

# PAS 100HF 250 FZD09 SKID02

Diesel - Qmax 280 m<sup>3</sup>/h (1,230 USgpm) - Hmax 50 m (164 ft)



## PAS HF - 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 HF 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 HF (high 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 76 mm (3")

### Diaphragm vacuum pump

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

### 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.

### Wear plates

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

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## Performance curves

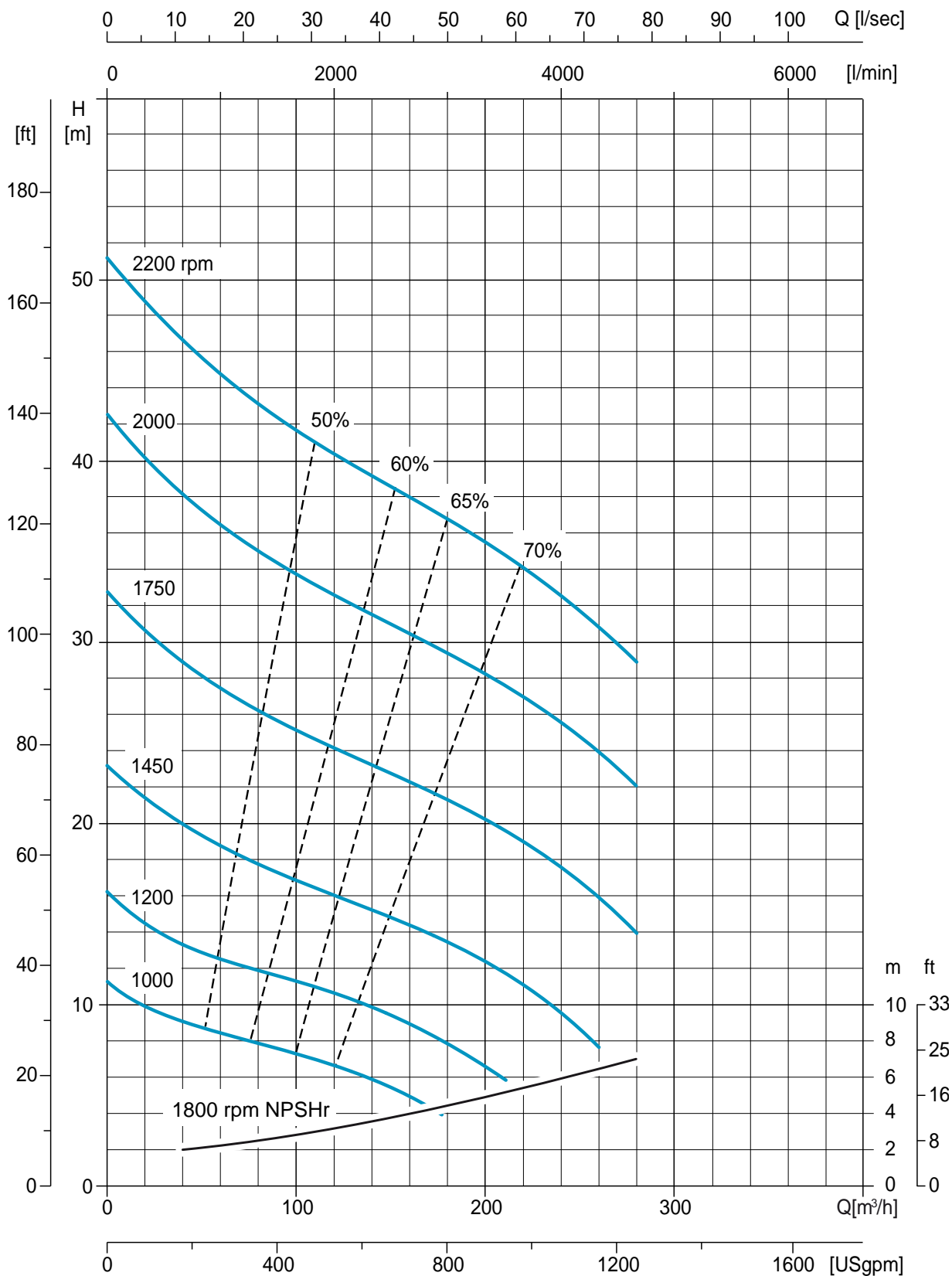
Test according to UNI EN ISO 9906 standard - level 2

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.76 mm (3")

Max absorbed power: 29,0 kW - 38.9 HP (2.200 rpm)



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## Technical data

### Pump

Model	PAS 100HF	
Qmax	280 m <sup>3</sup> /h - 4.670 l/min (1,200 USgpm)	
Hmax	50 m (164 ft)	
Q max eff.	220 m <sup>3</sup> /h - 3.670 l/min (1,000 USgpm)	
Eff. max	70 %	
Suction port	Flanged - DIN 100	
Delivery port	Flanged - DIN 100	
Impeller type	Semi-Open, 2 vane	
Solids handling	76 mm (3.0 ")	
Material	G11	F11
Casing	EN-GJL-200 cast iron	EN-GJL-200 cast iron
Impeller	EN-GJS-500 ductile iron	CF8M stainless steel
Wear plates	EN-GJL-200 rubber lined cast iron	CF8M stainless steel
Number of plates	2	2
Shaft	39NiCrMo4 steel	39NiCrMo4 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

### Engines

Make	Deutz					
Model	F3L2011 (ZD09)					
Type	Diesel direct injection, aspirated					
Displacement	2.330 cm <sup>3</sup> (142 in <sup>3</sup> )					
No. cylinders	3					
Cooling	Air					
Rpm type	Variable					
Standard speed	2.200 rpm					
EU emissions	2002/88/CE Stage II					
US emissions	EPA Tier 2					
Starting	Electric					
Starting voltage	12 V					
Oil change interval	300 h					
Market	LRC					
Speed [rpm]	1200	1400	1600	1800	2000	2200
Consumption [l/h]	4,1	5	5,5	6,2	6,6	7,4
Power [kW]	15,9	19,6	21,9	24,7	26,1	28,9
Power [HP]	21.3	26.3	29.4	33.1	35	38.8

### Control panel

Model	PW250
	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

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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. Hot dip galvanised steel skid and lifting beam. Lockable battery box. Fuel level indicator.
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	355 l (93.8 USG)
Locking keys	Fuel cap

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Dimensions	1070 x 2730 x 1960 mm 42 x 107 x 77 "
H suction port	0,81 m (2.7 ft)
Dry weight (ZD09)	1315 kg (2,900 lb)