

PAS 80MF 200 FHT42 CNP

Diesel - Qmax 45 L/S - Hmax 19 m



Indicative picture of the product

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, the PAS MF range is also suitable for pumping liquids with solids in suspension

Applications

Varisco have decades of experience in designing and producing pumps. We have put those years of expertise into providing a solutions portfolio that works across multiple applications. The PAS MF (medium head) 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: 68% (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 40 mm (1 1/2")

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 (G11 rubber lined) or stainless steel wear plates, that are 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

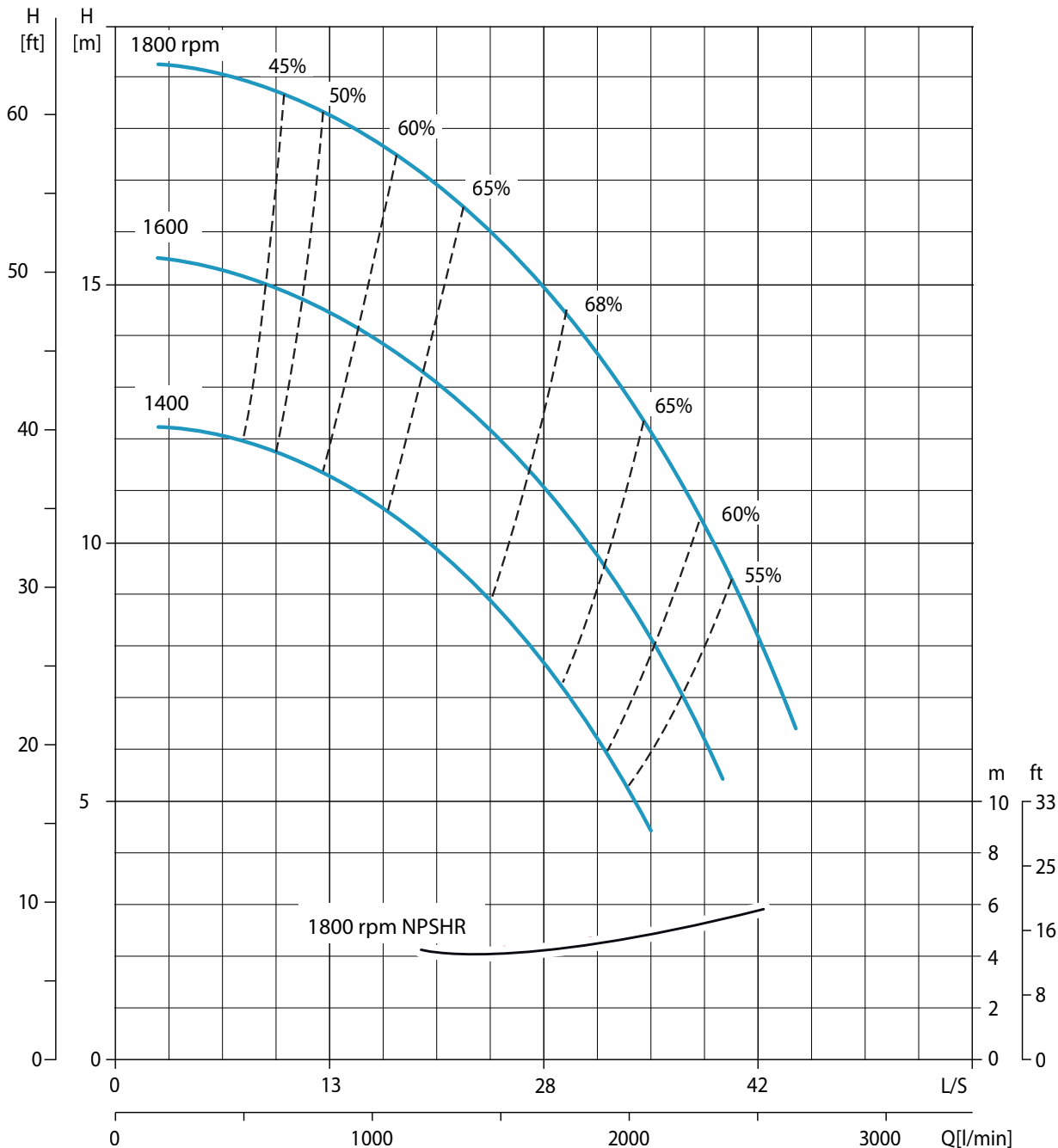
Test according to UNI EN ISO 9906 standard - level 2B

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

Spherical solids handling: D.40 mm (1 1/2")

Priming time: 30 s from 1,5 m (4.9 ft)

Max absorbed power: 7,5 kW – 10.0 HP (1.800 rpm)



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Technical data

Pump

Model	PAS 80MF 200	
Qmax	45 L/S - 2.670 l/min	
Hmax	Hmax 19 m	
Q max eff.	28 L/S - 1.670 l/min	
Eff. max	68%	
Suction port	Flanged - ANSI 80	
Delivery port	Flanged - ANSI 80	
Impeller type	Semi-Open, 3 vane	
Solids handling	40 mm (1 1/2")	
Material	G10	F10
Casing	EN-GJL-200 cast iron	EN-GJL-200 cast iron
Impeller	EN-GJS-500 ductile iron	CF3M stainless steel
Wear rings	EN-GJL-200 rubber lined cast iron	CF3M stainless steel
Number of wear rings	2	2
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	Hatz		
Model	2G40H		
Type	Diesel direct injection, aspirated, four strokes		
Displacement	997 cm ³ (61 in ³)		
No. cylinders	2		
Cooling	Air		
Rpm type	Variable		
Standard speed	1.800 rpm		
EU emissions	Tier IV final		
US emissions	EPA		
Starting	Electric		
Starting voltage	12 V		
Oil change interval	250 h		
Speed [rpm]	1400	1600	1800
Consumption [l/h]	1,3	1,5	1,8
Power [kW]*	6	7,4	8,6
Power [HP]	8	10	11,5

* continuous power ISO 3046 ICXN

Control panel

Model	PW 250
	Manual operation
	Automatic operation: start-stop with transducers or floats
	Digital display with 6 languages (EN, SV, FR, DE, ES, IT) with:
	Hour meter, Rev counter,
	Battery voltmeter, Fuel level (%)
	Automatic engine shutdown in case of:
	- low oil pressure
	- engine overheating
	- low battery voltage
	(engine failure alarms with LED lights and display message)
	Emergency stop button
	Throttle rod

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Arrangement

Technical data

Material	S235JR EN 10025-2 carbon steel
Coatings	Epoxy powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Features	Steel base
Battery	Acid charge Pb-Ca maintenance free, 12 V - 100 Ah - 400 A
Tank	200 l (53 USG)
Drip pan	220 l (58 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors
Noise level	65-70 dB(A) @10 m (32 ft)

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Dimensions	1120 x 1670 x 1240 mm
	(44 x 66 x 49")
H suction port	0,7 m (2.4 ft)
Dry weight	1380 kg (3,040 lb)