

# PAS 150HF 300 FZD61 SKID02

Diesel - Qmax 510 m<sup>3</sup>/h (2,250 USgpm) - Hmax 51 m (167 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 plate

Cast iron or stainless steel (F10) wear plate, that is easily replaceable

# PAS 150HF 300 FZD61 SKID02

## Performance curves

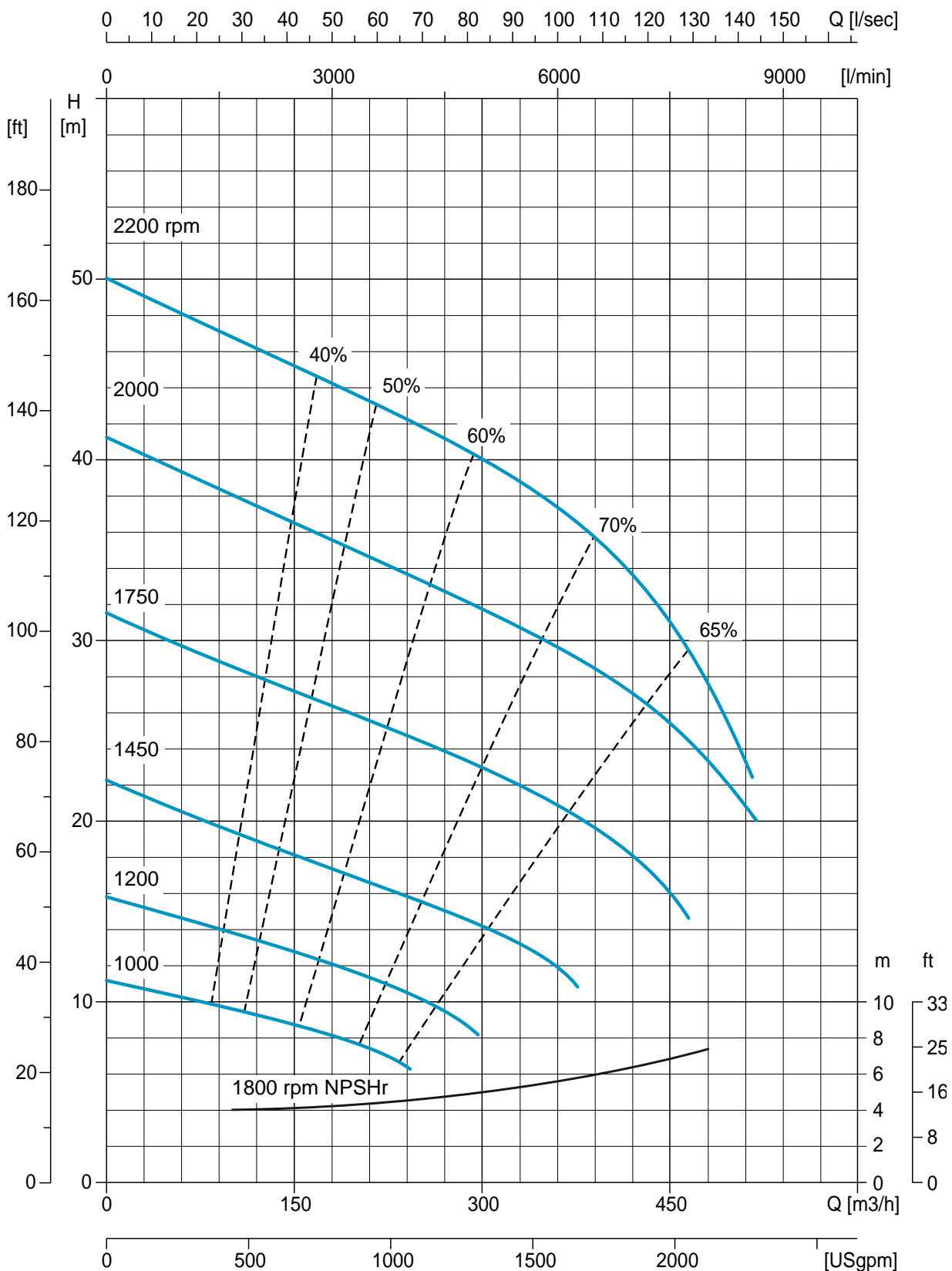
Test according to UNI EN ISO 9906 standard - level 2

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: 51,0 kW - 68.4 HP (2.200 rpm)



# PAS 150HF 300 FZD61 SKID02

## Technical data

### Pump

Model	PAS 150HF	
Qmax	510 m <sup>3</sup> /h - 8.500 l/min (2,200 USgpm)	
Hmax	51 m (167 ft)	
Q max eff.	390 m <sup>3</sup> /h - 6.500 l/min (1,700 USgpm)	
Eff. max	70 %	
Suction port	Flanged - DIN 150	
Delivery port	Flanged - DIN 150	
Impeller type	Semi-Open, 2 vane	
Solids handling	76 mm (3.0 ")	
Material	G10	F10
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 cast iron	CF8M stainless steel
Number of plates	1	1
Shaft	39NiCrMo4 steel	39NiCrMo4 steel
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	F4L914 (ZD61)
Type	Diesel direct injection, aspirated
Displacement	2.630 cm <sup>3</sup> (160 in <sup>3</sup> )
No. cylinders	4
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
Speed [rpm]	

### 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

# PAS 150HF 300 FZD61 SKID02

## 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

SKID02 PAS 150HF



Dimensions	1070 x 2730 x 1960 mm 42 x 107 x 77 "
H suction port	0,81 m (2.7 ft)
Dry weight (ZD61)	1520 kg (3,350 lb)