
EASY DESIGN INTEGRATION
Supports wide range of power supply voltages (10-38V).
Error signals for easy error detection and diagnosis.

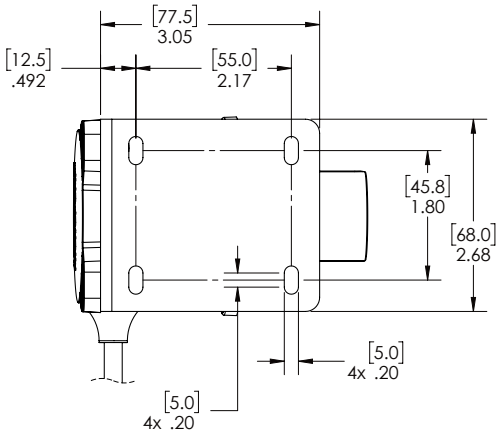
HIGH PERFORMANCE
Electromagnetic drive, with low inertia and high torque, for fast response times
Automotive grade electrical components for high temperature operation (up to 120°C) and durability.

LONG LIFE
Electromagnetic drive means fewer moving parts.

GJR SERIES EAGLEDRIVE™
N21 & N23 DEMSE

GJR-N21 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

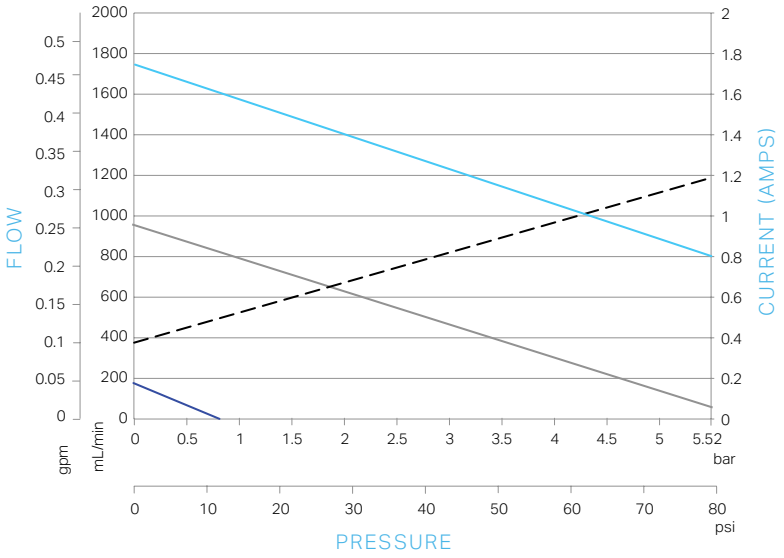
TEMPERATURE RANGE
- -40 to 120 °C | -40 to 248 °F

PERFORMANCE

Power Supply Voltage = 24 VDC
Water @ 1cps

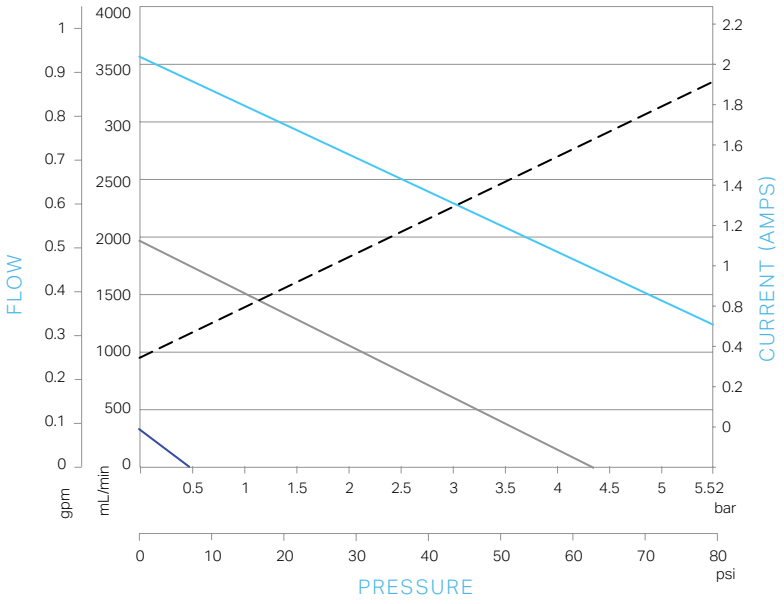
Speed control = 5V
Speed control = 3V
Speed control = 1V
Power Supply Current

