VOLVO PENTA MARINE DIESEL

D30A MS

445 - 490 kW (605 - 666 hp) crankshaft power

Powerful and reliable engine for demanding operation in commercial applications

The Volvo Penta D30A MS engine is designed to meet the most demanding requirements, such as marine main propulsion or marine generator drive. Its compactness and durability applies the most advanced technologies and engineering know-how; all this to benefit the operator.

The Volvo Penta D30A MS diesel engine is built to the highest quality standards recognized by all the major marine classification societies, such as Germanischer Lloyds, Norske Veritas etc. as well as the national Shipping Inspections.

Volvo Penta is continuously making intensive research work on the marine application of the engine to pro-duce an engine with a compact design, which gives many advantages, such as low running costs in relation to high output.

An optimal combination of combustion chambers, fuel injection system, and effective turbocharger and charge air cooling system, provide excellent fuel consumption over the whole range of engine speeds, through which the engine is economical in operation.



Maintenance is very easy, as supplementary equipment such as fuel injection pump, governor, water pump and turbocharger do not need any separate lubrication. The cylinder heads are individually divided by cylinder, and the engine has large inspection covers in crankcase and oil pan.

As the dimensions of the D30A MS engine are kept as small as possible, it takes up surprisingly little space. This asset will be subscribed whole-heartedly by the person who is in charge of the engine room. An engine room equipped with this engine is a well-ordered engine room.

Warranty and Service

All Volvo Penta marine engines come with the additional benefit and security of the Cost Control Program, a unique system of operator support and financial control – from installation to after-sales service. The optional international limited Volvo Penta three-year warranty provides the owner peace of mind. Qualified Volvo Penta dealers stand by for service and support in more than 100 countries all over the world.

Diesel&Gas Service 111524, Россия, г. Москва, Проезд Фрезер, д.2, стр.107 Телефон: +7 (495) 775 01 27 E-mail: info@dieselgass.ru

D30A MS

Technical Data

Engine designationD30A MS
No. of cylinders and configuration in-line 6
Method of operation
4-stroke, direct-injected,
turbocharged diesel
engine with aftercooler
Bore, mm
Stroke, mm
Displacement, I 29.96
Compression ratio 14:1
Dry weight (HE), kg
Dry weight (KC), kg 3050
Crankshaft power at calculated propeller load,
Rating 1, kW(hp) 1350rpm 445 (605)
Rating 2, kW(hp) 1400rpm 490 (666)
Torque at calculated propeller load,
Rating 1, Nm 1350 rpm
Rating 2, Nm 1400 rpm
Recommended fuel to
conform to ASTM No. 2-D
Specific fuel cons. at calculated propeller load,
Rating1, g/kWh 1350rpm212
Rating2, g/kWh 1400rpm208

All data represent net performance including standard equip-ment as lube oil pump, water pump charging alternator, under the conditions of 100kPa barometric pressure, 25°C ambient temperature, 30% relative humidity and 32°C sea water temperature.

The propulsion engine with rating 1 power setting is exhaust emission certified for River Rhine.

The engine type complies with IMO MARPOL 73/78 Annex VI exhaust emission standard. For detailed information contact Volvo Penta

Note! The engine illustrated may not be entirely identical to production standard engines

Standard Equipment:

Engine

- Flywheel housing with connection acc. to SAE 0
- Flywheel (18")

Lubrication system

- Fresh water cooled oil cooler - Spin-on type oil filter with shift valve - Spin-on type oil by-pass filter

Fuel system

- Hydraulic governor
- Jacketed fuel pipes
- Spin-on type fuel filter (change over type)

Exhaust system

- Non-cooled turbocharger
- Air inlet filter/silencer

Heat Exchanger cooled system (HE)

- For Seawater and central cooled installations
- Engine mounted tubular heat exchanger with integrated expansion tank

Keel cooled cooling system (KC)

- For connection to one external cooler
- 1-circuit keel cooling system

Electrical system

- Starter motor (DC 24V-7.5kW)
- Alternator (24V-35A)

