

# VAR 3-140

Diesel - Qmax 80 m<sup>3</sup>/h (350 USgpm) - Hmax 28 m (92 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 28 mm (1.1")

### 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

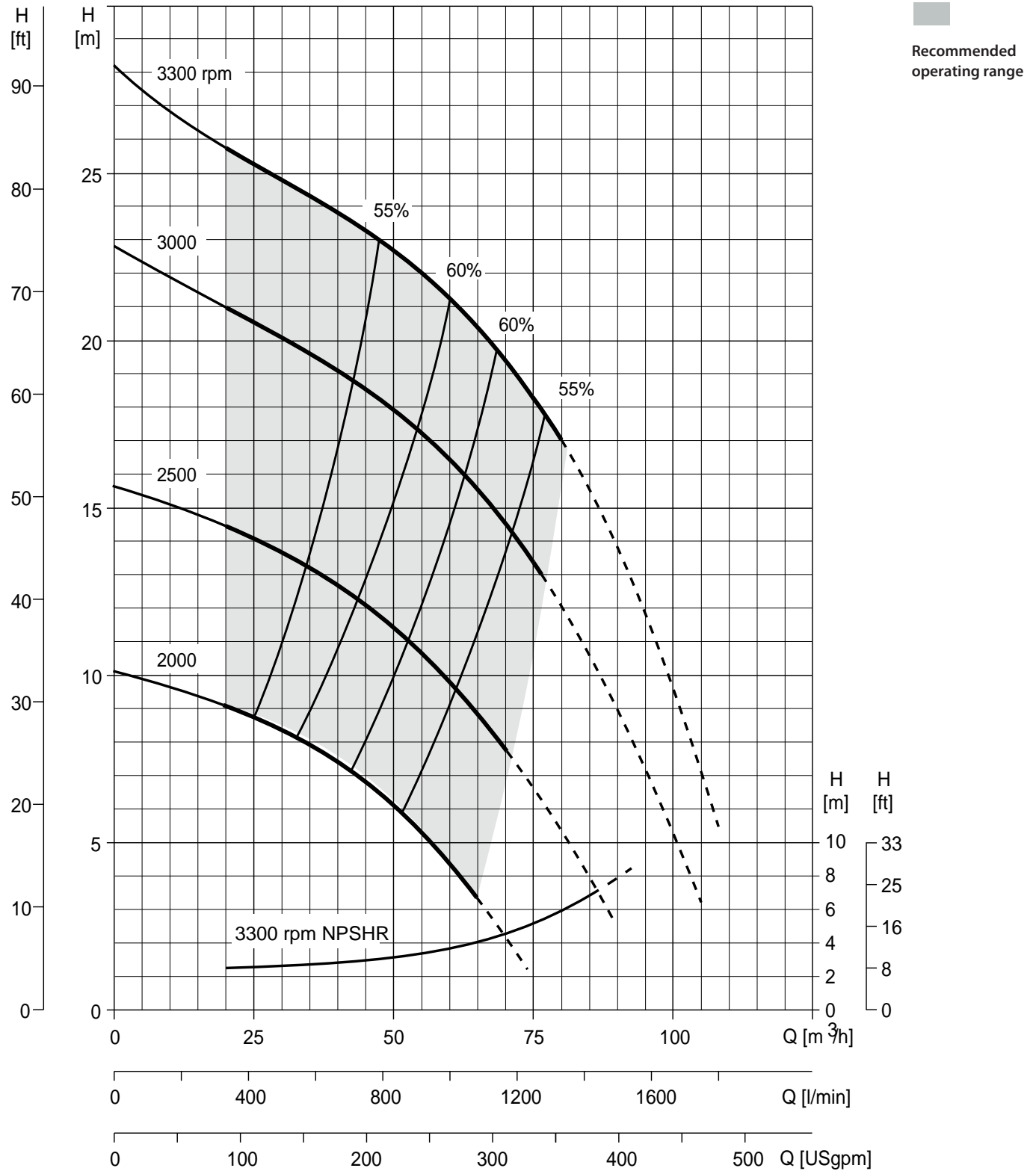
Test according to UNI EN ISO 9906 standard - level 2

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

Spherical solids handling: D.28 mm (1.1")

Priming time: 16 s from 1,5 m (4.9 ft)

Max absorbed power: 6,1 kW - 8.2 HP (3.300 rpm)



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## Technical data

### Pump

<b>Model</b>	VAR 3-140
<b>Qmax</b>	80 m <sup>3</sup> /h - 1.330 l/min (400 USgpm)
<b>Hmax</b>	28 m (92 ft)
<b>Q max eff.</b>	70 m <sup>3</sup> /h - 1.170 l/min (300 USgpm)
<b>Eff. max</b>	61 %
<b>Suction port</b>	Threaded - 3" BSP
<b>Delivery port</b>	Threaded - 3" BSP
<b>Impeller type</b>	Semi-Open, 3 vane
<b>Solids handling</b>	28 mm (1.1 ")
<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			
	15LD440 (KL23)				15LD440 (KL26)			
<b>Model</b>	15LD440 (KL23)				15LD440 (KL26)			
<b>Type</b>	Diesel direct injection, aspirated				Diesel direct injection, aspirated			
<b>Displacement</b>	442 cm <sup>3</sup> (27 in <sup>3</sup> )				442 cm <sup>3</sup> (27 in <sup>3</sup> )			
<b>No. cylinders</b>	1				1			
<b>Cooling</b>	Air				Air			
<b>Rpm type</b>	Variable				Variable			
<b>Standard speed</b>	3.200 rpm				3.200 rpm			
<b>EU emissions</b>	N/Em				N/Em			
<b>US emissions</b>	EPA Tier I				EPA Tier I			
<b>Starting</b>	Recoil				Electric			
<b>Starting voltage</b>					12 V			
<b>Oil change interval</b>	250 h				250 h			
<b>Market</b>	UE				UE			
<b>Speed [rpm]</b>	2000	2500	3000	3200	2000	2500	3000	3200
<b>Consumption [l/h]</b>	1,2	1,5	1,7	1,8	1,2	1,5	1,7	1,8
<b>Power [kW]</b>	4,4	5,5	6,2	6,4	4,4	5,5	6,2	6,4
<b>Power [HP]</b>	5.9	7.4	8.3	8.6	5.9	7.4	8.3	8.6

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## Arrangements

Technical data	
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.
Tank	5 l (1.3 USG)

VAR 3-140 D TROLLEY - R



Dimensions	610 x 765 x 980 mm 24 x 30 x 39 "
H suction port	0,53 m (1.7 ft)
Weight (KL23)	152 kg (340 lb)

VAR 3-140 D TROLLEY - E



Dimensions	610 x 945 x 980 mm 24 x 37 x 39 "
H suction port	0,64 m (2.1 ft)
Weight (KL26)	162 kg (360 lb)