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.

**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 EAGLEDRI**\textsuperscript{T\textregistered} 
**GAF-T23-DEMSE**

**PERFORMANCE**

- **Power Supply Voltage**: 24 VDC
- **Water**: @ 1cps

![Performance Chart](image-url)

**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)

**DRIVE SPECIFICATIONS FOR EAGLEDRI**\textsuperscript{T\textregistered} **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 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
- Suction shoe style
- Spur gears
- Stationary shafts
- O-ring seal

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.