

VAR 4-159

Diesel - Qmax 180 m³/h (790 USgpm) - Hmax 21,5 m (71 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 a solutions portfolio that works 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 45 mm (1.8")

Easy maintenance

Removable front cover for direct access to the impeller

Wear plate

Cast iron (G10 rubber lined) or stainless steel wear plate, 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

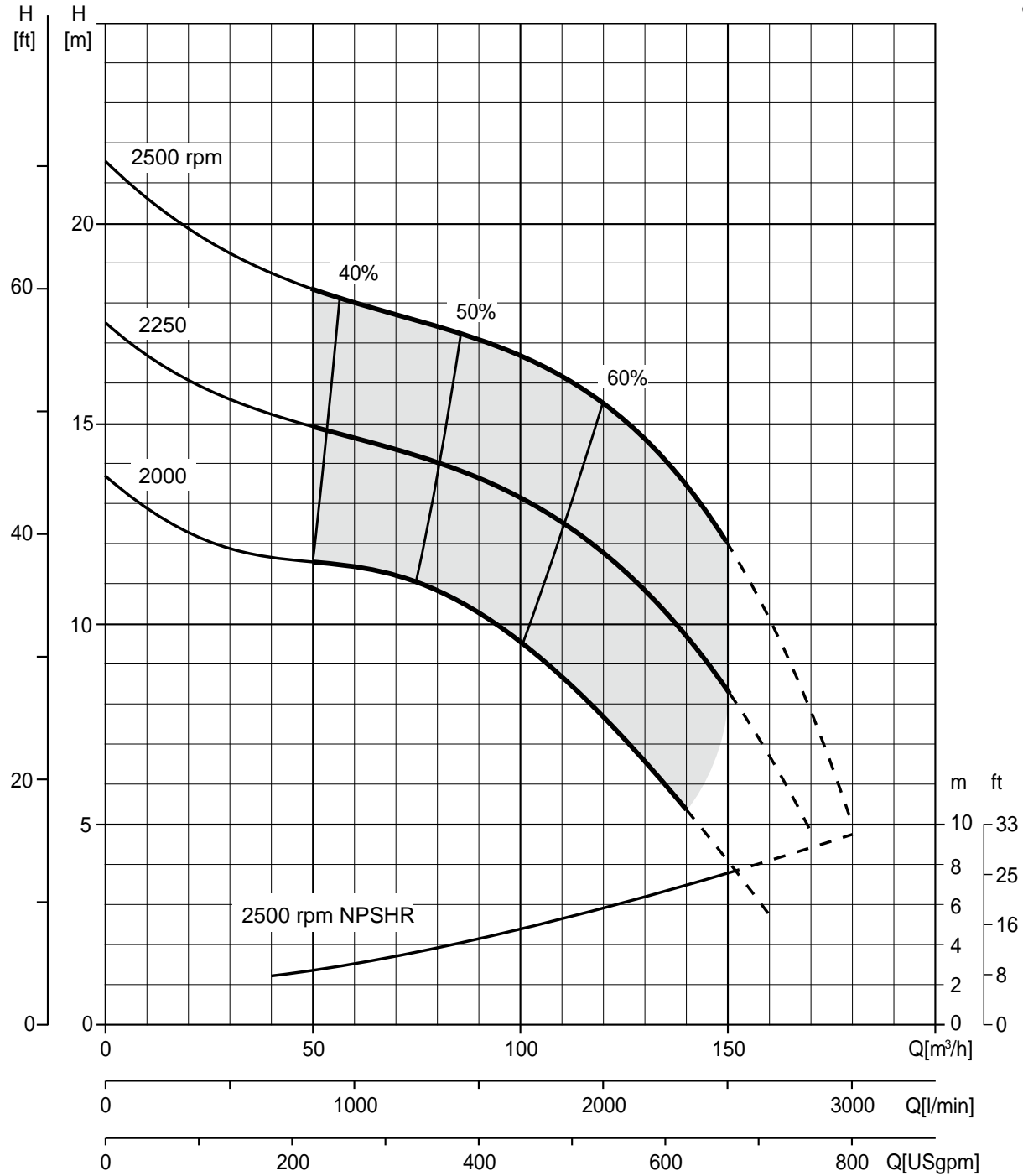
Spherical solids handling: D.45 mm (1.8")

Priming time: 35 s from 1,5 m (4.9 ft)

Max absorbed power: 10,0 kW - 13.4 HP (2.500 rpm)



Recommended operating range



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Technical data

Pump

Model	VAR 4-159
Qmax	180 m ³ /h - 3.000 l/min (800 USgpm)
Hmax	21,5 m (71 ft)
Q max eff.	120 m ³ /h - 2.000 l/min (500 USgpm)
Eff. max	60 %
Suction port	Threaded - 4" BSP
Delivery port	Threaded - 4" BSP
Impeller type	Semi-Open, 3 vane
Solids handling	45 mm (1.8 ")
Material	G10
Casing	EN-GJL-200 cast iron
Impeller	EN-GJL-200 cast iron
Wear plates	EN-GJL-200 rubber lined cast iron
Number of plates	1
Shaft	C45 steel
Mechanical seal	Silicon carbide / Silicon carbide
Elastomers	NBR

Engines

Make	Kohler			Kohler		
Model	12LD477-2 (LD25)			12LD477-2 (LD26)		
Type	Diesel direct injection, aspirated			Diesel direct injection, aspirated		
Displacement	954 cm ³ (58 in ³)			954 cm ³ (58 in ³)		
No. cylinders	2			2		
Cooling	Air			Air		
Rpm type	Variable			Variable		
Standard speed	2.500 rpm			2.500 rpm		
EU emissions	N/Em			N/Em		
US emissions	EPA Tier I			EPA Tier I		
Starting	Electric			Electric		
Starting voltage	12 V			12 V		
Oil change interval	400 h			400 h		
Market	UE			UE		
Speed [rpm]	2000	2250	2500	2000	2250	2500
Consumption [l/h]	2	2,6	2,9	2	2,6	2,9
Power [kW]	8	9,5	10,7	8	9,5	10,7
Power [HP]	10.7	12.7	14.3	10.7	12.7	14.3

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Arrangements

Technical data	
Model	Trolley - standard service
Material	S275JR EN 10025-2 carbon steel
Coatings	Bicomponent, average thickness of 80 µm
Color	Yellow and grey Atlas Copco (standard)
Features	Galvanised steel frame: chassis, lifting bar, adjustable handle, support foot. Tractor tires.
Battery	Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A
Tank	10 l (2.6 USG)

VAR 4-159 D TROLLEY - E



Dimensions	780 x 1300 x 1170 mm 31 x 51 x 46 "
H suction port	0,71 m (2.3 ft)
Weight (LD25)	230 kg (510 lb)

VAR 4-159 D BLOCK - E



Dimensions	1000 x 1000 x 650 mm 39 x 39 x 26 "
H suction port	0,47 m (1.5 ft)
Weight (LD26)	265 kg (580 lb)