

VSG-413

Carbureted

1.3-Litre

4-Cylinder



Options

Flywheel Housing

- SAE #4 and #5

Power-Take Off (PTO)

- 6.5" (165.1 mm) over-center clutch

Starting Motors

- right and left hand application

Water Pump Pulleys

- one- or two-groove

Speed Governors

- variable or fixed

Instrument Package

Variety of Fan Sizes

Transmissions

Accompanying transmissions are available for the VSG-413 through Ford Power Products.

Warranty

Contact Ford Power Products for warranty details.

Specifications

Engine Type.....	I-4
Bore and Stroke.....	2.90 in x 2.96 in (73.9 mm x 75.4 mm)
Displacement.....	1.3 Litre (79 CID)
Compression Ratio.....	9.5:1
Oil Capacity.....	3.5 Qts (3.31 litres)
Net Weight.....	240 Lbs. (108 Kgs.)
Dimensions*.....	H 17.7" x L 25.6" x W 21.6" (450 mm x 650 mm x 550 mm)

*Dimensions without fan

Gasoline (Corrected per SAE J1995)

Fuel Specification.....	87 A.K.I.
Intermittent Gross Power.....	51 HP @ 3600 RPM (38 kW @ 3600 RPM)
Continuous Gross Power.....	38 HP @ 3000 RPM (28 kW @ 3000 RPM)
Intermittent Gross Torque.....	78 Ft. Lbs. @ 3000 RPM (347 Nm @ 3000 RPM)
Continuous Gross Torque.....	67 Ft. Lbs. @ 3000 RPM (298 Nm @ 3000 RPM)

Natural Gas (Corrected per SAE J1995)

Fuel Specification.....	1050 BTU/FT3
Intermittent Gross Power.....	41 HP @ 3600 RPM (31 kW @ 3600 RPM)
Continuous Gross Power.....	31 HP @ 3000 RPM (23 kW @ 3000 RPM)
Intermittent Gross Torque.....	64 Ft. Lbs. @ 2900 RPM (285 Nm @ 2900 RPM)
Continuous Gross Torque.....	54 Ft. Lbs. @ 2900 RPM (240 Nm @ 2900 RPM)

Liquefied Petroleum Gas (Corrected per SAE J1995)

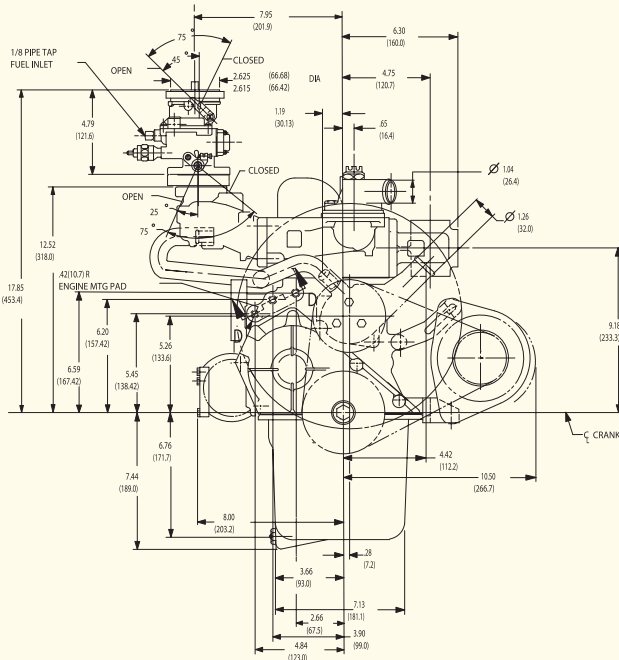
Fuel Specification.....	HD-5
Intermittent Gross Power.....	45 HP @ 3600 RPM (34 kW @ 3600 RPM)
Continuous Gross Power.....	35 HP @ 3000 RPM (26 kW @ 3000 RPM)
Intermittent Gross Torque.....	73 Ft. Lbs. @ 2600 RPM (325 Nm @ 2600 RPM)
Continuous Gross Torque.....	62 Ft. Lbs. @ 2600 RPM (276 Nm @ 2600 RPM)

