MarineDiesel VGT-LP* series

* low profile

350hp - 500 hp range @3600 rpm

All MarineDiesel VGT Common-Rail engines are based on the 6.6L V8 configuration and are designed to be as compact and lightweight as possible while maintaining durability and serviceability. The VGT-LP is intended for medium to high speed vessels. Laptop based diagnostics tool is available for all VGT and TSC engines. J1939 and NMEA2000 CAN communication.

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**General Data**

- **Model**: MD-VGT32
- **Number of cyl**: 8
- **Displacement**: 6.6L
- **Bore X stroke**: 103 X 98 mm
- **Compression ratio**: 16:18:1
- **Valves per cyl.**: 4
- **Firing order**: 1-2-7-8-4-5-6-3
- **Combustion system**: DI Common rail
- **Engine type**: V8
- **Aspiration**: Variable geometry turbo
- **Charge air cooling**: Air to water
- **Max crankcase press kPa**: 0.5

**Physical Data**

- **Length, mm**: 779
- **Width, mm**: 825
- **Height, mm**: 973
- **Weight dry, kg**: 500

**Air System**

- **Max intake restriction, kPa**: 6
- **Engine air flow m³/min**: 30
- **Rec air intake pipe diam, mm (min)**: 100
- **Minimum intake air per engine (cm³)**: 900
- **Engine bay temp. vs. amb. temp. ΔT max °C**: 15
- **Emission**: RCD, IMO, EPA, Tier 3 and CE3
Cooling System

Cooling System: closed cooling
Closed system coolant flow L/min: 304
Raw water pumpflow L/min: 150
Thermostat start to open °C: 70
Thermostat fully open °C: 78
Engine coolant capacity L: 18
Recommended press ca psi: 16
Raw water intake Ø, mm: 38

Fuel System

Fuel injection pump: Bosch common rail
Governor regulation: 1%
Governor type: Electronic
Maximum fuel transfer pump suction
Distance of fuel m: 2.5
Fuel filter micron size: 10

Lubrication System

Oil pressure at 2000 rpm - psi: 30-45
Oil pressure at low idle - psi: 12
In pan oil max temperature °C: 120
Thermostat fully open °C: 93

Exhaust System

Exhaust flow m³/min (max): 60
Exhaust temperature °C (max): 700
Max. allowable exhaust backpress kPa: 7.5
Exhaust hose ID, mm: 127

Electrical System

Recommended battery capacity CCA
12 volt system - amp: 1050
Maximum allowable start circuit resistance
12 volt system - ohm: 0.001