

# GJ SERIES EAGLEDRIVE™

The GJ Series pumps are the smallest, most compact size and offers the lowest displacement of our cavity style family of pumps.

These magnetically driven gear pumps have provided solutions for customers applications for more than 60 years. Our cavity style gear pumps feature no dynamic seals for applications that cannot tolerate leaks.

#### **SMALL SIZE**

The miniature package size of the GJ Series is easily incorporated into the design of many systems.

#### **DISPLACEMENT OPTIONS**

The GJ Series offers the most gear set options, so you can choose the displacement necessary for your application.

#### REVERSE PUMPING CAPABILITY

Micropump cavity style gear pumps can be designed for applications with the need for intermittent reverse pumping.

#### **LEAK FREE**

Micropump's design utilizes static seals for leak free, contamination free operation.

#### MAGNETIC DRIVE PUMP

# 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.

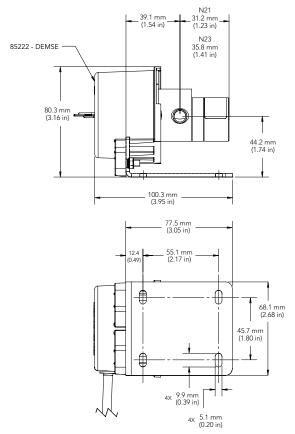


# GJ SERIES EAGLEDRIVE™

### 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

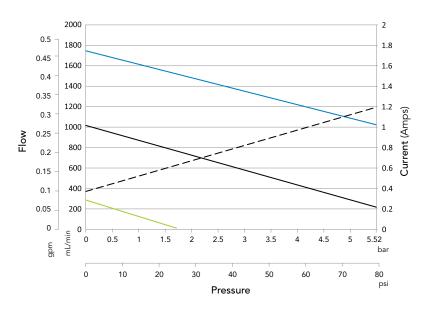
-40 to 120 °C | -40 to 248 °F

#### **PERFORMANCE**

Power Supply Voltage = 24 VDC Water @ 1cps



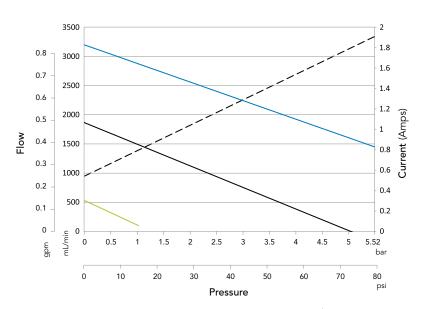
#### **GJ-N21-DEMSE Performance**



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

**DISPLACEMENT:** 0.32 mL/rev

#### **GJ-N23-DEMSE Performance**



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

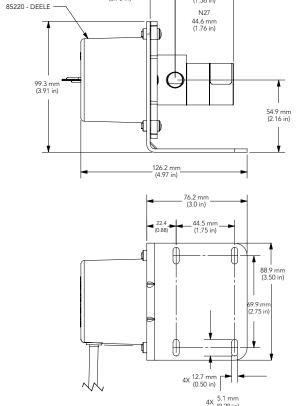
**DISPLACEMENT:** 0.64 mL/rev

# GJ SERIES EAGLEDRIVE™

### N25 & N27 DEELE



**GJR-N27 DEELE** 



N25 39.6 mm (1.56 in)

#### DEELE DRIVE SPECIFICATION 0.20

#### 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

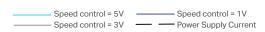
■ 10V to 38V DC

#### TEMPERATURE RANGE

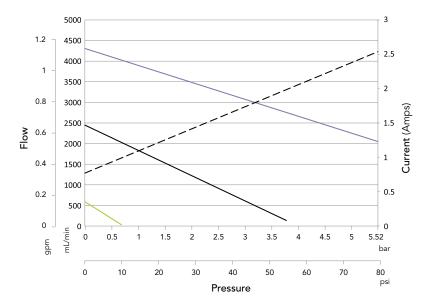
-40 to 120 °C | -40 to 248 °F

#### **PERFORMANCE**

Power Supply Voltage = 24 VDC Water @ 1cps



#### **GJ-N25-DEELE Performance**

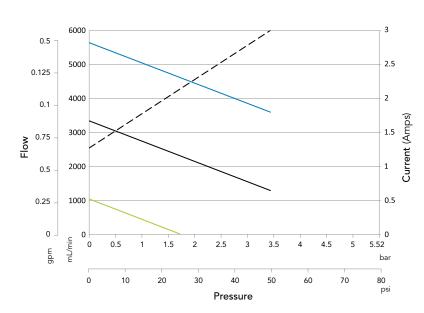


FLOW RATE NOMINAL: 1000mL/min (@ 2.8 Bar, 3V)

**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

## GJ SERIES PERFORMANCE SUMMARY

#### PUMP PERFORMANCE

#### DISPLACEMENT

Gear Set
M21
M23
M25
M27
M27
M28
M29
M29
M29
M20
M21
M23
M25
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#### MAXIMUM RATED DIFFERENTIAL PRESSURE

5.6 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
- Side Port
- Two helical, shafted gears
- Sleeve bushings
- PTFE bevel or o-ring seal

#### WETTED MATERIALS

#### BASE MATERIAL

- 316 stainless steel
- Alloy 20\*

■ Titanium\*

■ PEEK\*

■ Hastalloy C-276\*

#### **GEARS**

- PTFE
- PPS\*

### STATIC SEALS

- PTFE
- Viton\*

- PTFE / Viton\*
- PTFE/EP\*

#### **MAGNETS**

#### DRIVEN

- Ferrite
- Rare earth\*

#### DRIVING

Electromagnetic

<sup>\*</sup>Denotes customization or materials that may require minimum order quantities.