

# PAS 100MF 250

Diesel - Qmax 69 l/s - Hmax 36 m



PAS 100MF 250 Liquid cooled engine

## PAS MF - Vacuum prime centrifugal pumps

The pump system consists of a centrifugal pump and a SuperDuo separator, which enables air to be separated from the liquid and be sucked by a vacuum pump – making automatic priming possible. Even with suction heights of several meters the machine rapidly evacuates the air from the suction pipe and starts to pump. Additionally, thanks to the semi-open impeller, the PAS MF range is also suitable for pumping liquids with solids in suspension.

## Applications

Both Atlas Copco and Varisco have decades of experience in designing and producing pumps. We have put those years of expertise into providing a solutions portfolio that works across multiple applications. The PAS MF (medium flow) range is packed with features that not only meet, but exceed the needs of the market. We are focused on an efficient, extremely versatile pump that is suitable for many industries, including construction, general dewatering and emergency applications, such as flood clean up.

Technical data	
Material	S275JR EN 10025-2 carbon steel
Coatings	Epoxy powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Features	Modular and demountable framework; hot dip galvanised steel support bases, bullbars and lifting beam. Mudguards with galvanised steel walkable surface. Tow bar, adjustable support feet. Lockable battery box. Fuel level indicator.
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	300 l (79.3 USG)
Locking keys	Fuel cap

## Benefits

### Pump

High efficiency: 70% (B.E.P.)

### Rapid "dry" priming

Up to a height of 8.5 m (27.5 ft)

### High resistance

To abrasive liquids and turbid sandy waters

### Semi-open impeller

Solids handling up to 50 mm (2")

### Easy maintenance

Without lifting devices: hinged cover for direct access to the impeller

### Diaphragm vacuum pump

Oil free suitable for dry running: no contamination of the environment

### Wear plates

Cast iron (G11 rubber lined) or stainless steel wear plates, that are easily replaceable

### SKID02 PAS 100MF



Dimensions	1070 x 2220 x 1670 mm
H suction port	0.735 m
Weight (KL17)	990 kg

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## Performance curves

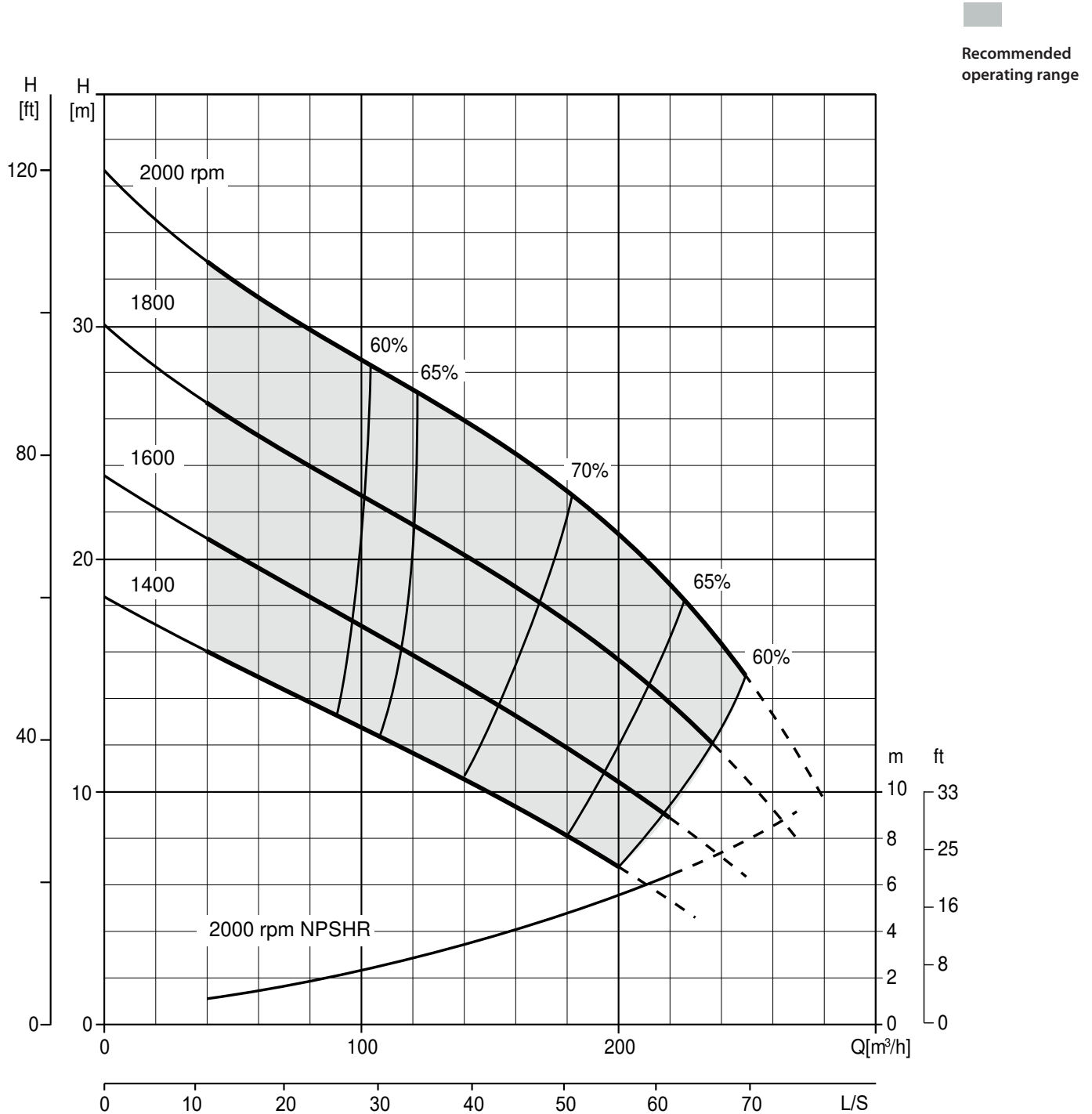
Test according to UNI EN ISO 9906 standard - level 2