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

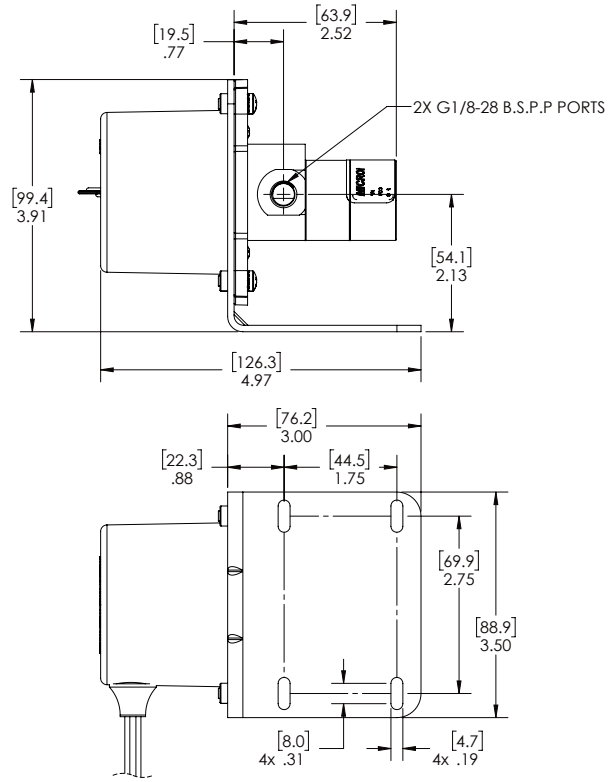
GJR-N23-DEMSE Performance



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 EAGLEDRIVE™
N27 DEELE

GJR-N27 DEELE

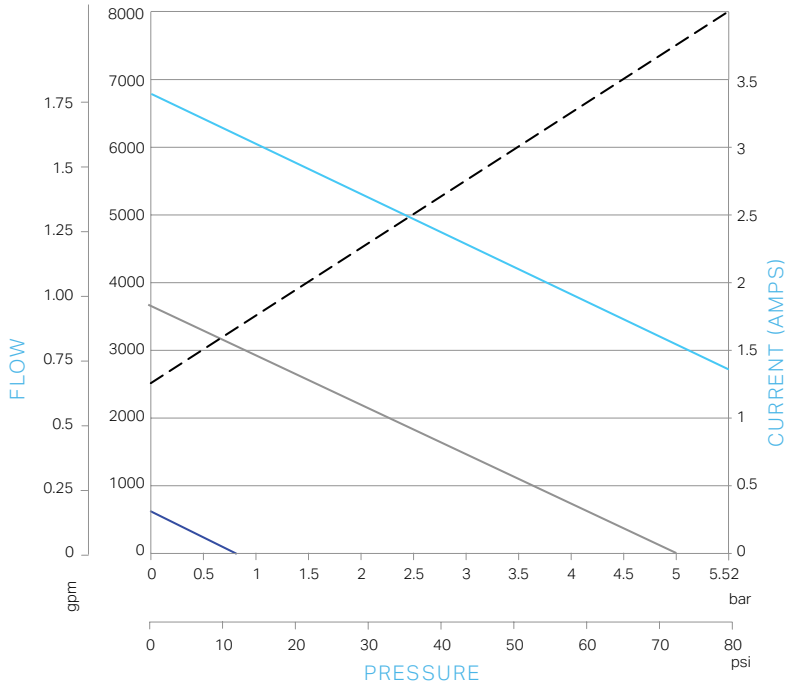


PERFORMANCE

Power Supply Voltage = 24 VDC
Water @ 1cps

Speed control = 5V
Speed control = 3V
Speed control = 1V
Power Supply Current

GJR-N27-DEELE Performance



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

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

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/ TEV*
- PTFE/ EP*

MAGNETS

DRIVEN

- Ferrite
- Rare earth*

DRIVING

- Electromagnetic

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