

PAS 200HF 305 FKL54 SKID02

Diesel - Qmax 850 m³/h (3,740 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: 75% (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

Wear plate

Cast iron or stainless steel (F11) wear plate, that is easily replaceable

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

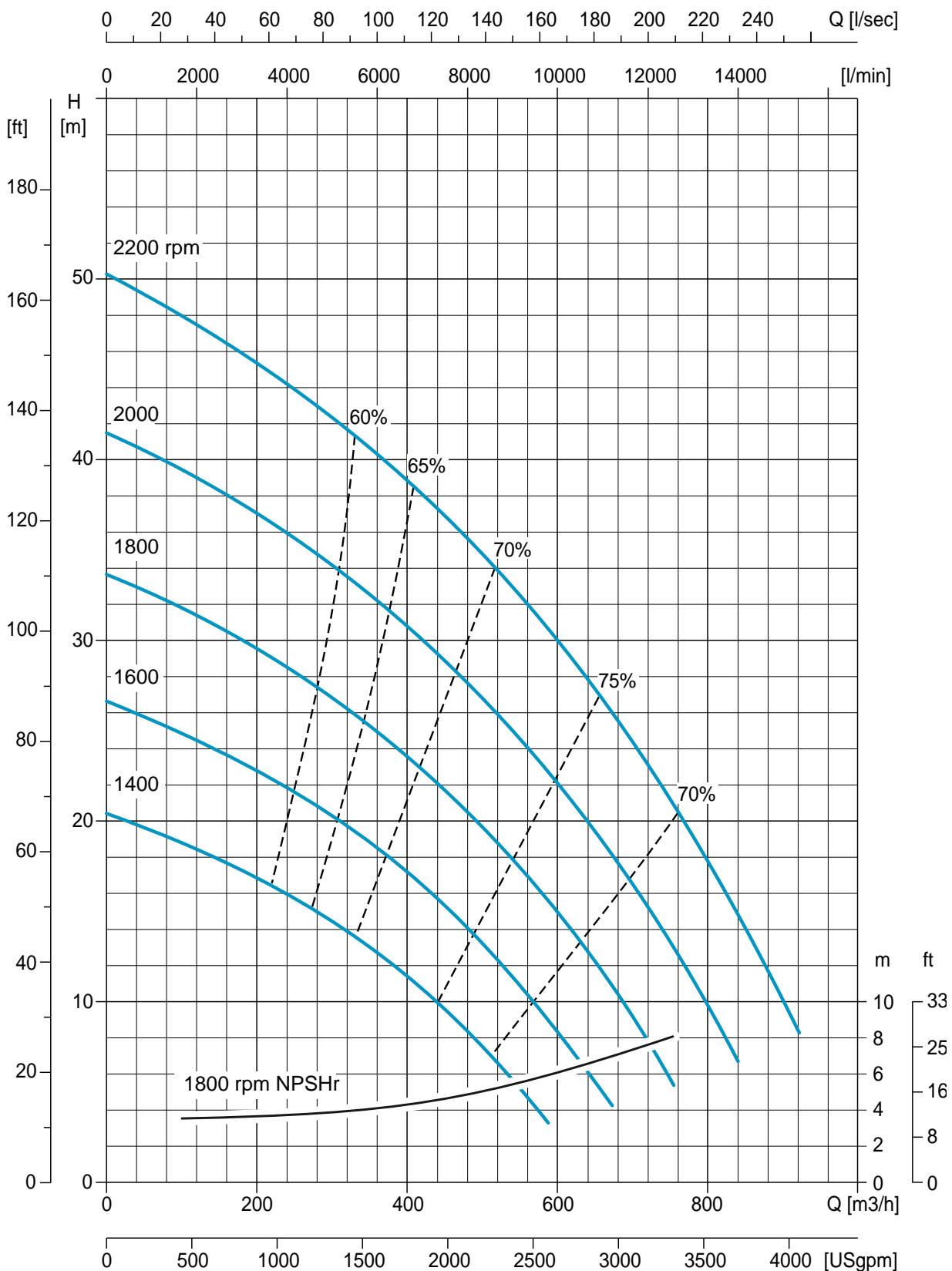
Test according to UNI EN ISO 9906 standard - level 2

Test liquid: clean water, density 1,000 kg/m³

Losses from priming system and check valve not included

Spherical solids handling: D.76 mm (3")

Max absorbed power: 78,0 kW - 104.6 HP (2.200 rpm)



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Technical data

Pump

Model	PAS 200HF	
Qmax	850 m ³ /h - 14.170 l/min (3,700 USgpm)	
Hmax	50 m (164 ft)	
Q max eff.	660 m ³ /h - 11.000 l/min (2,900 USgpm)	
Eff. max	75 %	
Suction port	Flanged - DIN 200	
Delivery port	Flanged - DIN 200	
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 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 ³ /h (29.4 cfm)
Max vacuum	0,9 bar
Separator type	Valmatic
Separator material	EN-GJL-200 cast iron
Drives	Link belt

Engines

Make	Kohler		
Model	KDI 3404TCR (KL54)		
Type	Diesel turbo common rail		
Displacement	3.359 cm ³ (205 in ³)		
No. cylinders	4		
Cooling	Liquid with radiator		
Rpm type	Variable		
Standard speed	2.200 rpm		
EU emissions	2002/88/CE Stage IIIB		
US emissions	EPA Tier 3		
Starting	Electric		
Starting voltage	12 V		
Emissions reduction technology	DOC		
Speed [rpm]	1800	2000	2200
Consumption [l/h]	19,6	21,4	23
Power [kW]	82,4	87,3	90
Power [HP]	110.5	117.1	120.7

Control panel

Model	PW500
	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)

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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	480 l (126.8 USG)
Locking keys	Fuel cap

SKID02 PAS 200HF



Dimensions	1480 x 2930 x 2190 mm 58 x 115 x 86 "
H suction port	0,91 m (3 ft)
Dry weight (KL54)	1975 kg (4,350 lb)