Test liquid: clean water, density 1,000 kg/m<sup>3</sup>

Spherical solids handling: D.50 mm (2")

Priming time: 22 s from 1,5 m (4.9 ft)

Max absorbed power: 17,0 kW - 22.8 HP (2.000 rpm)



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## Arrangements

### CNP PAS 100MF 250



<b>Dimensions</b>	1110 x 2560 x 1705 mm (44 x 101 x 67 ")
<b>Material</b>	S275JR EN 10025-2 carbon steel
<b>Coatings</b>	Epoxy powder, average thickness of 80 µm
<b>Color</b>	Yellow and grey Atlas Copco (standard)
<b>Features</b>	Hot dip galvanised steel base; modular frame, stackable
<b>Battery</b>	Acid charge Pb-Ca maintenance free, 12 V - 100 Ah - 400 A
<b>Tank</b>	420 l (111.0 USG)
<b>Drip pan</b>	462 l (122.0 USG) (110% of the total volume of the tank)
<b>Emergency stop</b>	Outside the canopy
<b>Locking keys</b>	Control panel door and canopy doors
<b>H suction port</b>	0,71 m (2.3 ft)
<b>Weight (KL17)</b>	1260 kg (2,780 lb)
<b>Noise level (KL17)</b>	63-68 dB(A) @10 m (32 ft)

## Engines

<b>Make</b>	<b>Kohler</b>			
<b>Model</b>	KDI 1903M (KL17)			
<b>Type</b>	Diesel direct injection, aspirated			
<b>Displacement</b>	1.861 cm <sup>3</sup> (114 in <sup>3</sup> )			
<b>No. cylinders</b>	3			
<b>Cooling</b>	Liquid with radiator			
<b>Rpm type</b>	Variable			
<b>Standard speed</b>	2.000 rpm			
<b>EU emissions</b>	2002/88/CE Stage 3A			
<b>US emissions</b>	EPA Tier III			
<b>Starting</b>	Electric			
<b>Starting voltage</b>	12 V			
<b>Oil change interval</b>	500 h			
<b>Market</b>	UE			
<b>Speed [rpm]</b>	<b>1400</b>	<b>1600</b>	<b>1800</b>	<b>2000</b>
<b>Consumption [l/h]</b>	4,4	5,1	5,4	5,8
<b>Power [kW]</b>	17,6	20,3	21,6	23
<b>Power [HP]</b>	23.6	27.2	29	30.8

## Control panel

<b>Model</b>	CP CNP 01
	Manual operation, automatic operation (start/stop with floats), emergency operation
	Hour meter
	Rev counter
	Battery voltmeter
	Fuel level indicator
	Vacuum gauge
	Emergency stop button
	Display with 6 languages
	Automatic engine shutdown in case of:
	- low oil pressure
	- water overheating
	- lack of battery charging
	(engine failure alarms with LED lights and display message)
	GSM communication module (optional)
	Throttle rod