

# PAS 300MF 401 FKL83 CNP

Diesel - Qmax 1,150 m<sup>3</sup>/h (5,060 USgpm) - Hmax 26,5 m (87 ft)



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: 59% (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 100 mm (3.9")

### Diaphragm vacuum pump

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

### Wear plate

Cast iron wear plate that is easily replaceable

### Mechanical shaft seal in oil bath

It allows the "dry running" operation of the pump

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## Performance curves

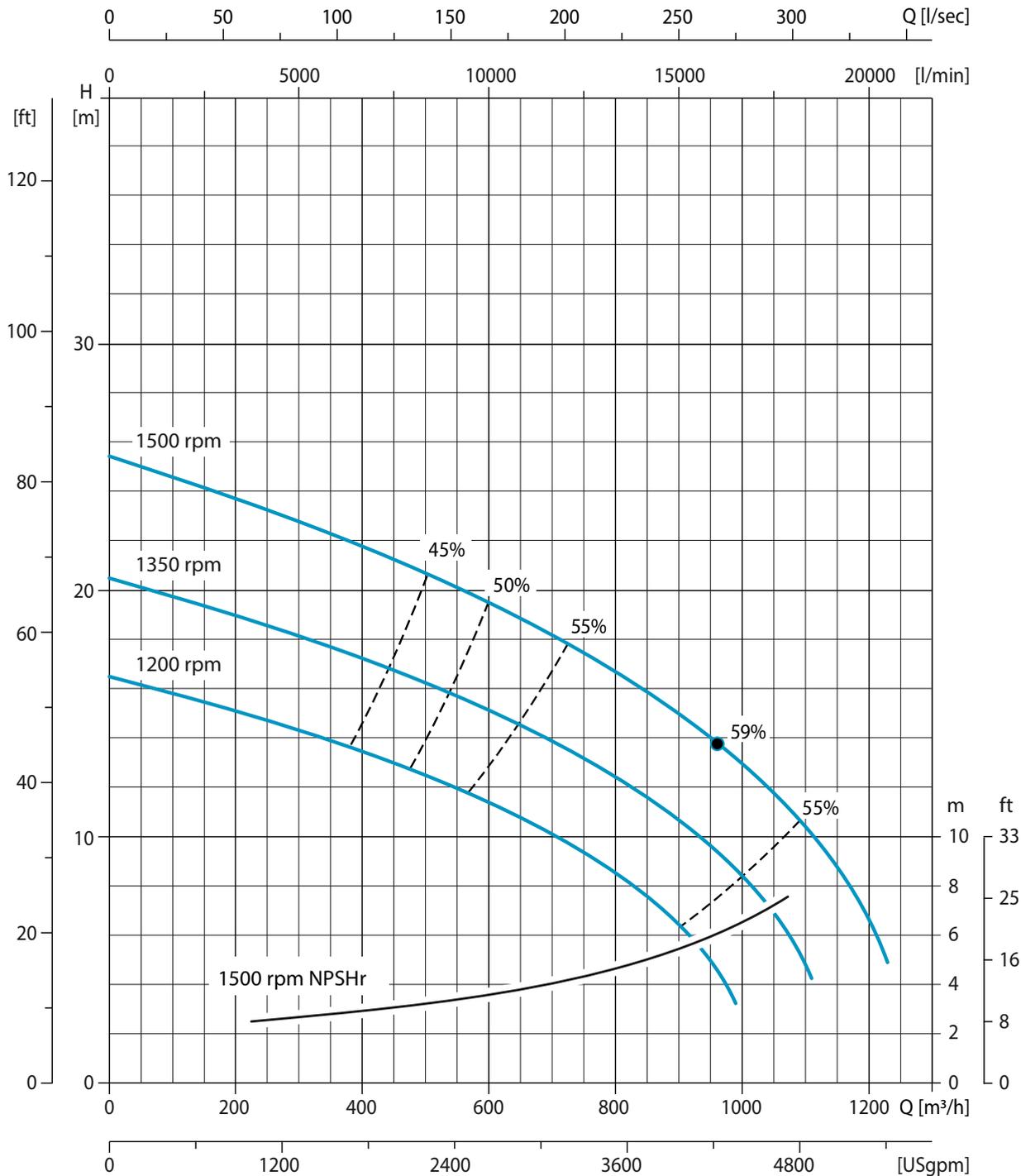
Test according to UNI EN ISO 9906 standard - level 2

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.100 mm (3.9")

Max absorbed power: 64,0 kW - 85.8 HP (1.500 rpm)



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## Technical data

### Pump

Model	PAS 300MF
Qmax	1.150 m <sup>3</sup> /h - 19.170 l/min (5,100 USgpm)
Hmax	26,5 m (87 ft)
Q max eff.	960 m <sup>3</sup> /h - 16.000 l/min (4,200 USgpm)
Eff. max	59 %
Suction port	Flanged - DIN 300
Delivery port	Flanged - DIN 300
Impeller type	Semi-Open, 2 vane
Solids handling	100 mm (3.9 ")
Material	G11
Casing	EN-GJL-200 cast iron
Impeller	EN-GJS-400 ductile iron
Wear plates	EN-GJL-200 cast iron
Number of plates	1
Shaft	34NiCrMo3 steel
Flushing	Yes
Mechanical seal	Tungsten carbide / Tungsten carbide
Elastomers	VITON

### Priming system

Vacuum pump	V22
Vacuum pump type	Diaphragm
Nominal air capacity	85 m <sup>3</sup> /h (50.0 cfm)
Max vacuum	0,9 bar
Separator type	Atlas Copco
Separator material	EN-GJL-200 cast iron
Drives	Link belt

### Engines

Make	Kohler		
Model	KDI 3404TCR (KL83)		
Type	Diesel turbo common rail		
Displacement	3.359 cm <sup>3</sup> (205 in <sup>3</sup> )		
No. cylinders	4		
Cooling	Liquid with radiator		
Rpm type	Variable		
Standard speed	1.500 rpm		
EU emissions	2002/88/CE Stage V		
Starting	Electric		
Starting voltage	12 V		
Oil change interval	500 h		
Speed [rpm]	1200	1350	1500
Consumption [l/h]	12,7	14,6	17,6
Power [kW]	53,1	60,3	70,2
Power [HP]	71.2	80.9	94.1

### Control panel

Model	PW500 (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, Liquid temperature, Oil pressure
	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
	Push-button accelerator (up/down)
	(PW1 FleetLink control as option)

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## Arrangements

Technical data	
Material	S275JR EN 10025-2 carbon steel
Coatings	Polyester powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Features	Painted steel base
Lifting points	Forking slots for forklift, barycentric lifting point
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	420 l (111.0 USG)
Optional supply	(External fuel coupling as option)
Drip pan	462,0 l (122.0 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors

### CNP PAS 300MF



Dimensions	1230 x 2700 x 1810 mm
	48 x 106 x 71 "
H suction port	0,81 m (2.7 ft)
Dry weight (KL83)	2470 kg (5,450 lb)
Noise level	67-72 dB(A) @10 m (32 ft)