

VAR 4-250 FKL17 SKID02

Diesel - Qmax 180 m³/h (790 USgpm) - Hmax 40 m (131 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 50 mm (2")

Easy maintenance

Removable front cover for direct access to the impeller

Wear plates

Cast iron (G11 rubber lined) or stainless steel wear plates, that are easily replaceable

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Performance curves

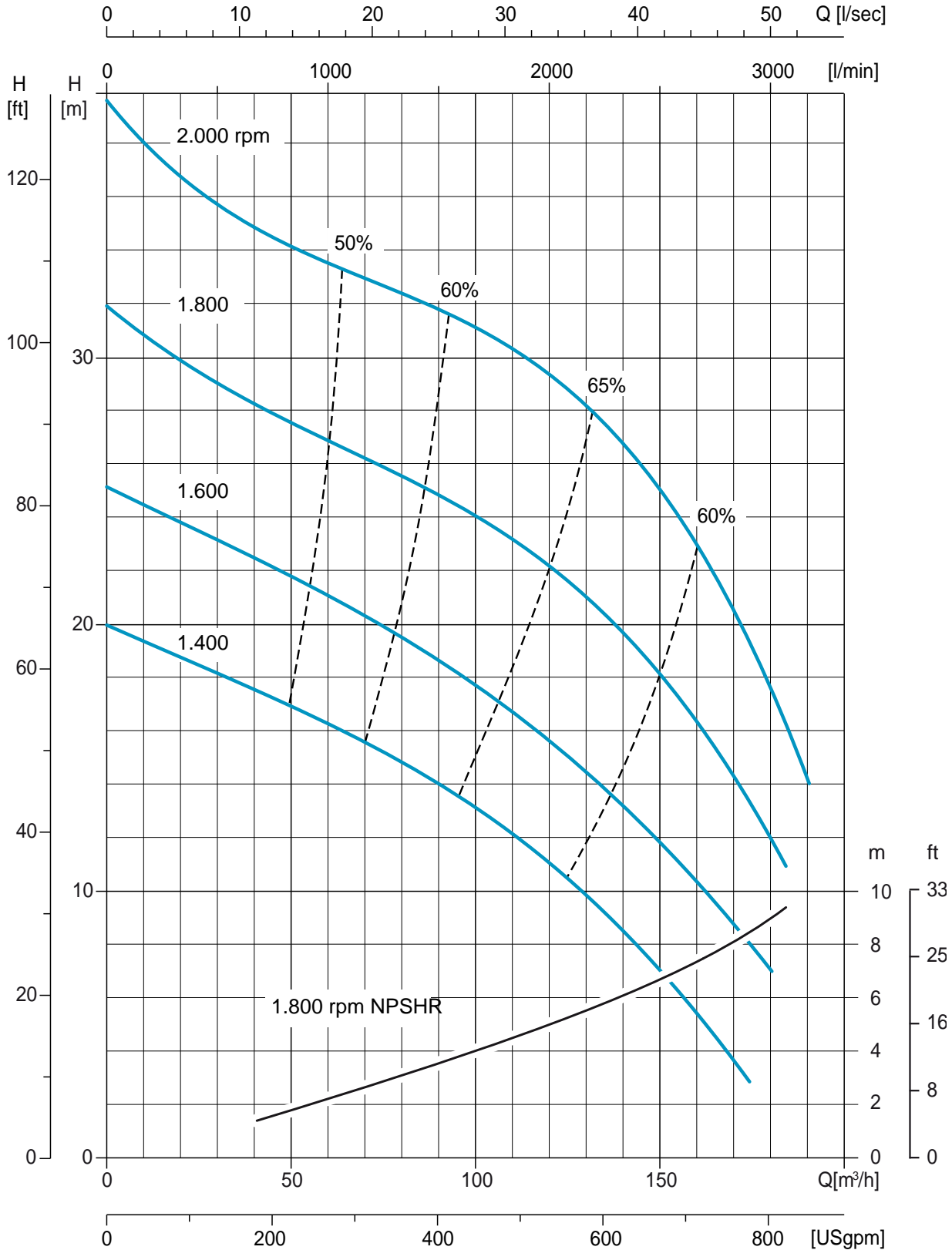
Test according to UNI EN ISO 9906 standard - level 2

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

Losses from check valve not included

Spherical solids handling: D.50 mm (2")

Max absorbed power: 16,5 kW - 22.1 HP (2.000 rpm)



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Technical data

Pump

Model	VAR 4-250	
Qmax	180 m ³ /h - 3.000 l/min (800 USgpm)	
Hmax	40 m (131 ft)	
Q max eff.	132 m ³ /h - 2.200 l/min (600 USgpm)	
Eff. max	65 %	
Suction port	Threaded - 4" BSP	
Delivery port	Threaded - 4" BSP	
Impeller type	Semi-Open, 2 vane	
Solids handling	50 mm (2.0 ")	
Material	G11	F11
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	2	2
Shaft	39NiCrMo3 steel	SAF 2205 stainless steel
Flushing	Yes	Yes
Mechanical seal	Silicon carbide / Silicon carbide	Silicon carbide / Silicon carbide
Elastomers	NBR	VITON

Engines

Make	Kohler			
Model	KDI 1903M (KL17)			
Type	Diesel direct injection, aspirated			
Displacement	1.861 cm ³ (114 in ³)			
No. cylinders	3			
Cooling	Liquid with radiator			
Rpm type	Variable			
Standard speed	2.000 rpm			
EU emissions	2002/88/CE Stage IIIA			
US emissions	EPA Tier 3			
Starting	Electric			
Starting voltage	12 V			
Speed [rpm]	1400	1600	1800	2000
Consumption [l/h]	4,4	5,1	5,4	5,8
Power [kW]	17,6	20,3	21,6	23
Power [HP]	23.6	27.2	29	30.8

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

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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	300 l (79.3 USG)
Locking keys	Fuel cap

SKID02 VAR 4-250



Dimensions	1070 x 2220 x 1670 mm 42 x 87 x 66 "
H suction port	0,89 m (2.9 ft)
Dry weight (KL17)	935 kg (2,060 lb)