

# PAS 100MF 250 FKL39

Diesel - Qmax 78 l/s - Hmax 36 m



Indicative picture of the product

## PAS MF - Vacuum prime centrifugal pumps

The pump system consists of a centrifugal pump and a 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 solutions that work 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.

## Benefits

### Pump

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

### Rapid "dry" priming

Up to a height of 7,5 m (24.6 ft)

### High resistance

To abrasive liquids and turbid sandy waters

### Semi-open impeller

Solids handling up to 50 mm (2")

### Diaphragm vacuum pump

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

### Wear plate

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

### Mechanical shaft seal in oil bath

It allows the "dry running" operation of the pump

### Easy maintenance

Hinged cover for direct access to the impeller (without lifting devices). Link belt quick to replace on the field.

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## Performance curves

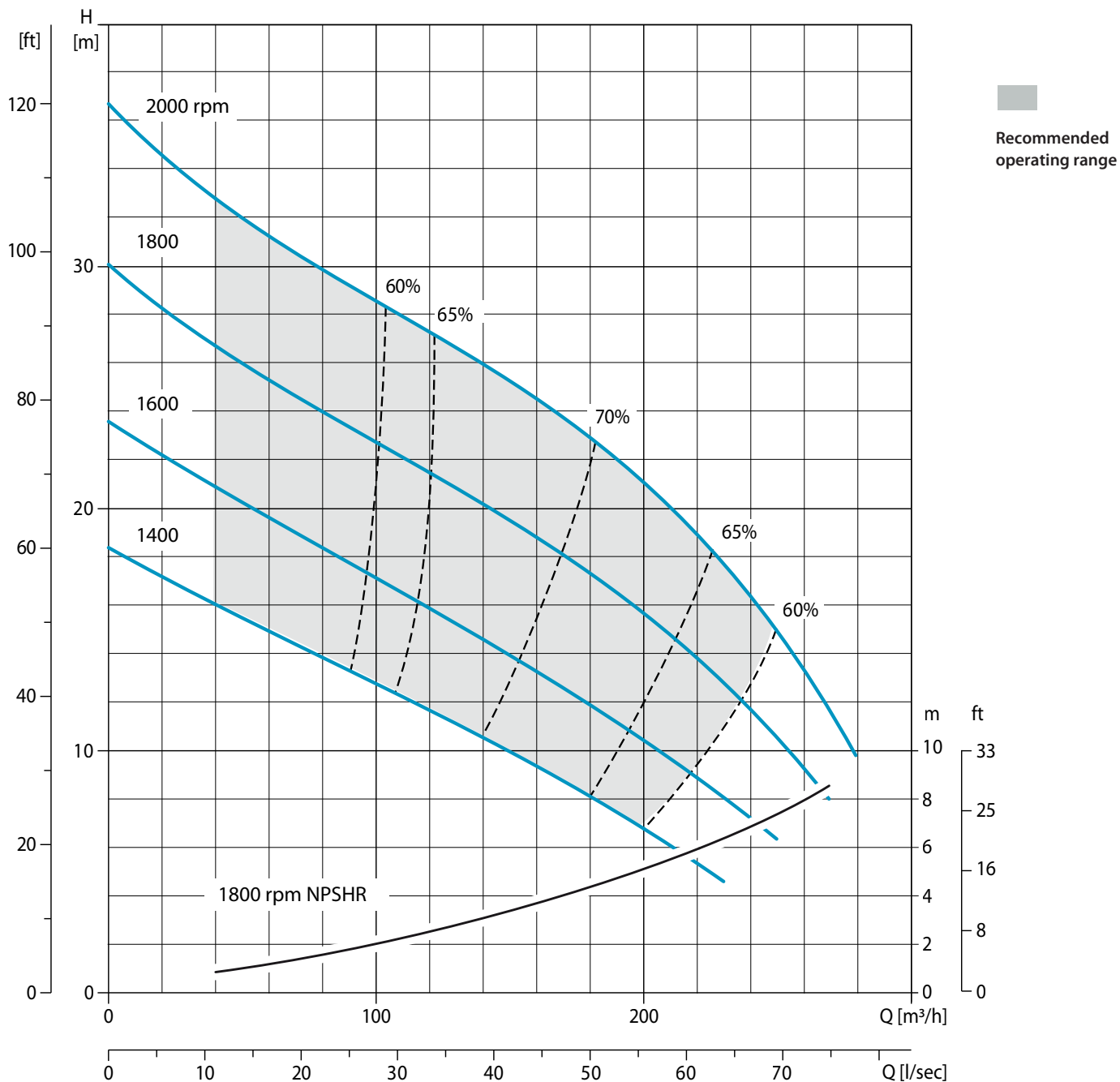
Test according to UNI EN ISO 9906 standard - level 2

