

# GAF SERIES EAGLEDRIVE<sup>™</sup>

When you need a high-differential pressure, low-flow pump that delivers high performance in a small package, GAF Series is an excellent option.

GAF Series gear pumps provide precise, pulseless flow, and features Micropump's suction shoe design.

This pump, standard with an electromagnetic EagleDrive™, provides a highly efficient, compact pumping package that easily integrates into your design.

### MAGNETIC DRIVE GEAR PUMP

#### SMALL SIZE

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

#### RELIABILITY

GAF 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 GAF Series features the same hydraulic performance from the lowest temperature, even freezing, to the highest temperature allowed by the component materials.

## 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.

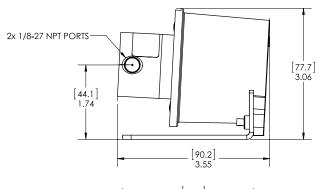
### LONG LIFE

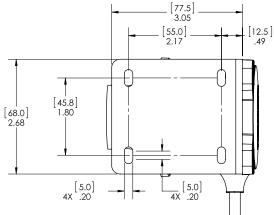
Electromagnetic drive means fewer moving parts.



## GAF SERIES EAGLEDRIVE™ GAF-T23-DEMSE







## DRIVE SPECIFICATIONS FOR EAGLEDRIVE™ DEMSE SPEED

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

#### ACTUAL PERFORMANCE MAY VARY. Specifications are subject to change without notice.

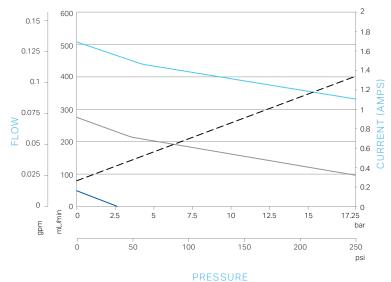
### PERFORMANCE

Power Supply Voltage = 24 VDC Water @ 1cps

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

#### GAF-T23-DEMSE Performance



FLOW RATE NOMINAL: 190 mL/min (@ 8.6 Bar, 3V) FLOW RATE MAX: 506 mL/min (@ 0 Bar, 5V) DISPLACEMENT: 0.092 mL/rev (0.02 gal/1000 rev)

## PERFORMANCE SUMMARY

#### MAXIMUM RATED DIFFERENTIAL PRESSURE

17.2 Bar | 250 psi

#### MAXIMUM RATED SYSTEM PRESSURE

21 Bar | 300 psi

#### FLOW RATE AT 5500 RPM

506 mL/min (0.134 US gpm)

#### TEMPERATURE RANGE

■ -40 to 120°C (-40 to 248°F)

#### VISCOSITY RANGE

0.5 to 1500 cps

#### MAXIMUM SPEED

8000 rpm

#### PUMP CONSTRUCTION

- Magnetic drive gear pump
- Stationary shaftsO-ring seal
- Spur gears

Suction shoe style

#### WETTED MATERIALS BASE MATERIAL

316 stainless steel

#### GEARS

PEEK

#### STATIC SEALS

EPDM

#### MAGNETS DRIVEN

Rare earth

#### DRIVING

Electromagnet

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