

VAR 8-305 FZD43 SKID02

Diesel - Qmax 560 m³/h (2,470 USgpm) - Hmax 35 m (115 ft)



VAR - Self-priming centrifugal pumps

These self-priming centrifugal pumps are for applications where the main feature is the difficulty in priming. Even with suction heights of several meters the machine quickly evacuates the air from the suction pipe and starts pumping. Additionally, thanks to the semi-open impeller, the VAR 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 VAR 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

Rapid self-priming

Without foot valve up to a height of 7.5 m (24.5 ft)

High resistance

To abrasive liquids and turbid sandy waters

Semi-open impeller

Solids handling up to 76 mm (3")

Easy maintenance

Removable front cover for direct access to the impeller

Wear plate

Cast iron (G10 rubber lined) or stainless steel wear plate, that is easily replaceable

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Performance curves

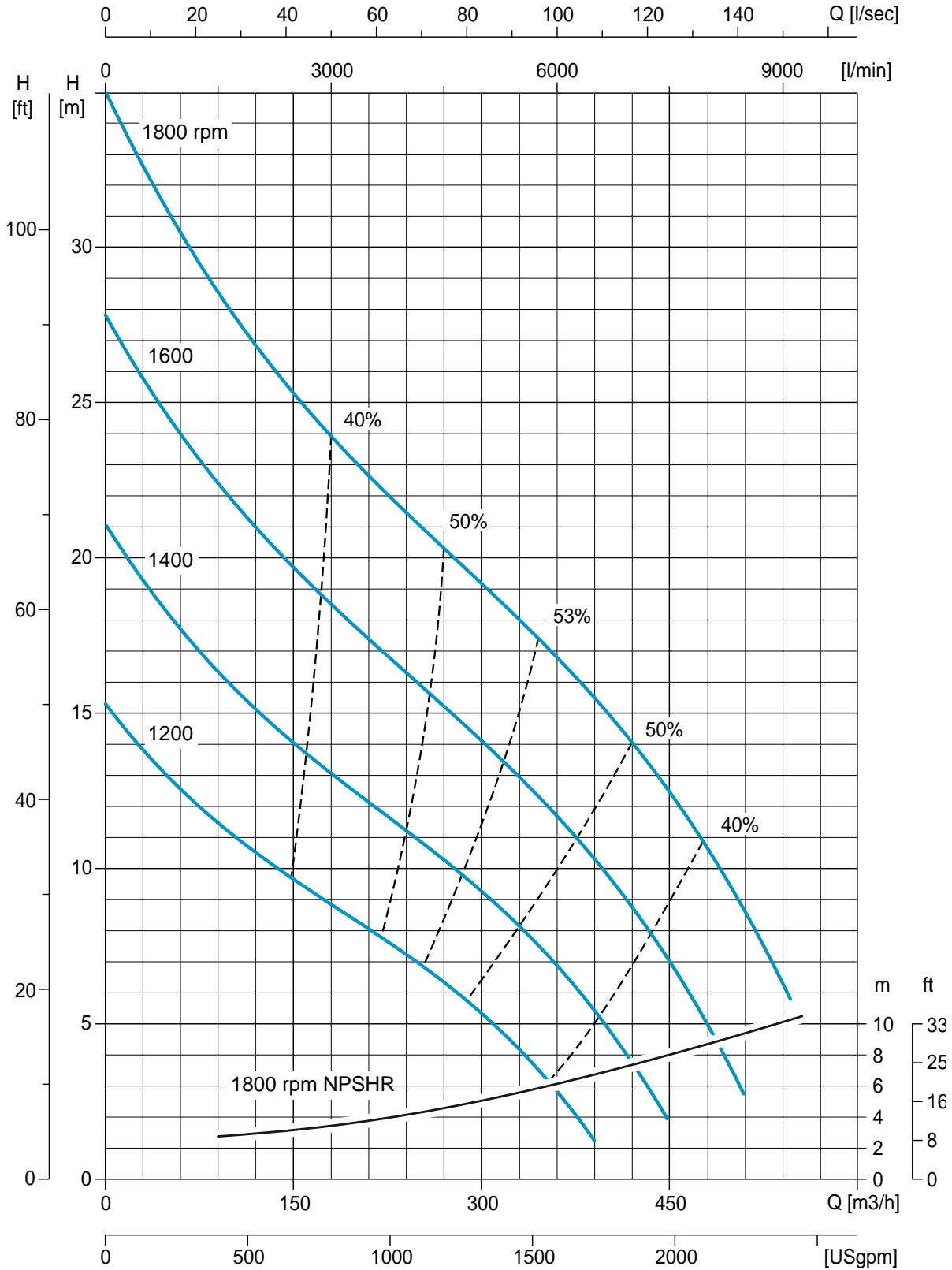
Test according to UNI EN ISO 9906 standard - level 2

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

Losses from check valve not included

Spherical solids handling: D.76 mm (3")

Max absorbed power: 31,0 kW - 41.6 HP (1.800 rpm)



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Technical data

Pump

Model		VAR 8-305
Qmax	560 m ³ /h - 9.330 l/min (2,500 USgpm)	
Hmax	35 m (115 ft)	
Q max eff.	360 m ³ /h - 6.000 l/min (1,600 USgpm)	
Eff. max	53 %	
Suction port	Flanged - DN 200 UNI 6082 (8")	
Delivery port	Flanged - DN 200 UNI 6082 (8")	
Impeller type	Semi-Open, 2 vane	
Solids handling	76 mm (3.0 ")	
Material	G10	F10
Casing	EN-GJL-200 cast iron	EN-GJL-200 cast iron
Impeller	EN-GJS-400 ductile iron	CF8M stainless steel
Wear plates	EN-GJL-200 rubber lined cast iron	CF8M stainless steel
Number of plates	1	1
Shaft	39NiCrMo3 steel	AISI 329 stainless steel
Mechanical seal	Silicon carbide / Silicon carbide	Silicon carbide / Silicon carbide
Elastomers	NBR	VITON

Engines

Make		Deutz	
Model	D2011L04I (ZD43)		
Type	Diesel direct injection, aspirated		
Displacement	3.620 cm ³ (221 in ³)		
No. cylinders	4		
Cooling	Air		
Rpm type	Variable		
Standard speed	1.800 rpm		
EU emissions	2002/88/CE Stage 3A		
US emissions	EPA Tier III		
Starting	Electric		
Starting voltage	12 V		
Oil change interval	300 h		
Market	UE		
Speed [rpm]	1400	1600	1800
Consumption [l/h]	5,8	6,5	7,6
Power [kW]	23,9	27	30,6
Power [HP]	32.1	36.2	41

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

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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 base. Hot dip galvanised steel skid and 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 VAR 8-305



Dimensions	1070 x 3310 x 1850 mm 42 x 130 x 73 "
H suction port	1,07 m (3.5 ft)
Dry weight (ZD43)	1405 kg (3,100 lb)