MAN Energy Solutions Future in the making



S.E.M.T. Pielstick PC2.6 B Marine Propulsion

Design Concept:

- Reduced weight
- Highest compactness
- All driven pumps
- Hydraulic governor definition for Marine application
- Reinforced thrust bearing for shock resistance
- Standard fuel injection system
- Well-proven design features

Benefits for the operator:

- Compact engine room design
- Reduced operating costs
- Extremely reliable



S.E.M.T. Pielstick PC2.6 B Marine

Propulsion

Output

Bore 400 mm, Stroke 500 mm	12V	14V	16V	18V
Rated power output (kW)	9,000	10,500	12,000	13,500
rpm	600	600	600	600

Specific fuel oil consumption (SFOC) to ISO conditions

Engine rating	MCR 100%	MCR 85%
SFOC	185 g/kWh	179 g/kWh

Specific lube oil consumption: 1.2 g/kWh.

Figures on theoretical propeller curve for distillates according to ISO 8217 DMA. ICFN, 1 hour every 6 operating hours

Dimensions

Cyl. No.	12V	14V	16V	18V
L (mm)	8,247	8,987	9,727	10,467
L₁ (mm)	5,960	6,700	7,440	8,180
H (mm)	4,794	4,794	4,794	4,794
W (mm)	3,674	3,674	3,674	3,674
Dry mass (t)	94	104	114	123



General

- Four-stroke sea-proven engine
- Conservative Brake Mean Effective Pressure (BMEP) resulting in a low mechanical stress fatigue and consequently a high reliability factor and long TBO: 32 000 Hrs
- Engine base qualified for nuclear applications

Main features

- Conventional reliable fuel injection
- Seawater, LT and HT integrated driven pumps
- Integrated lubrication system
- Air start
- MAN control system
- IMO Tier II compliant EPA

Fuel & Lube oil

Distillate marine fuels according to ISO 8217:

- DMX, DMA, DMZ and DMB
- NATO F-44 (JP5)
- Biodiesel B20, B30

Lube oil:

- SAE 40
- MC30 (code NATO O-278)

Rated power output (kW)



Military specific features

- Shock resistant
- Full blackout capability (no electrical supply)
- Low airborne & structure borne noise
- Low Heat emission (IR signature)
- Driven fuel pump with black start capability

Optional Common Rail injection system Available for DO and HFO

- Reduction of smoke emissions under visibility limit
- Reduction of fuel consumption from 3% to 6% (depending on operating profil and NOx constrains)
- Retrofit solution

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S.E.M.T. Pielstick - a brand of MAN Energy Solutions France SAS

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