



Combustion

Explore our Technologies

Viscous Bi-metal Controlled Fan Drives

for light-, medium- and heavy-duty
truck and off-highway engines

Viscous Bi-metal Controlled Fan Drives

THE VISCOUS BI-METAL DRIVES WERE DEVELOPED TO PROVIDE A VARIABLE FAN DRIVE OPTION TO FIXED FANS OR VEHICLES WHERE THE COMPRESSED AIR AND/OR ELECTRONIC CONTROLS ARE NOT AVAILABLE.

They provide fan modulating operation at optimal cost, are light weight and are service-free. These drives give significantly better fuel efficiency than fixed fans.



Features & Benefits

- Self-contained, maintenance-free fan drive
- Smooth/soft engagement for extended belt and accessories life
- Improved fuel efficiency and horsepower savings up to 6-10%* compared to fixed fans
- Air sensed, bi-metal actuator controlled:
 - Bi-metal actuator senses the air temperature behind the heat exchangers and engages the fan when cooling airflow is needed
 - The level of silicone fluid in the working chamber controls the fan speed in direct proportion to the engine cooling needs
 - As the heat exchanger air temperature cools down, the valve closes to disengage the fan
- Improved temperature control for extended engine life
- Remote pulley or crankshaft mounting possible
- Clockwise or counterclockwise rotation versions available
- broad scope of applications for the passenger car, light commercial vehicle, heavy duty truck and off-highway segments. Very reliable technology with proven durability

Design Features

- Hex input shaft with internal thread or flange shaft are available
- Available in different temperature calibrations and torque capacities to suit the unique requirements of each vehicle

*Depending on cycle



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