



GB SERIES EAGLEDRIVE™

When you need a low-flow pump that delivers high performance in a small package, the GB Series is an excellent solution.

The GB Series is part of the patented suction shoe gear pump design offered exclusively by Micropump. The suction shoe technology offers best in class performance with industry-leading volumetric efficiency for fluid movement.

MAGNETIC DRIVE GEAR PUMP

RELIABILITY

GB Series pumps self-compensate for wear, ensuring near zero slip and a longer pump life. The suction shoe technology delivers even longer reliability with higher differential pressures when compared to cavity style designs.

WIDE TEMPERATURE RANGE

Micropump's GB Series features the same hydraulic performance from the lowest temperature, even freezing, to the highest temperature allowed by the component materials.

WIDE RANGE OF CONFIGURATIONS

GB Series can be customized to meet your applications including the optional internal bypass.

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.

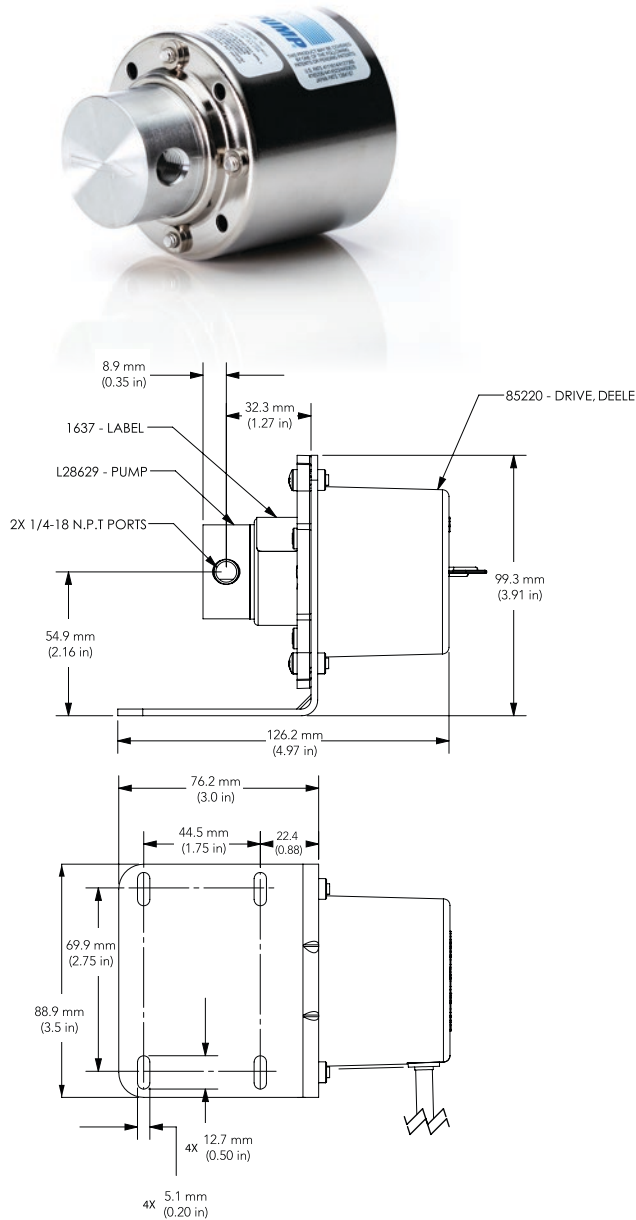
GB SERIES EAGLEDRIVE™

GB-P23-DEELE & GB-P25-DEELE

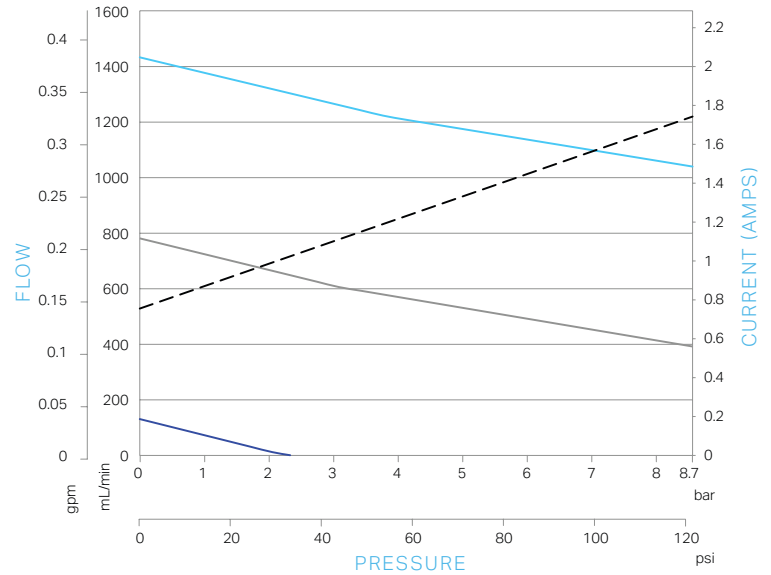
PERFORMANCE

Power Supply Voltage = 24 VDC
Water @ 1cps

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