Other equipment

- Front P.T.O. pulley
- Front safety cover

- Standard tools

Optional Equipment:

- Electrical system including wiring, senders, switches and terminal box mounted on engine
- 24V fuel shut-off valve, electrically operated
- Instrument panel for engine-room and wheel-house
- Raw-waterpump
- _ Air starting system on request
- Oil drain pump
- Flexible exhaust hose for dry exhaust line
- Dry exhaust silencer _
- Fuel filter/water separator with shift valve
- Classification under all the major marine
- classification societies
- Gearbox on request
- Spare parts

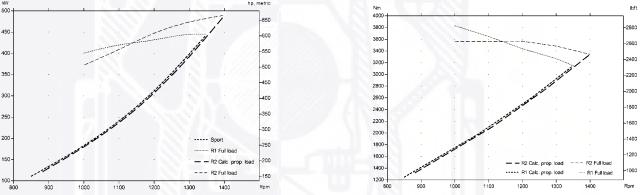
Contact Volvo Penta for further information. Not all models. standard equipment and accessories are available in all countries. All specifications are subject to change without notice. The engine illustrated may not be entirely identical to production standard engines.

Marine Commercial Ratings

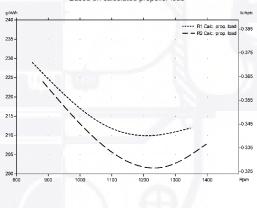
Rating 1 (R1, Heavy Duty Commercial) This power rating is intended for commercial vessels with displacement hulls in heavy operation, unlimited number of running hours per year. Load and speed could be constant, and full power can be used without interruption. Rating 2 (R2, Medium Duty Commercial)

This power rating is intended for commercial vessels with semiplaning or displacement hulls in cyclical operation, running hours less than 3000 h per year. Full power could be utilized maximum 4 h per 12 h operation period. Between full load operation periods, engine speed should be reduced at least 10% from the obtained full load engine speed.

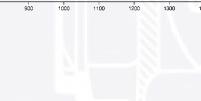




Specific fuel consumption D30A MS ased on calculated propeller load



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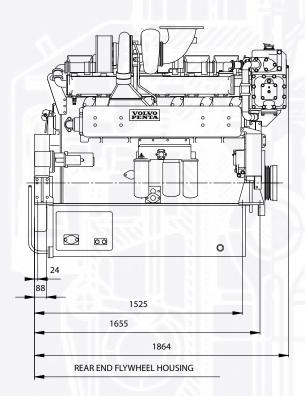


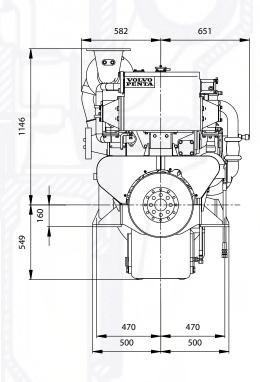
Crankshaft power D30A MS

Power measured at crankshaft hp. metric

D30A MS

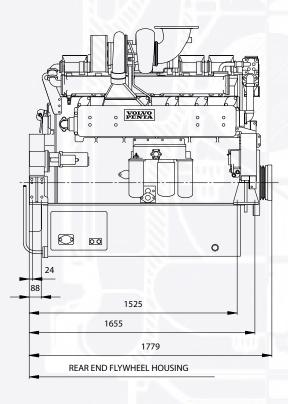
Dimensions D30A MS, Heat exchanger cooled Dimensions in mm. Not for installation

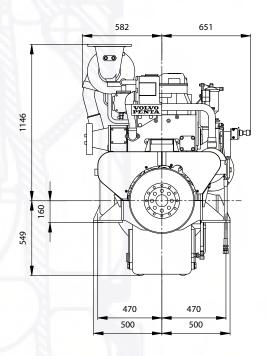




Dimensions D30A MS, Keel cooled

Dimensions in mm. Not for installation





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