

PAS 150MF 250 FKL69 CNP

Diesel - Qmax 540 m³/h (2,380 USgpm) - Hmax 37 m (121 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: 77% (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

Easy maintenance

Hinged cover for direct access to the impeller (without lifting devices). Link belt quick to replace on the field.

Mechanical shaft seal in oil bath

It allows the "dry running" operation of the pump

Wear plate

Cast iron (G11 rubber lined) or stainless steel wear plate, that is easily replaceable

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Performance curves

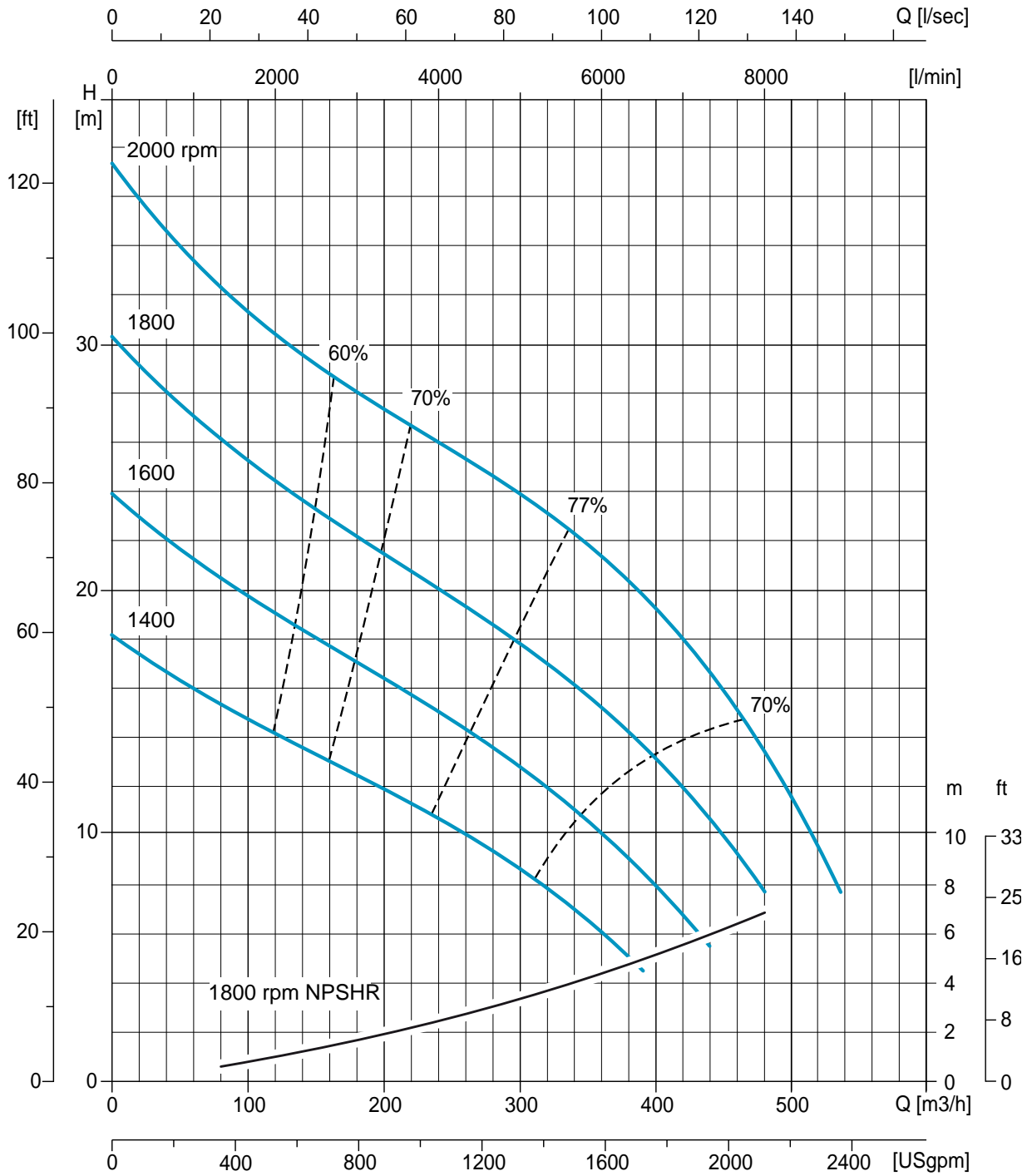
Test according to UNI EN ISO 9906 standard - level 2

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

Losses from priming system and check valve not included

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

Max absorbed power: 27,0 kW - 36.2 HP (2.000 rpm)



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Technical data

Pump

Model	PAS 150MF	
Qmax	540 m ³ /h - 9.000 l/min (2,400 USgpm)	
Hmax	37 m (121 ft)	
Q max eff.	340 m ³ /h - 5.670 l/min (1,500 USgpm)	
Eff. max	77 %	
Suction port	Flanged - DIN 150	
Delivery port	Flanged - DIN 150	
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-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	Valmatic
Separator material	EN-GJL-200 cast iron
Drives	Link belt

Engines

Make	Kohler			
Model	KDI 1903TCR (KL69)			
Type	Diesel turbo common rail			
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 V			
Starting	Electric			
Starting voltage	12 V			
Emissions reduction technology	EGR+DOC+DPF			
Speed [rpm]	1400	1600	1800	2000
Consumption [l/h]	6,7	7,7	8,3	8,4
Power [kW]	27,7	31,7	33,6	34
Power [HP]	37.1	42.5	45.1	45.6

Control panel

Model	PW600 (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 (%)
	Engine regeneration management
	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	S235JR EN 10025-2 carbon steel
Coatings	Polyester powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Features	Painted steel base. Stackable frame
Battery	Acid charge Pb-Ca maintenance free 12 V - 50 Ah - 815 A
Tank	320 l (84.5 USG)
Optional supply	(External fuel coupling as option)
Drip pan	352,0 l (93.0 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors

CNP PAS 150MF 250



Dimensions	1100 x 2280 x 1560 mm 43 x 90 x 61 "
H suction port	0,71 m (2.3 ft)
Dry weight (KL69)	1525 kg (3,360 lb)
Noise level	63-68 dB(A) @10 m (32 ft)