Explore our Technologies
CVCP (Compact Variable Coolant Pump)
for Heavy Duty Truck Engines
CVCP (Compact Variable Coolant Pump)

The BorgWarner Compact Variable Coolant Pump is driven mechanically and controlled electrically to achieve best in class efficiency.

This innovative product allows control of coolant flow to meet engine system demands. Combined with a high efficiency impeller, the coolant pump provides low idle speeds when coolant demand is low and optimized flow for transient and steady state demands.

Features and Benefits
- Improved radiator life
- Decreased coolant aeration
- Proven Visctronic® Technology
- Low idle speed for reduced power consumption
- Improved fuel economy
- Electrical interface
- Compact system layout
- Coolant flow as needed

Typical Applications
- Medium and heavy duty commercial as well as AG and construction vehicles
- Up to 15 Nm impeller torque capacity

Internal Operation
- Magnetic rotary valve for silicone oil control
- Impeller speed sensor
- Works with ECU for closed loop control
- Viscous-shear clutch drives impeller

Vehicle Operation
- Failsafe against loss of electric power
- PWM signal at 12V or 24 V applied to the integrated electric solenoid
- Low idle speed for fast engine warm-up. 50 - 100 LPM
- Fast response time when engine cooling is required
- Reduced parasitic losses during low engine load operation – higher vehicle efficiency
- Large modulation range to optimized coolant flow for vehicle systems. 100 - 800 LPM

Performance Characteristics
- Fast response times
- Improved engine warm up
- Large modulation range

For Additional BorgWarner Information: borgwarner.com