

PAS 80MF 202 FHT44 CNP

Diesel - Qmax 160 m³/h (700 USgpm) - Hmax 19 m (62 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: 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 (1.6")

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 (G10 rubber lined) or stainless steel 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

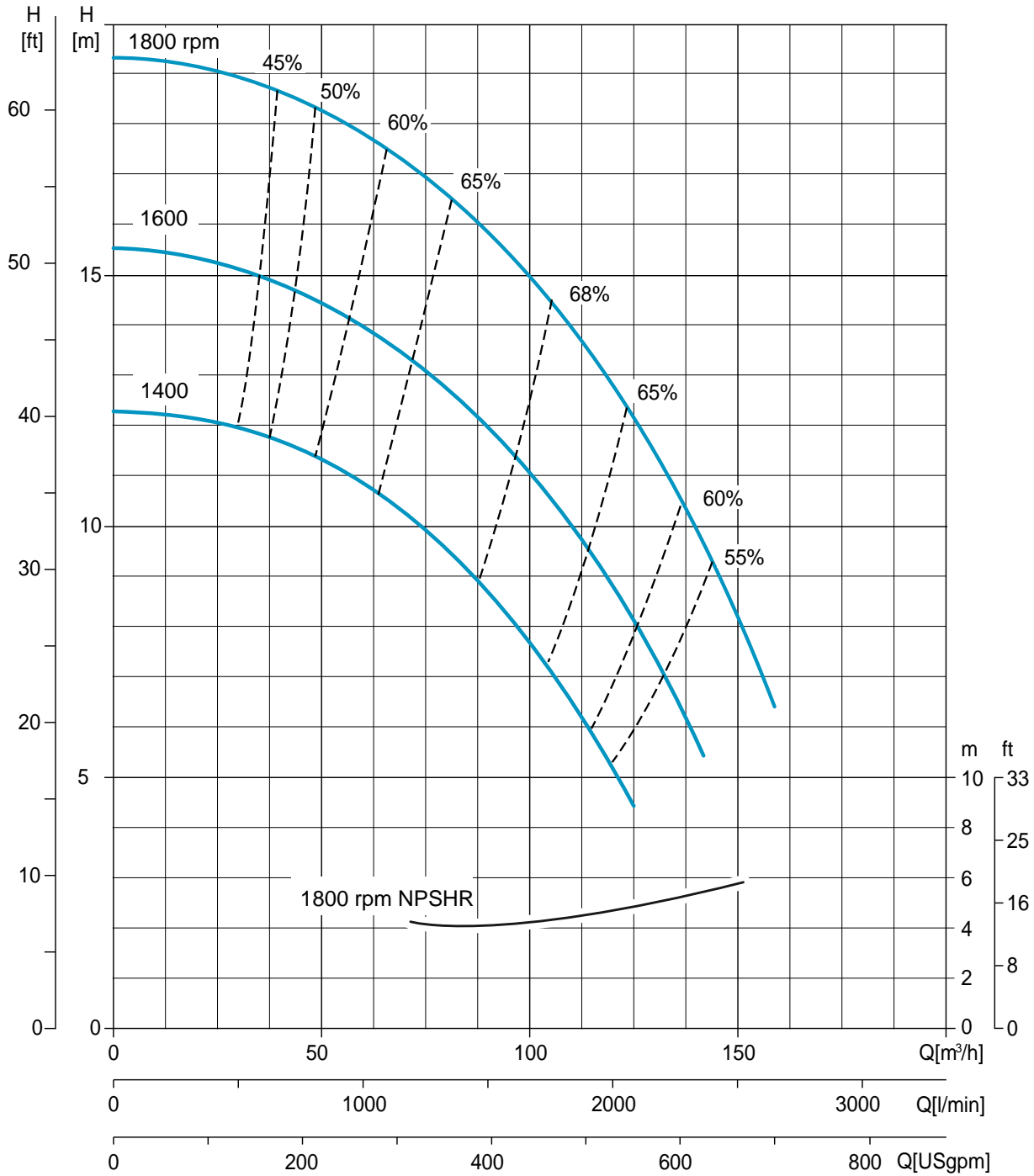
Test according to UNI EN ISO 9906 standard - level 2

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

Spherical solids handling: D.40 mm (1.6")

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

Max absorbed power: 7,5 kW - 10.1 HP (1.800 rpm)



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Technical data

Pump

Model		PAS 80MF
Qmax	160 m ³ /h - 2.670 l/min (700 USgpm)	
Hmax	19 m (62 ft)	
Q max eff.	100 m ³ /h - 1.670 l/min (400 USgpm)	
Eff. max	68 %	
Suction port	Flangiata - DIN 80	
Delivery port	Flangiata - DIN 80	
Impeller type	Semi-Open, 2 vane	
Solids handling	40 mm (1.6 ")	
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 rubber lined cast iron	CF8M stainless steel
Number of plates	2	2
Shaft	39NiCrMo3 steel	SAF 2205 stainless 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	2G40 (HT44)		
Type	Diesel direct injection, aspirated		
Displacement	997 cm ³ (61 in ³)		
No. cylinders	2		
Cooling	Air		
Rpm type	Variable		
Standard speed	1.800 rpm		
EU emissions	2002/88/CE Stage V		
Starting	Electric		
Starting voltage	12 V		
Speed [rpm]	1400	1600	1800
Consumption [l/h]	1,3	1,5	1,8
Power [kW]	6	7,4	8,6
Power [HP]	8	9,9	11,5

Control panel

Model	PW250 (PW1)
	Manual operation
	Automatic operation: start-stop with transducers or 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
	(PW1 FleetLink control as option)

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Arrangements

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. Hot dip galvanised steel skid.
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	200 l (52.8 USG)
Optional supply	(External fuel coupling as option)
Drip pan	220,0 l (58.1 USG) (110% of the total volume of the tank)
Emergency stop	Outside the canopy
Locking keys	Control panel door and canopy doors

CNP PAS 80MF



Dimensions	1170 x 1860 x 1480 mm 46 x 73 x 58 "
H suction port	0,7 m (2.3 ft)
Dry weight (HT44)	900 kg (1,980 lb)
Noise level	65-70 dB(A) @10 m (32 ft)