

Delphi Dual Diesel Electronic Throttle Controls

Delphi Dual Diesel Electronic Throttle Controls regulate the intake manifold pressure on diesel engines to help increase exhaust gas recirculation (EGR) rates. They also include a mechanism to enable intake air to by-pass the intercooler allowing particulate trap regeneration. The valves can also provide low minimum flow for smooth diesel engine shutdown. Customized mounting interfaces are available.

► Benefits

- Accurate manifold flow control can achieve high EGR flow rates with minimal system effect
- Built-in valve to by-pass the intercooler allows regeneration of the particulate trap
- Achieves low minimum flow rates for smooth engine shutdown, and minimized noise, vibration and harshness (NVH)
- Non-contacting throttle position sensor technology provides improved reliability and durability

► Typical Applications

The principal application for Delphi Dual Diesel Electronic Throttle Controls is for light duty high speed diesel engines to contribute to reduced NOx emissions and particulate trap regeneration.

► Performance Advantages

Delphi Dual Diesel Electronic Throttle Controls offer manufacturers a number of functional advantages versus systems without manifold vacuum regulator valves and performance advantages over systems with pneumatic activation technologies. Some of these advantages include the ability to accurately regulate manifold vacuum and to accurately repeat — and hold — any given position of flow. Their switching capability provides the advantage of fine control over the charge temperature allowing particulate trap regeneration to occur over a wider range of engine conditions compared to conventional technologies. This function can also be achieved with a separate by-pass valve. Delphi Dual Diesel Electronic Throttle Controls provide a packaging alternative for the separate by-pass valve.

► The Delphi Advantage

Delphi is actively involved in the development of advanced diesel technologies. Delphi designs and supplies complete diesel engine management systems for light duty, medium duty, and heavy duty applications including injection systems and electronics. Delphi has 15 diesel design and engineering centers located in Europe, Asia, North America and South America, and 21 diesel manufacturing facilities in 13 countries enabling exceptional on-time delivery.

As a global leader in engine management systems technology, Delphi can help manufacturers around the world meet emissions requirements, improve fuel economy and enhance performance. Delphi is a source for high value solutions and our systems expertise is built into every product. Delphi's flexible engineering approach encourages collaboration. And, Delphi has a thorough understanding of markets around the world and a global network of resources.



Delphi Dual Diesel Electronic Throttle Control Valve