

Air-Sensing Viscous Fan Drives for Light Truck and SUV 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 extends belt and accessory life, eliminates air conditioning head pressure spikes, reduces cyclic fan noise, and improves 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 passenger cars, SUVs, light trucks, agricultural, or other off-highway applications.

BorgWarner 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

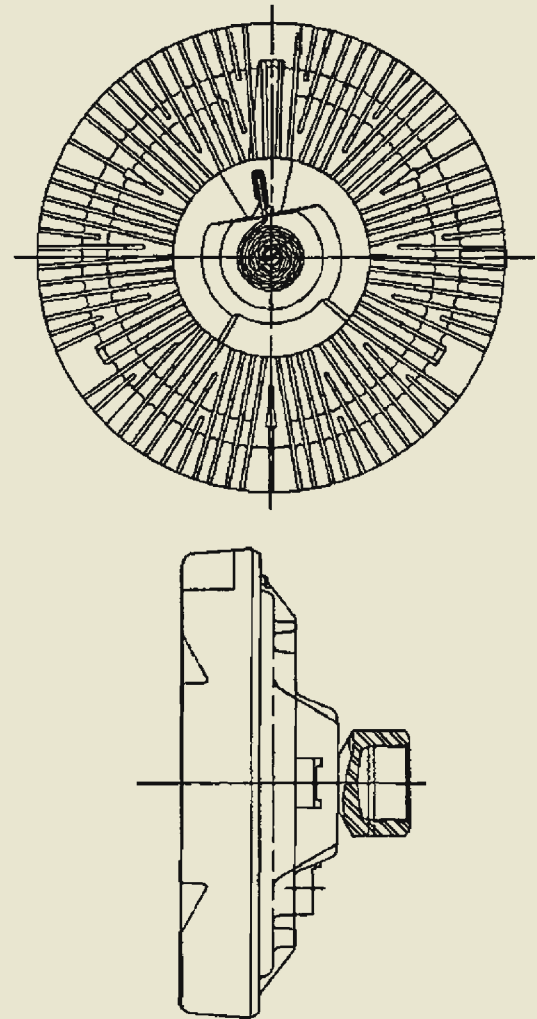
Air-Sensing Viscous Fan Drives

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 6-10%
- Reduced fan noise
- No maintenance – self-contained unit, nothing to service or maintain
- Improved temperature control – for improved 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	Torque Capacity
130	1.3 lb	5.4 in	1.3 in	39.8 in-lb
	0.6 kg	138 mm	33 mm	4.5 Nm
140	1.8 lb	5.3 in	1.6 in	44.3 in-lb
	0.8 kg	135 mm	41 mm	5 Nm
180	2.2 lb	6 in	1.5 in	120.4 in-lb
	1 kg	152 mm	39 mm	13.6 Nm
185	2.4 lb	6 in	2.1 in	120.4 in-lb
	1.1 kg	152 mm	52 mm	13.6 Nm
200	2.7 lb	6.5 in	1.9 in	120.4 in-lb
	1.2 kg	166 mm	47 mm	13.6 Nm
204	2.7 lb	6.6 in	1.9 in	120.4 in-lb
	1.2 kg	168 mm	47 mm	13.6 Nm
205	2.9 lb	7.2 in	2.1 in	120.4 in-lb
	1.3 kg	184 mm	52 mm	13.6 Nm
209	2.9 lb	6.6 in	2.1 in	120.4 in-lb
	1.3 kg	168 mm	52 mm	13.6 Nm
445	2.7 lb	6 in	2.1 in	120.4 in-lb
	1.2 kg	152 mm	53 mm	13.6 Nm
450	2 lb	6.6 in	1.6 in	120.4 in-lb
	0.9 kg	167 mm	41 mm	13.6 Nm
455	2.2 lb	6.6 in	1.8 in	120.4 in-lb
	1.0 kg	167 mm	46 mm	13.6 Nm
475	2.2 lb	6 in	1.6 in	120.4 in-lb
	1.0 kg	152 mm	41 mm	13.6 Nm
505	3.7 lb	6.8 in	2.4 in	120.4 in-lb
	1.7 kg	172 mm	60 mm	13.6 Nm
525	2.9 lb	6.6 in	2.1 in	120.4 in-lb
	1.3 kg	168 mm	53 mm	13.6 Nm
535	2.9 lb	7.2 in	2.1 in	120.4 in-lb
	1.3 kg	184 mm	53 mm	13.6 Nm
545	2.9 lb	7.2 in	2.1 in	144.3 in-lb
	1.3 kg	184 mm	52 mm	16.3 Nm
555	3.1 lb	6.6 in	2.3 in	144.3 in-lb
	1.4 kg	168 mm	58 mm	16.3 Nm
560	3.3 lb	6.5 in	2.4 in	239.0 in-lb
	1.5 kg	165 mm	60 mm	27 Nm
565	3.5 lb	6.5 in	2.5 in	239.0 in-lb
	1.6 kg	165 mm	64 mm	27 Nm
574	4 lb	7.3 in	2.5 in	239.0 in-lb
	1.8 kg	185 mm	56 mm	27 Nm
575	4.2 lb	7.3 in	2.5 in	239.0 in-lb
	1.9 kg	185 mm	64 mm	27 Nm
585	5.5 lb	7.2 in	2.8 in	362.9 in-lb
	2.5 kg	184 mm	72 mm	41 Nm
595	5.5 lb	7.2 in	2.9 in	362.9 in-lb
	2.5 kg	184 mm	72 mm	41 Nm



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