GB-P23-DEELE Performance

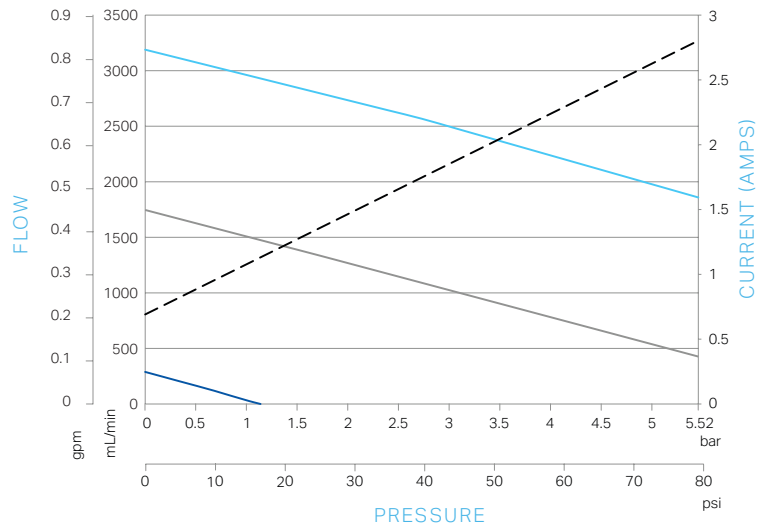


FLOW RATE NOMINAL: 550 mL/min (@ 4.3 Bar, 3V)

FLOW RATE MAX: 1430mL/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

DRIVE SPECIFICATIONS FOR EAGLEDRIVE™ DEELE

- 1000 to 8000 rpm (36V)
- 500 to 5500 rpm (24V)
- 250 to 2660 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.

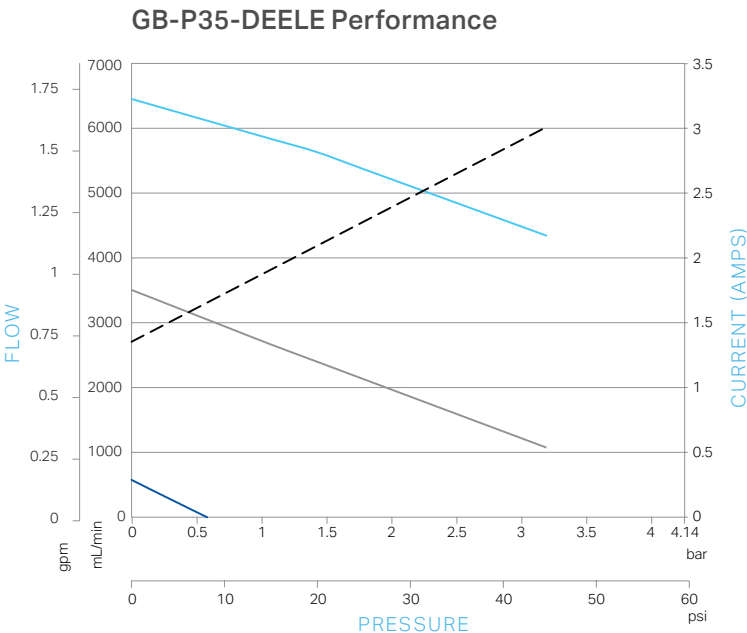
GB SERIES EAGLEDRIVE™

GB-P35-DEELE

PERFORMANCE

Power Supply Voltage = 24 VDC
Water @ 1cps

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



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

PERFORMANCE SUMMARY

MAXIMUM RATED DIFFERENTIAL PRESSURE

■ 8.6 Bar | 125 psi

MAXIMUM RATED SYSTEM PRESSURE

■ 21 Bar | 300 psi

FLOW RATE AT 5500 RPM

■ 6.4 L/min (1.7 US gpm)

TEMPERATURE RANGE

■ -29 to 120°C (-20 to 248°F)

VISCOSITY RANGE

■ 0.5 to 1500 cps

MAXIMUM SPEED

■ 8000 rpm

PUMP CONSTRUCTION

- Suction shoe style
- Stationary shafts
- Two or three helical gears
- O-ring seal

BASE MATERIAL

■ 316 stainless steel

GEARS

- PEEK
- PPS

STATIC SEALS

- Viton
- EP
- TEV
- Kalrez

MAGNETS

DRIVEN

■ Rare earth

DRIVING

■ Electromagnet

PRODUCT ENHANCEMENTS

- Internal Bypass*
- 1/4 - 18 NPT Side Ports*

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