
Air-Sensing Viscous Fan Drives for Medium- and Heavy-Duty Truck Applications

Air-sensing viscous fan drives from BorgWarner Thermal Systems are ideal for a wide range of applications where quiet operation, excellent cooling performance, and cost efficiency are important. Our air-sensing viscous fan drives utilize a bimetallic sensor that reacts to heat exchanger air temperatures to control fan speed. This smooth transitional speed control can extend belt and accessory life, eliminate air conditioning head pressure spikes, reduce cyclic fan noise, and improve operator comfort—all while boosting engine performance and improving fuel economy. BorgWarner Thermal Systems is the global choice for air-sensing viscous fan drives with a full range of products for medium- and heavy-duty trucks and off-highway applications.

BorgWarner Thermal Systems air-sensing viscous fan drives are an economical choice for efficiency, performance, and quiet operation.



BorgWarner Thermal Systems is a single point of contact for cooling system components for passenger car, SUV, light truck, medium-duty truck, heavy-duty truck, and off-highway applications. We work with original-equipment manufacturers around the world to provide a full range of direct-actuated Viscronic[®] fan drives, viscous fan drives, Kysor[™] on/off fan clutches, Cool Logic[™] heavy-duty multi-speed drives, polymer fans, and shutters.

cool
FAN DRIVES

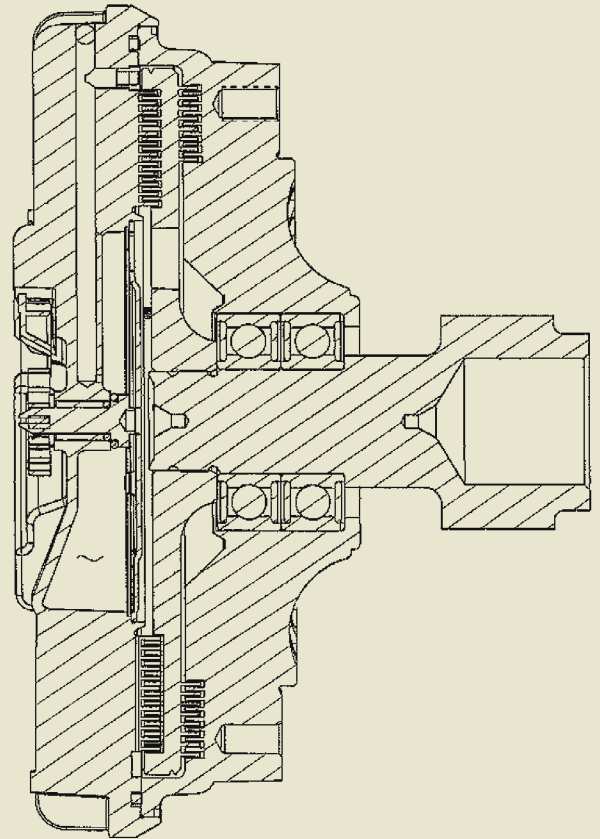
Air-Sensing Viscous Fan Drives

Economical Performance, Control, and Efficiency

Features and Benefits

- Improved efficiency—fan operates only when required and at appropriate speed for possible fuel and horsepower savings of up to 6-10%
- Reduced fan noise
- No maintenance—self-contained unit, nothing to service or maintain
- Improved temperature control—for extended engine life
- Bimetallic sensor—senses heat exchanger air temperature for accurate fan engagement
- Smooth, soft engagement—for extended belt and accessory life
- No external controls required—simplicity of design for improved reliability
- Cost-effective—can be used with polymer or metal fan blades to fit a wide range of applications

Model	Weight	Diameter	Fan Pad To Drive Front	Typical Fan Size	Torque Capacity
610	3.8 lb 1.72 kg	10.48 in 266.2 mm	2.16 in 54.9 mm	20.79 in 528 mm	239 in-lb 27 Nm
660	6.0 lb 2.72 kg	7.35 in 186.7 mm	2.24 in 56.9 mm	24.41 in 620 mm	416 in-lb 47 Nm
690	7.68 lb 3.48 kg	8.03 in 204.0 mm	2.31 in 58.7 mm	26.38 in 670 mm	593 in-lb 67 Nm
750	7.26 lb 3.29 kg	7.8 in 198.1 mm	2.33 in 60.5 mm	28.03 in 712 mm	620 in-lb 70 Nm
790	8.47 lb 3.84 kg	9.21 in 234 mm	2.36 in 60 mm	27.56 in 700 mm	880 in-lb 97 Nm
805	10.56 lb 4.79 kg	9.29 in 236.0 mm	2.46 in 62.5 mm	29.53 in 750 mm	1009 in-lb 114 Nm
810	13.0 lb 5.90 kg	10.51 in 267.0 mm	2.0 in 50.8 mm	29.53 in 750 mm	1009 in-lb 114 Nm



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