

# VAR 4-159

Diesel - Qmax 50 l/s - 180 m<sup>3</sup>/h - Hmax 21.5m



## 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

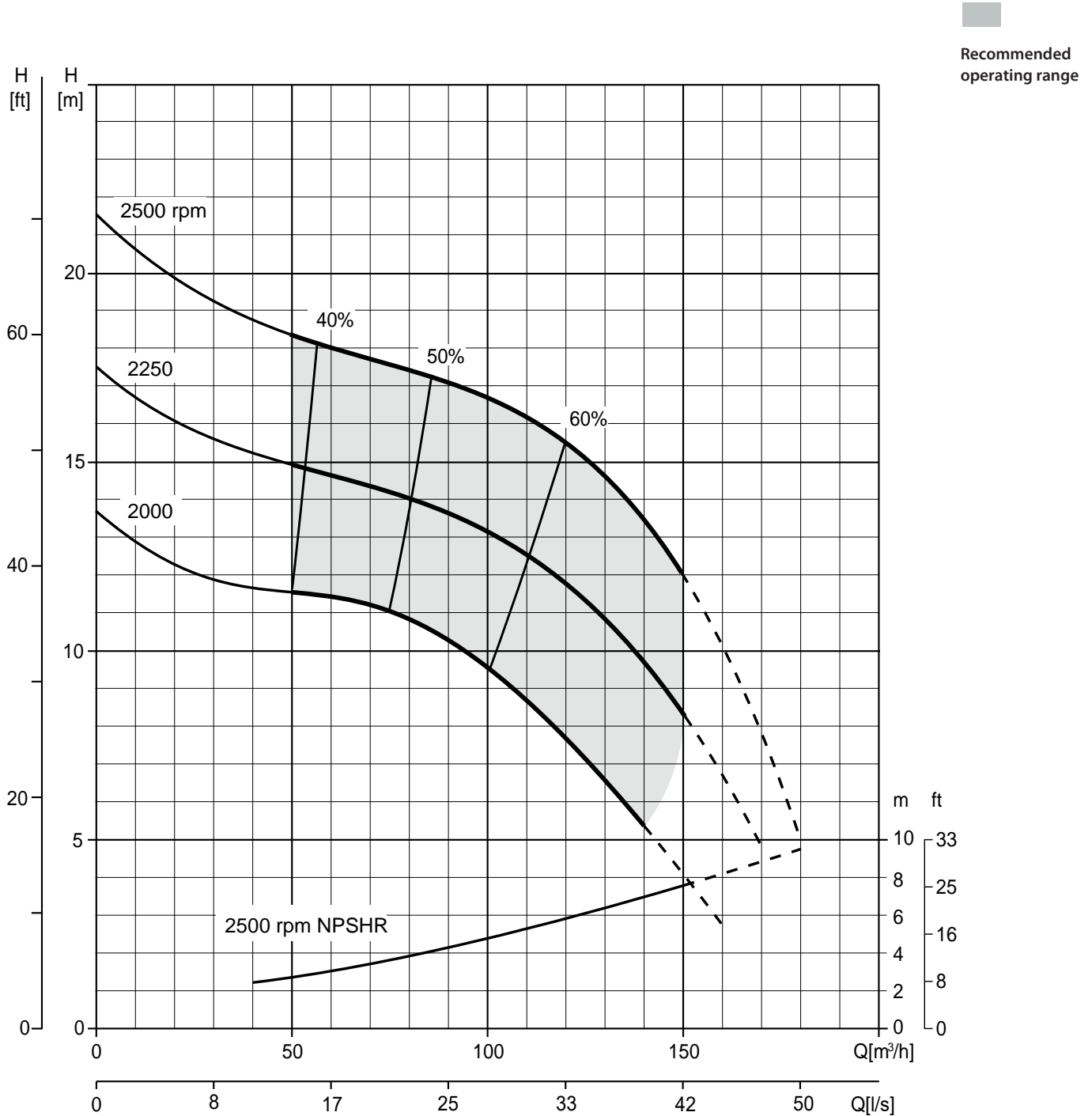
Test according to UNI EN ISO 9906 standard - level 2

Test liquid: clean water, density 1,000 kg/m<sup>3</sup>

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)



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## Technical data

### Pump

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

### Engines

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

H suction port 0,71 m

Weight (LD25) 230 kg

VAR 4-159 D BLOCK - E



Dimensions 1000 x 1000 x 650 mm

H suction port 0,47 m

Weight (LD26) 265 kg