

PAS 100MF 250 FKL17 SKID02

Diesel - Qmax 280 m³/h (1,230 USgpm) - Hmax 36 m (118 ft)



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 plates

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

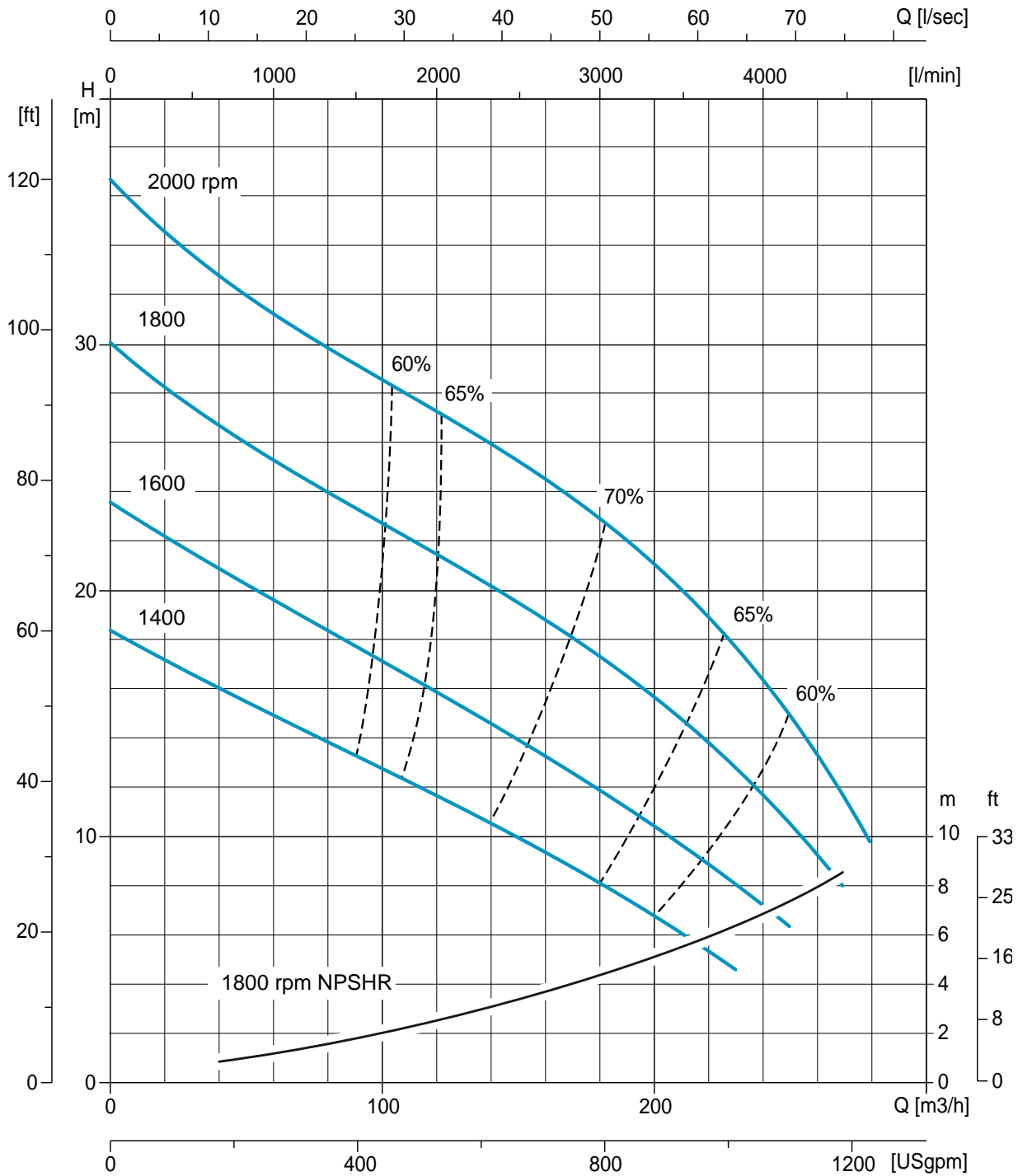
Test according to UNI EN ISO 9906 standard - level 2

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

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	280 m ³ /h - 4.670 l/min (1,200 USgpm)		
Hmax	36 m (118 ft)		
Q max eff.	180 m ³ /h - 3.000 l/min (800 USgpm)		
Eff. max	70 %		
Suction port	Flanged - DIN 100		
Delivery port	Flanged - DIN 100		
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 ³ /h (29.4 cfm)	
Max vacuum	0,9 bar	
Separator type	Superduo	
Separator material	EN-GJL-200 cast iron	
Drives	Link belt	

Engines

Make		Kohler			
Model	KDI 1903M (KL17)				
Type	Diesel direct injection, aspirated				
Displacement	1.861 cm ³ (114 in ³)				
No. cylinders	3				
Cooling	Liquid with radiator				
Rpm type	Variable				
Standard speed	2.000 rpm				
EU emissions	2002/88/CE Stage IIIA				
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	PW100
	Manual operation
	Hour meter
	Engine failure alarms with LED lights in case of:
	- low oil pressure
	- engine overheating
	- lack of battery charging
	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	325 l (85.9 USG)
Locking keys	Fuel cap

SKID02 PAS 100MF



Dimensions	1070 x 2220 x 1670 mm 42 x 87 x 66 "
H suction port	0,74 m (2.4 ft)
Dry weight (KL17)	1050 kg (2,310 lb)