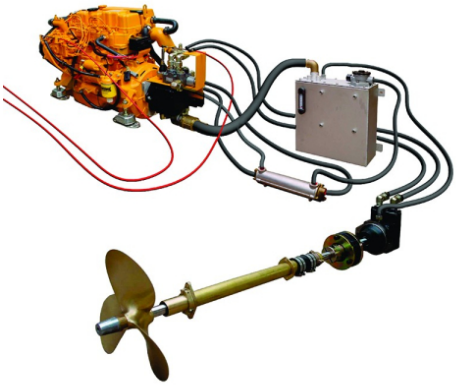
Man.El.Service Srl
Torino: +39 011 25 35 33 I Milano: +39 02 83 62 30 79
info@manelservice.com
Via Carlo Pittara 46 - 10151 Torino (TO) - Italy
PIVA 09031950018 - Num. REA: 1020262
SDI 5RUO82D Cap. Soc. € 20.000 I.V



VETUS HPM4.56 HYDRAULIC PROPULSION 52 HP

Reference: HPM4.56

VETUS HPM4,56 HYDRAULIC PROPULSION 52 HP

VETUS HPM4,56 is a hydraulic propulsion system equipped with a 4-cylinder VETUS M4.56 engine capable of delivering a maximum mechanical power of 52 Hp.

The engines of the VETUS HPM4,56 are quiet, reliable and offer high power and torque ratios. The fuel line is self-purging, a nice convenience when replacing the fuel filter. The VETUS HPM4,56 propulsion system engine is equipped with a high-power marine alternator for fast battery charging.

Thanks to a rugged aluminum heat sink and a newly designed air filter, VETUS has managed to make its engines exceptionally quiet, giving you the pleasure of a peaceful boating excursion.

A rotary hydraulic pump is installed on the engine of the VETUS HPM4,56, instead of the inverter. This pump draws fluid from a special reservoir and pushes it under pressure to the control valve. The valve determines the direction and volume of fluid to be sent to the motor, which can then turn left or right depending on the direction chosen.

The transmission (reduction) ratio of the propulsion is determined by the difference in displacement between the rotary pump and the hydraulic motor. The reduction ratio, from the number of revolutions at the axle to the number of revolutions at the propeller is 2:1 for the VETUS model HPM4,56.

The maximum power of the main motor must be 50 kW, so an axle with a diameter of 25 mm will be sufficient. The VETUS HPM4,56 hydraulic motor flange is suitable for all types of flexible couplings.

The flange of the VETUS HPM4,56 hydraulic motor is suitable for all types of flexible couplings.

TECHNICAL FEATURES VETUS HPM4,56

Maximum power: 38. 3 KW (52 Hp)
Power supply: Diesel
Maximum revs: 3000
Maximum torque: 127 Nm/2000 rpm
Bore and Stroke: 78 mm x 92 mm
Displacement: 1758 cm^3
Number of cylinders: 4 in-line
Combustion System: Indirect Injection
Compression Ratio: 22:1
Injection Order: 1-3-4-2
Injection: with turbocharger
Electrical System: 12 Volts - 110 Amps.
Cooling: Indirect

Man.El.Service Srl
Torino: +39 011 25 35 33 I Milano: +39 02 83 62 30 79
info@manelservice.com
Via Carlo Pittara 46 - 10151 Torino (TO) - Italy
PIVA 09031950018 - Num. REA: 1020262
SDI 5RUO82D Cap. Soc. € 20.000 I.V

Fuel consumption at 2500 rpm: 244g / kW.h (179 g / hp.h)

ENGINE SIZE
Width: 836 mm
Length: 490 mm
Height: 594 mm
Dry weight: 206 kg

The VETUS HPM4,56 SYSTEM INCLUDES
- Hydraulic pump
- Adaptor flange and coupling for engine installation
- Hydraulic motor
- 35 liter hydraulic tank
- Heat exchanger
- Control valve
- Flexible mounts
- Engine instrument panel and wiring harness

Looking for a hydraulic propulsion system with different technical features? Here you can find the full range of VETUS or other brands specializing in this field.

Images and technical data are not binding and may be subject to revisions by the manufacturer.

Technical Sheet

Fuel	Diesel
Engine	VETUS M4.56
Engine rpm (rpm)	3000
Starting system	Electric
Engine capacity (cm^3)	1758
Number cylinders	4
Cylinders' position	In line
Cooling	Indirect
Bore x stroke (mm)	78 x 92
Compression ratio	22 : 1
Net power (kW)	38.3
Maximum torque	127 Nm/2000 rpm
Mechanical power (hp)	52
Engine manufacturer	VETUS