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

Losses from priming system and check valve not included

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

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



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## Technical data

### Pump

Model	PAS 100MF	
Qmax	78 l/s - 280 m <sup>3</sup> /h - 4.670 l/min (1,200 USgpm)	
Hmax	36 m (118 ft)	
Q max eff.	50 l/s - 180 m <sup>3</sup> /h - 3.000 l/min (800 USgpm)	
Eff. max	70 %	
Suction port	Flanged - 100 TABLE E (AS 2129)	
Delivery port	Flanged - 100 TABLE E (AS 2129)	
Impeller type	Semi-Open, 2 vane	
Solids handling	50 mm (2.0 ")	
Material	G11	F11
Casing	EN-GJL-200 cast iron	EN-GJL-200 cast iron
Impeller	EN-GJS-400 ductile iron	CF8M stainless steel
Wear plates	EN-GJL-200 rubber lined cast iron	CF8M stainless steel
Number of plates	2	2
Shaft	39NiCrMo3 steel	SAF 2205 stainless steel
Flushing	Yes	Yes
Mechanical seal	Tungsten carbide / Tungsten carbide	Tungsten carbide / Tungsten carbide
Elastomers	VITON	VITON

### Priming system

Vacuum pump	V20
Vacuum pump type	Diaphragm
Nominal air capacity	50 m <sup>3</sup> /h (29.4 cfm)
Max vacuum	0,9 bar
Separator type	Valmatic
Separator material	EN-GJL-200 cast iron
Drives	Link belt

### Engine

Make	Kohler			
Model	KDI 1903M (KL39)			
Type	Diesel direct injection, aspirated			
Displacement	1.861 cm <sup>3</sup> (114 in <sup>3</sup> )			
No. cylinders	3			
Cooling	Liquid with radiator			
Rpm type	Variable			
Standard speed	2.000 rpm			
US emissions	EPA Tier 3			
Starting	Electric			
Starting voltage	12 V			
Speed [rpm]	1400	1600	1800	2000
Consumption [l/h]	4,4	5,1	5,4	5,8
Power [kW]	17,6	20,3	21,6	23
Power [HP]	23.6	27.2	29	30.8

### Control panel

Model	PW250 (PW1)
	Manual operation
	Automatic operation: start-stop with floats
	Digital display with 6 languages (IT,EN, FR, DE, ES, PT) with:
	Hour meter, Rev counter,
	Battery voltmeter, Fuel level (%)
	Automatic engine shutdown in case of:
	- low oil pressure
	- water overheating
	- low battery voltage
	(engine failure alarms with LED lights and display message)
	Emergency stop button
	Throttle rod
	(PW1 FleetLink control as option)

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## Arrangements

### Technical data

Material	S235JR EN 10025-2 carbon steel
Coatings	Polyester powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	320 l (84.5 USG)

### PAS 100MF 250 CNP



Dimensions	1100 x 2280 x 1560 mm
Dry weight (KL38)	1260 kg
Noise level	63-68 dB(A) @10 m

### PAS 100MF 250 SKID



Dimensions	1070 x 2220 x 1670 mm
Dry weight (KL38)	990kg
Noise level	75-80 dB(A) @10 m