R100 WP FKL79 G11 TRAILER

Diesel - Qmax 180 m^3/h (790 USgpm) - Hmax 32 m (105 ft)



Provisional picture of the product

WP - 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 WP 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 expertize into providing a solutions portfolio that works across multiple applications. The WP 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 "dry" 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

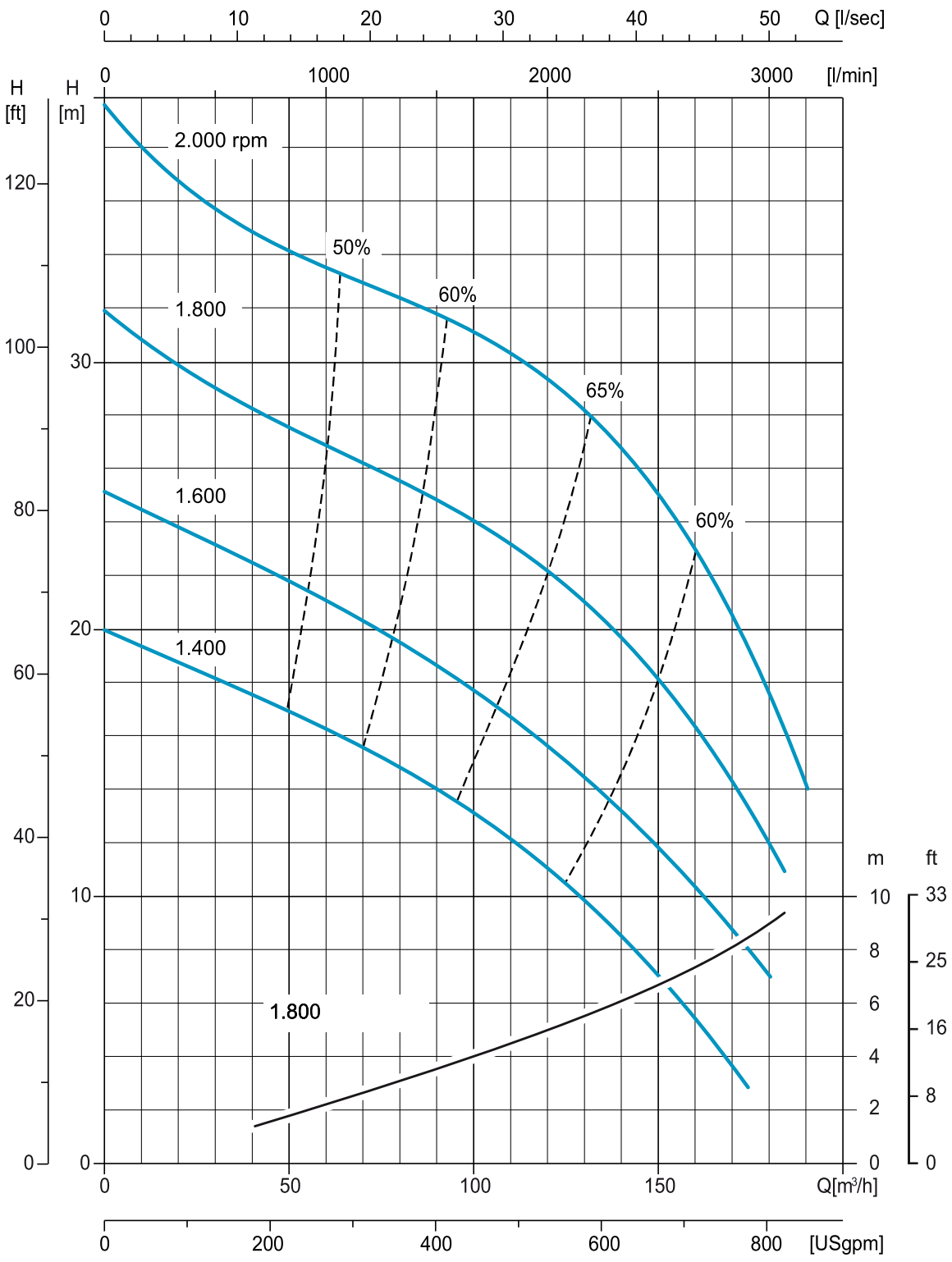
Wear plate
Cast iron rubber lined wear plates, that are easily replaceable.

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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	R 100
Qmax	180 m³/h - 3.000 l/min (800 USgpm)
Hmax	40 m (131 ft)
Q max eff.	132 m³/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**
Casing	EN-GJL-200 cast iron
Impeller	EN-GJS-400 ductile iron
Wear plates	EN-GJL-200 cast iron
Number of plates	2
Shaft	39NiCrMo3 steel
Flushing	Yes
Mechanical seal	Silicon carbide / Silicon carbide
Elastomers	NBR

Engine

Make	Kohler	
Model	KDW 1404	
Type	Diesel direct injection, aspirated	
Displacement	1.372 cm³ (84 in³)	
No. cylinders	3	
Cooling	Liquid with radiator	
Rpm type	Variable	
Standard speed	1.800 rpm	
EU emissions	2002/88/CE Stage V	
Starting	Electric	
Starting voltage	12 V	
Speed [rpm]	**1600**	**1800**
Consumption [l/h]	2,5	3,2
Power [kW]	10,2	12,7
Power [HP]	13.7	17.1

Control panel

Model	KDW
	Manual operation
	Hour meter
	Automatic engine shutdown in case of: - low oil pressure - water overheating - low battery voltage
	Throttle rod

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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	Acid charge Pb-Ca maintenance free 12 V - 110 Ah - 400 A
Tank	150 l (39,6 USG)
Locking keys	Fuel cap

TRAILER R100 WP



Dimensions	1950 x 1600 x 1750 mm
H suction port	1,10 m
Dry weight	655 kg