



# ELECTRIFIED GDI PUMP

E-Module

## BENEFITS

Scalable for 250- to 500-bar fuel systems

Proprietary motor controller and software

Pump speed is independent of engine speed

Pressurize gasoline, E10 to E85, and M15 fuels up to 500 bar



**Wide Application  
Range**



**Efficient  
Performance**



**Flexible  
Design**

*The electrified gasoline direct injection (GDI) fuel pump is part of Stanadyne's approach to fuel delivery system technology based on electrification. The pump is powered by 48-volt vehicle architecture and decoupled from the internal combustion engine drivetrain. This enables the fuel flow and pressure to be electrically controlled, as the pump speed is now independent of engine revolutions per minute.*

**ENABLING CLEAN PROPULSION THROUGH  
ENGINE INNOVATION**

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# TECHNICAL SPECS

## GENERAL

Fuel Delivery

Nominal Speed

Operative pressure

Inlet interface

Pressure Relief

Drive

Volumetric Efficiency

Lubrication

## REQUIREMENTS

50 L/h (expandable to 100 L/h)

3,000 mrpm (customizable)

250 bar (expandable up to 500 bar)

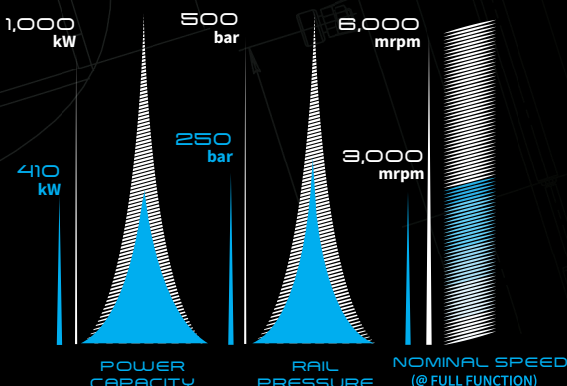
SAE 2044 or user specified

Integrated PRV

Patented Eccentric drive

>85% across range

Oil (Fuel lubrication option)



## UNIQUE FEATURES

### E-PUMP MODULE

- The E-Pump can pressurize gasoline, E10 to E85, and M15 fuels up to 500 bar with a top end fueling capacity up to 100 L/h
- The compact, modular, and scalable design in association with the Stanadyne proprietary controller and software make this pump suitable for a wide range of engine applications (24 and 48-volt)
- Fuel flow is electrically controlled by pump speed control to optimize and reduce fuel consumption
- Oil-lubricated drive for long durability (fuel-lubricated option)
- Smooth and efficient operation for good fuel economy
- Low NVH signature

PATENT PENDING

