

# PAS 80MF 202 FHT44 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 vacuum pump - making automatic priming possible. The machine quickly removes the air from the suction pipe and begins to pump, even at suction heights of several metres. The PAS MF series is also appropriate for pumping liquids with suspended solids because of the semi-open impeller.

## 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

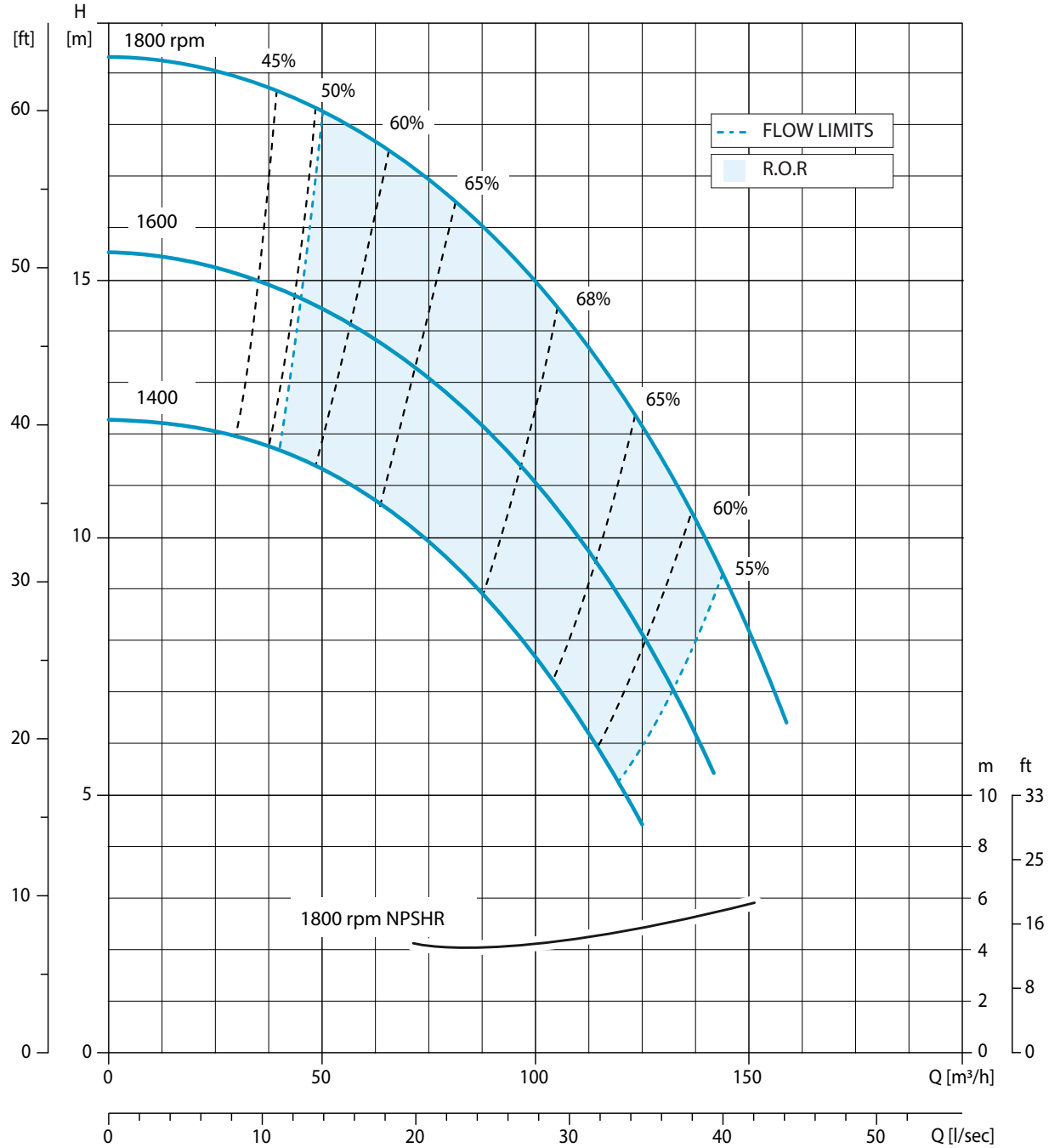
Test according to UNI EN ISO 9906 standard - level 2

Test liquid: clean water, density 1,000 kg/m<sup>3</sup>

Losses from priming system and check valve not included

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

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



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## Technical data

### Pump

Model	PAS 80MF	
Qmax	45 l/s - 160 m <sup>3</sup> /h - 2.670 l/min (700 USgpm)	
Hmax	19 m (62 ft)	
Q max eff.	28 l/s - 100 m <sup>3</sup> /h - 1.670 l/min (440 USgpm)	
Eff. max	68 %	
Suction port	Flanged - 80 TABLE E (AS 2129)	
Delivery port	Flanged - 80 TABLE E (AS 2129)	
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 <sup>3</sup> /h (29.4 cfm)
Max vacuum	0,9 bar
Separator type	Valmatic
Separator material	EN-GJL-200 cast iron
Drives	Link belt

### Engine

Make	Hatz	
Model	2G40 (HT44)	
Type	Diesel direct injection, aspirated	
Displacement	997 cm <sup>3</sup> (61 in <sup>3</sup> )	
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	1800
Consumption [l/h]	1,3	1,5
Power [kW]	6	7,4
Power [HP]	8	9,9

### 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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## 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	Painted steel base. Stackable frame.
Battery	Acid charge Pb-Ca maintenance free 12V - 100 Ah - 400 A
Tank	200 l (52.8 USG)
Optional supply	(External fuel connection 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	900 kg (1,980 lb)
Noise level	65-70 dB(A) @10 m (32 ft)

Specification is subject to change without prior notice. Please check with your local Atlas Copco representative for the latest specifications.

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