Standard Features / Benefits

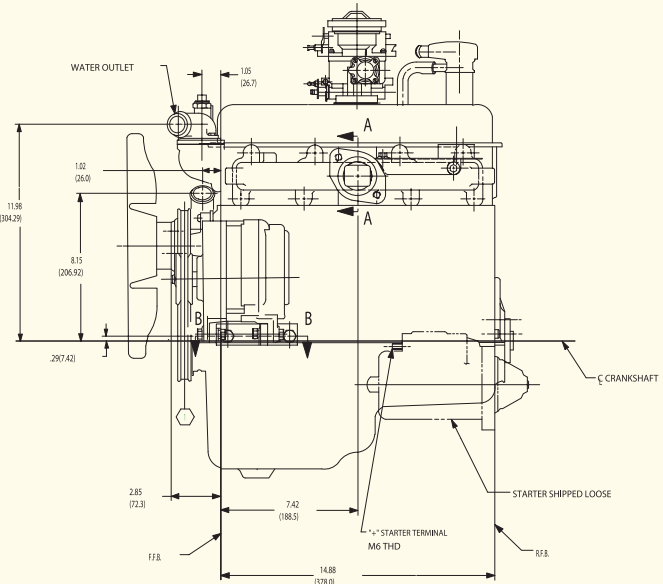
Distributorless Electronic Engine Management System for precise ignition timing
Carbureted Downdraft Fuel System for optimized fuel distribution
Cast Iron Cross Flow Type Cylinder Heads offering excellent breathing characteristics, increased performance and fuel economy for multi-fuel operation
Cast Iron Cylinder Block with Full-Length Water Jackets resulting in long engine life
Nodular Cast Iron Crankshaft is extremely rigid for increased durability
Pressurized Lubricated Bearings and Tappets with oil mist and splash to cylinder walls and piston rings for maximum internal component lubrication
Pressure-Type, By-Pass Circulation Cooling System for maximum cooling control
Water Pump Delivery of 24.4 gal/min (92.3 litre) @ Pump RPM of 2800 ensures a generous protective engine cooling range
Internally Regulated 12V Negative Ground, 37- or 51-AMP Alternator providing modern, compact charging system while minimizing bulky wiring harnesses
Hardened Exhaust Valve Seats for multi-fuel use
Versatile Rear-End Configurations for multiple use applications
Electronically Controlled Spark for reduced emissions and improved efficiency



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Front End View

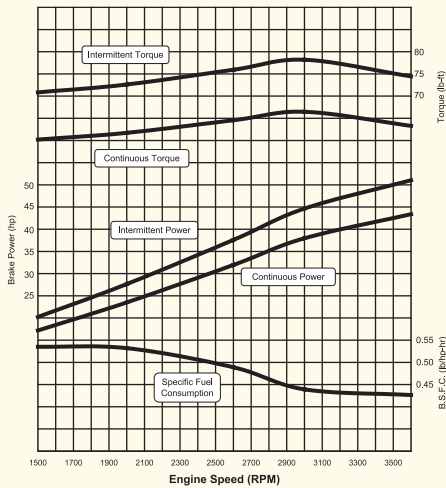


Side View

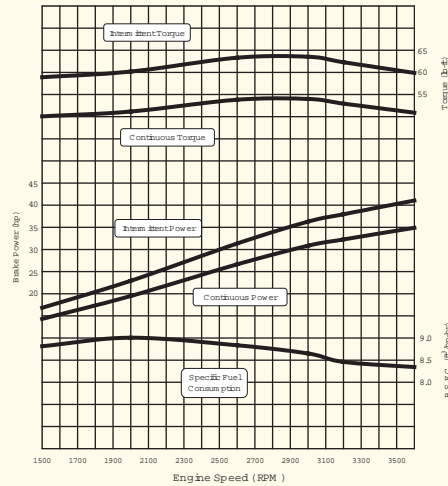
Measurements in" (mm)

Power Curves (corrected per SAE J1995)

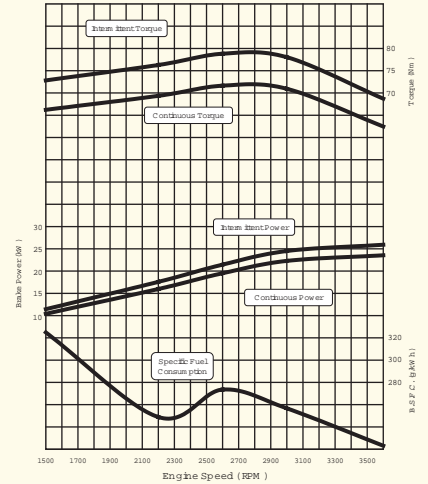
Gasoline:



Natural Gas:



Liquefied Petroleum Gas:



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Contact Ford Power Products or your local FPP distributor for additional information

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Specifications are subject to change without notice. Some Ford engines are produced for Ford by other companies.