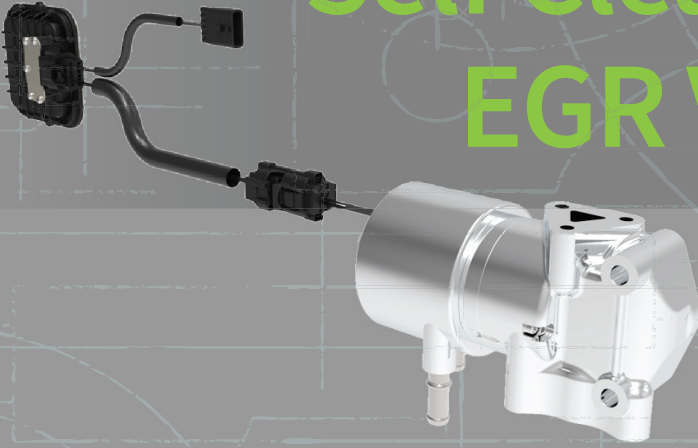


Self Cleaning EGR Valve

Diesel



BENEFITS

Self-cleaning
Modular design

Fully customizable

Scalable design for a wide range
of engine sizes



**Wide Application
Range**



**Flexible
Design**



**Low
Emissions**

A modular, scalable exhaust gas recirculation (EGR) valve with a patent-pending self-cleaning function to mitigate carbon buildup that can cause sticking and eventual valve failure. The unique design uses an in-line controller to improve the reliability of electronic components in high-temperature environments and offers enhanced engine controller interface flexibility.

ENABLING CLEAN PROPULSION THROUGH
ENGINE INNOVATION

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TECHNICAL SPECS

FEATURE

SPECIFICATION

Air Flow	110 kg/h (scalable to >250 kg/h)
Max Internal Leakage	1 kg/h
Max Gas Inlet Temp	250°C inlet
Supply Voltage	12 V (customizable to 24 V)
Motor type	BLDC
IP	Proprietary controller and software design, Patent Pending valve mechanism
I/O	PWM (CAN optional)

UNIQUE FEATURES

INLET PORT

- The mechanical cleaning element breaks down carbon deposits during continuous operation
- The inlet port can take a variety of shapes and modulate the exhaust gas flow with greater accuracy for improved fuel efficiency
- Customizable openings for flow gain tailoring over position and time

CONTROL ELECTRONICS

- Mechanical functions are separated from the electronics by a control unit with a robust wiring harness connection
- Stanadyne-developed BLDC motor controller with a direct-driven design
- PWM communication (Optional CAN)

MODULAR DESIGN

- Engine interface components can be changed without affecting the core mechanism to accelerate customer application development
- Optional cooling system addresses both hot and cold side engine installations

PATENT PENDING

