

PAS 300MF 401 FZD12 SKID02

Diesel - Qmax 1,150 m³/h (5,060 USgpm) - Hmax 26,5 m (87 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: 59% (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 100 mm (3.9")

Diaphragm vacuum pump

Oil free suitable for dry running: no contamination of the environment

Wear plate

Cast iron wear plate that is easily replaceable

Mechanical shaft seal in oil bath

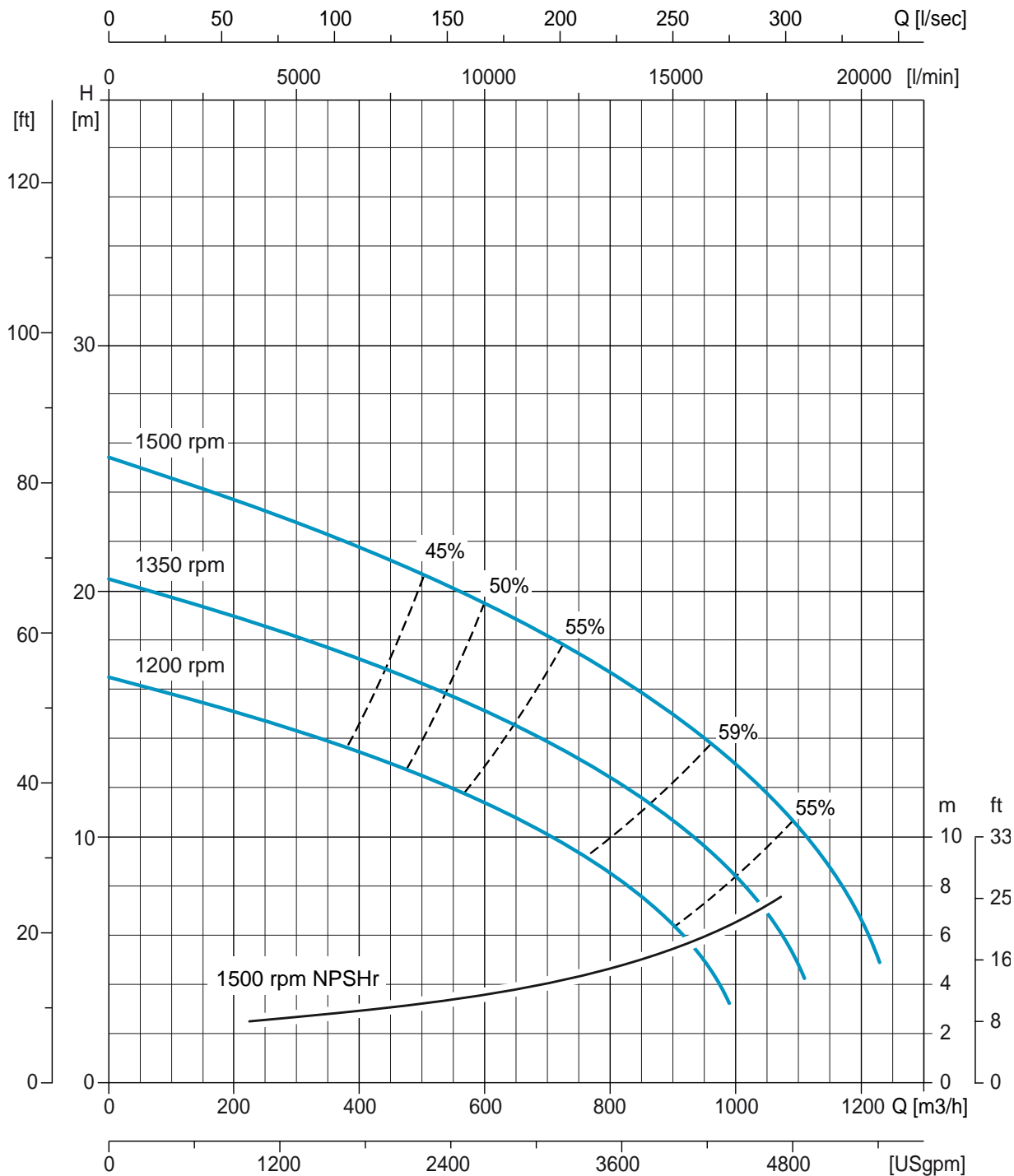
It allows the "dry running" operation of the pump

PAS 300MF 401 FZD12 SKID02

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.100 mm (3.9")
 Max absorbed power: 64,0 kW - 85.8 HP (1.500 rpm)



PAS 300MF 401 FZD12 SKID02

Technical data

Pump

Model	PAS 300MF
Qmax	1.150 m ³ /h - 19.170 l/min (5,100 USgpm)
Hmax	26,5 m (87 ft)
Q max eff.	960 m ³ /h - 16.000 l/min (4,200 USgpm)
Eff. max	59 %
Suction port	Flanged - DIN 300
Delivery port	Flanged - DIN 300
Impeller type	Semi-Open, 2 vane
Solids handling	100 mm (3.9 ")
Material	G11
Casing	EN-GJL-200 cast iron
Impeller	EN-GJS-400 ductile iron
Wear plates	EN-GJL-200 cast iron
Number of plates	1
Shaft	39NiCrMo3 steel
Flushing	Yes
Mechanical seal	Tungsten carbide / Tungsten carbide
Elastomers	VITON

Priming system

Vacuum pump	V70
Vacuum pump type	Diaphragm
Nominal air capacity	85 m ³ /h (50.0 cfm)
Max vacuum	0,9 bar
Separator type	Superduo
Separator material	EN-GJL-200 cast iron
Drives	Link belt

Engines

Make	Deutz					
Model	BF6L914 (ZD12)					
Type	Diesel direct injection, turbocharged					
Displacement	6.500 cm ³ (397 in ³)					
No. cylinders	6					
Cooling	Air					
Rpm type	Variable					
Standard speed	1.500 rpm					
EU emissions	2002/88/CE Stage II					
US emissions	EPA Tier 2					
Starting	Electric					
Starting voltage	12 V					
Oil change interval	300 h					
Speed [rpm]	1000	1100	1200	1300	1400	1500
Consumption [l/h]	10,3	13,1	15,4	17,3	19	20,4
Power [kW]	41,9	53,1	62,4	69,8	76,3	81,9
Power [HP]	56.2	71.2	83.7	93.6	102.3	109.8

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

PAS 300MF 401 FZD12 SKID02

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 skid. Hot dip galvanised steel lifting beam. Lockable battery box. Fuel level indicator.
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	420 l (111.0 USG)
Locking keys	Fuel cap

SKID02 PAS 300MF



Dimensions	1070 x 3310 x 1850 mm 42 x 130 x 73 "
H suction port	0,81 m (2.7 ft)
Dry weight (ZD12)	1910 kg (4,210 lb)