

PAS 300 HF 440 FSC01 T2

Diesel - Qmax 625 l/s - Hmax 86 m



Indicative picture of the product

PAS HF - 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 HF 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 a solutions portfolio that works across multiple applications. The PAS HF (high 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: 74% (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 89 mm (3.5")

Diaphragm vacuum pump

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

Mechanical shaft seal in oil bath

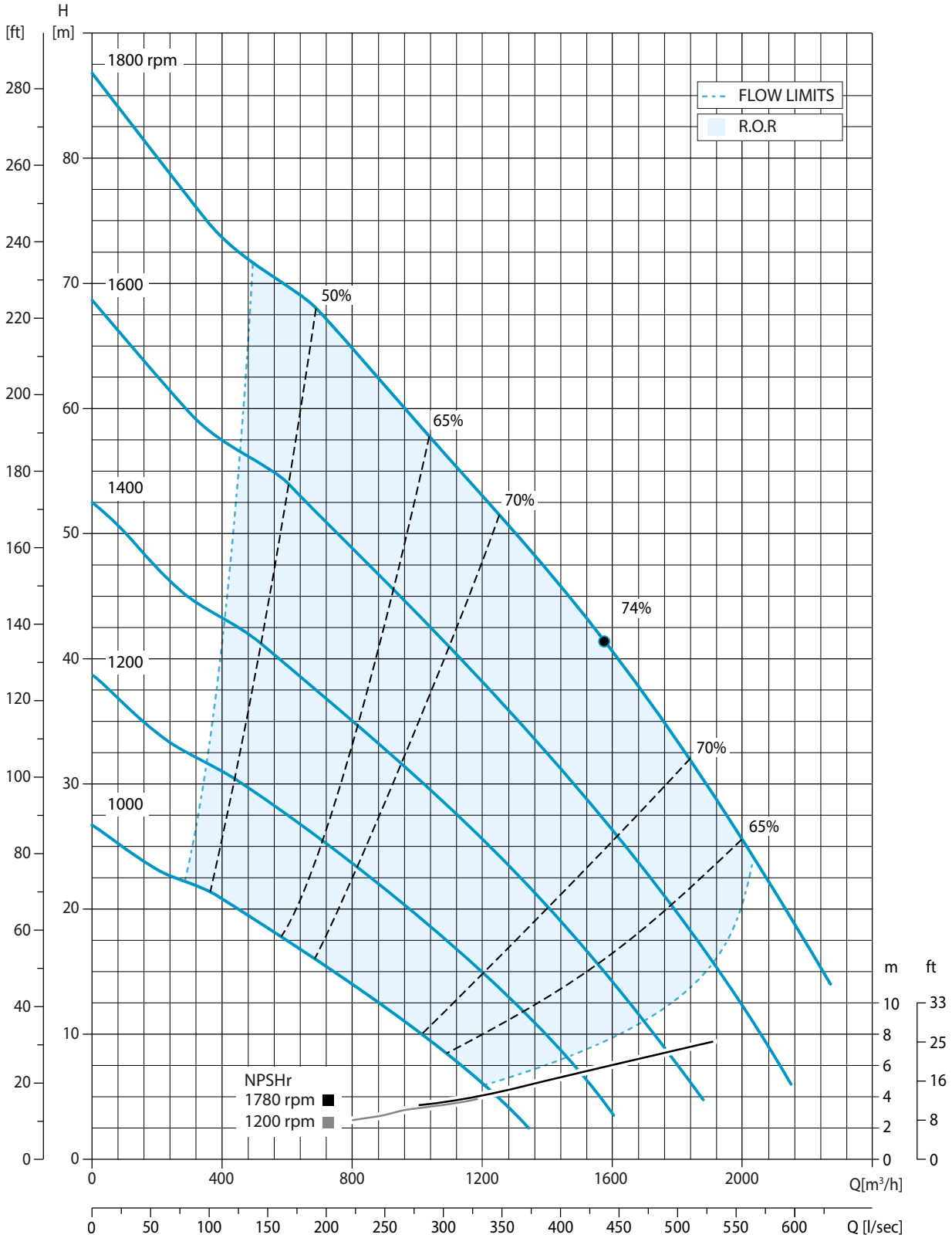
It allows the "dry running" operation of the pump

PAS 300 HF 440 FSC01 T2

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.89 mm (3.5")
 Max absorbed power: 195,0 kW - 261.5 HP (1.600 rpm)



PAS 300 HF 440 FSC01 T2

Technical data

Pump

Model	PAS 300HF 440
Qmax	625 l/s - 2.250 m ³ /h - 37.500 l/min (9,900 USgpm)
Hmax	86 m (285 ft)
Q max eff.	444 l/s - 1.600 m ³ /h - 26.670 l/min (7,000 USgpm)
Eff. max	74 %
Suction port	Flanged - DIN 300
Delivery port	Flanged - DIN 300
Impeller type	Semi-Open, 2 vane
Solids handling	89 mm (3.5 ")
Material	G11
Casing	ASTM A536 ductile iron
Impeller	ASTM A743 CA6NM
Wear plates	ASTM A48 Class 20 cast iron
Number of plates	1
Shaft	AISI 630 stainless steel
Mechanical seal	Silicon carbide / Tungsten carbide
Elastomers	VITON

Priming system

Vacuum pump	V22
Vacuum pump type	Diaphragm
Nominal air capacity	85 m ³ /h (50.0 cfm)
Max vacuum	0,9 bar
Separator type	-
Separator material	EN-GJL-200 cast iron
Drives	Link belt

Engines

Make	Scania			
Model	DC09 074A (SC02)			
Type	Diesel turbo			
Displacement	9.300 cm ³ (568 in ³)			
No. cylinders	5			
Cooling	Liquid with radiator			
Rpm type	Variable			
Standard speed	1800 rpm			
EU emissions	Tier 2			
Starting	Electric			
Starting voltage	24 V			
Speed [rpm]	1200	1400	1600	1800
Consumption [l/h]	43,1	64,2	66,3	66,9
Power [kW]*	184,0	270	276	276
Power [HP]	246.7	362.1	370.1	370.1

* continuous power ISO 3046 ICXN

Control panel

Model	PW500 (PW1)
	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, Liquid temperature, Oil pressure
	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
	Push-button accelerator (up/down)
	(PW1 FleetLink control as option)

PAS 300 HF 440 FSC01 T2

Arrangement

Technical data

Material	S275JR EN 10025-2 carbon steel
Coatings	Polyester powder, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Battery	N°2 batteries - Acid charge Pb-Ca maintenance free
Tank	12 V - 100 Ah - 400 A
	650 l

CNP PAS 300HF



Dimensions	1500 x 4000 x 2100 mm
	60 x 157 x 82"
H suction port	0,81 m (2.7 ft)
Dry weight	4500 kg (9920 lb)

SKID PAS 300HF



Dimensions	1970 x 3250 x 2150 mm
	77 x 128 x 84"
H suction port	0,81 m (2.7 ft)
Dry weight	4000 kg (8818 lb)