Clean Air innovation, accelerated℠
Tenneco’s latest generation electronic valves are designed to support low pressure exhaust gas recirculation (EGR) for diesel engines and acoustic tuning for gasoline engines. The valves feature a unique modular design which offers vehicle manufacturers custom flexibility and adaptability for any engine architecture.

Since its inception in 2012, Tenneco’s valve has evolved to a modular, scalable design. It is lightweight, can be easily packaged to fit within any engine architecture, and offers on-demand customization, providing significant cost and time savings for customers.

Additionally, it can accommodate exhaust temperature specifications up to 750°C for EGR applications, which enables efficient NOx reduction - even with highly loaded engine conditions and high return flow rates.

The valve features a dynamic flap control designed to generate optimal pressure conditions for efficient EGR and also provides fail-safe operation. The actuator is interchangeable using a simple mounting concept without any loose interface components and the valve’s flexible actuator orientation allows for simple installation in any engine control environment, without the need to change parts.

The valve delivers important acoustical benefits as well. Whether during engine start or while idling, the flap minimizes internal leakage, which helps to optimize sound quality. The electronically controlled variable flap remains closed during normal driving conditions for a quieter ride and opens during harder acceleration, creating lower backpressure, higher attenuation and more engine power for maximum efficiency.

For more than 15 years, Tenneco has driven the innovation of passive and active exhaust system valves and applications designed to minimize emissions and maximize performance. With our valves, we continue to advance the next-generation components that keep our customers moving forward.
Experience the active exhaust system valve technology that drives efficiency and performance.

Tenneco’s Electrical Valve provides low-pressure EGR systems with an adaptable and robust solution that helps meet NOx emissions regulations without compromising performance.

**ELECTRICAL VALVE FEATURES & BENEFITS**

- Efficient operation in different environments, continuously adjusting backpressure requirements depending on driving conditions
- Durable, special bearing design minimizes external leakage, provides resistance to water projection and salt pollution, eliminates rattling and switching noises, and requires little or no maintenance over the life of the vehicle
- Actuator-independent, modular design makes it easily adaptable to different electrical actuators and tube diameters, and allows it to be purchased and implemented separately from the exhaust system
- Fail-safe operation, with a design that automatically returns it to the open position in case of failure and allows only a slight increase in backpressure when open

Experience the active exhaust system valve technology that drives efficiency and performance.
Partnership built on performance

At Tenneco, we don’t simply provide a product. We provide a partnership—taking into account customers’ entire systems, their unique needs and applications, technology requirements, market challenges and goals. With the Electrical Valve and our full suite of advanced solutions, we offer a partnership that drives the innovation that maximizes performance and enables true emission control.

THE ENGINE OF INNOVATION IN CLEAN AIR

At Tenneco, innovation is a hallmark of everything we do. In our advanced clean air technologies and solutions. In our unique, total-system integration expertise and approach. In our commitment to partnership and collaboration. We’re always looking beyond the technology horizon to foresee and develop the next-generation clean air solutions that accelerate our customers’ success and keep them moving toward the future.

From development through delivery and beyond—we help our partners drive transportation innovation, full speed ahead.

TENNECO IS EVERYWHERE OUR CUSTOMERS NEED US

Our reach is global, but our focus is local, helping customers in each region adapt our global capabilities and technologies for local applications.

• Nearly 29,000 employees worldwide
• 90 manufacturing facilities on six continents
• 15 state-of-the-art research and development centers
• 4 dedicated research and development centers for clean air engineering

Markets served:
• Light vehicle
• Commercial vehicle
  - On-road
  - Off-road
• Locomotive
• Marine
• Stationary
• Large engine
• Retrofit

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