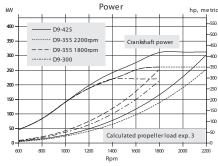
# **D9-MH**

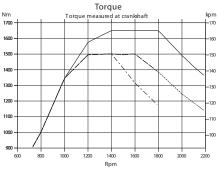


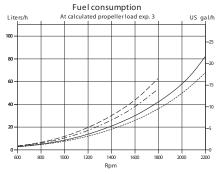
# **Technical Data**

rechnical Data				
Engine designation	D9 MH			
No. of cylinders and configuration	in-line 6			
Method of operation	4-stroke, direct-injected, turbocharged diesel engine with aftercooler			
Bore/stroke, mm (in.)	120/138 (4.72/5.43)			
Displacement, I (in³)	9.4 (571)			
Compression ratio	20.2:1			
Dry weight bobtail, kg (lb)	1150 (2535)			
Dry weight with reverse gear MG5114SC, kg (lb)	1375 (3031)			
Dry weight with reverse gear MG5114DC, kg (lb)	1575 (3472)			
	Rating 1 1800 rpm	Rating 1 1800 rpm	Rating 1 2200 rpm	Rating 2 2200 rpm
Crankshaft power, kW (hp)	221 (300)	261 (355)	261 (355)	313 (425)
Max. torque, Nm (lbf.ft) @ 1400 rpm	1501 (1107)	1501 (1107)	1501 (1107)	1651 (1217)
Specific fuel consumption,				
g/kWh (lb/hph) @1800 rpm	205 (0.332)	205 (0.332)		
g/kWh (lb/hph) @ 2200 rpm			219 (0.355)	222 (0.36)
Recommended fuel to conform to	ASTM-D975 1-D & 2-D, EN 590 or JIS KK 2204			
Emission compliance	IMO NOx, EU IWW and US EPA Tier 2.			
Flywheel housing/SAE size	14"/SAE1			

Technical data according to ISO 3046 Fuel Stop Power and ISO 8665. Fuel with a lower calorific value of 42700 kJ/kg and density of 840 g/liter at 15  $^{\circ}$ C (60  $^{\circ}$ F). Merchant fuel may differ from this specification which will influence engine power output and fuel consumption. Ratings R1 & R2, see explanation in Volvo Penta's Sales Guide.









# **D9-MH**

# **Technical description:**

#### Engine and block

- Cylinder block and cylinder head made of cast-iron
- One-piece cast-iron cylinder head
- Ladder frame fitted to engine block
- Replaceable wet cylinder liners and valve seats/guides
- Drop forged crankshaft with induction hardened bearing surfaces and fillets with seven main bearings
- Four valve per cylinder layout with overhead camshaft
- Each cylinder features cross-flow inlet and exhaust ducts
- Gallery oil-cooled cast aluminum alloy pistons with three piston rings
- · Rear-end transmission

# **Engine mounting**

Flexible engine mounting (option)

### Lubrication system

- Integrated oil cooler in cylinder block
- Symmetrically positioned twin full flow oil filter of spin-on type and by-pass filter

## Fuel system

- Electronic Unit Injectors, one per cylinder, vertically positioned at the center in between the four valves
- 5-hole high pressure injector nozzles
- Gear-driven fuel pump, driven by timing gear
- Electronically controlled central processing system (EMS – Engine Management System)
- · Electronically controlled injection timing
- Single fine fuel filter of spin-on type, with water separator and water alarm

# Air inlet and exhaust system

- · Air filter with replaceable inserts
- Mid-positioned twin entry turbocharger with aftercooler

### Cooling system

- · Seawater-cooled tubular heat exchanger
- · Coolant system prepared for hot water outlet
- Easily accessible seawater impeller pump in rear end

### **Electrical system**

• 24V/80A alternator

#### Instruments/controls (option)

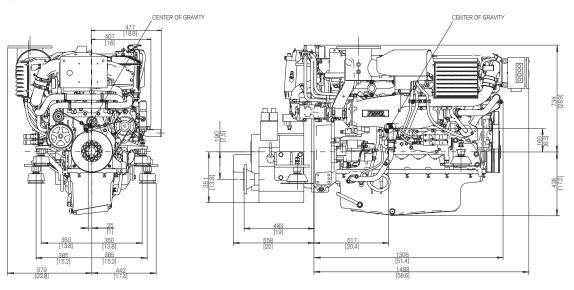
- Complete instrumentation including key switch and interlocked alarm
- EVC monitoring panels for single or twin installations
- Electronic remote control for throttle and shift
- · Plug-in connections
- SDU shut-down unit for classified installations

#### Reverse gear

• MG5114SC/DC-E, electronically shifted.

# **Dimensions D9 MH with MG5114SC-E**

Not for installation



#### More information

Contact your local Volvo Penta dealer for more information regarding Volvo Penta engines and optional equipment/ accessories or visit www.volvopenta.com





Download the Volvo Penta dealer locator App for your IPhone or Android



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