

# VAR 2-180



Diesel - Qmax 50 m<sup>3</sup>/h (220 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 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 15 mm (0.6")

### 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

# VAR 2-180

## Performance curves

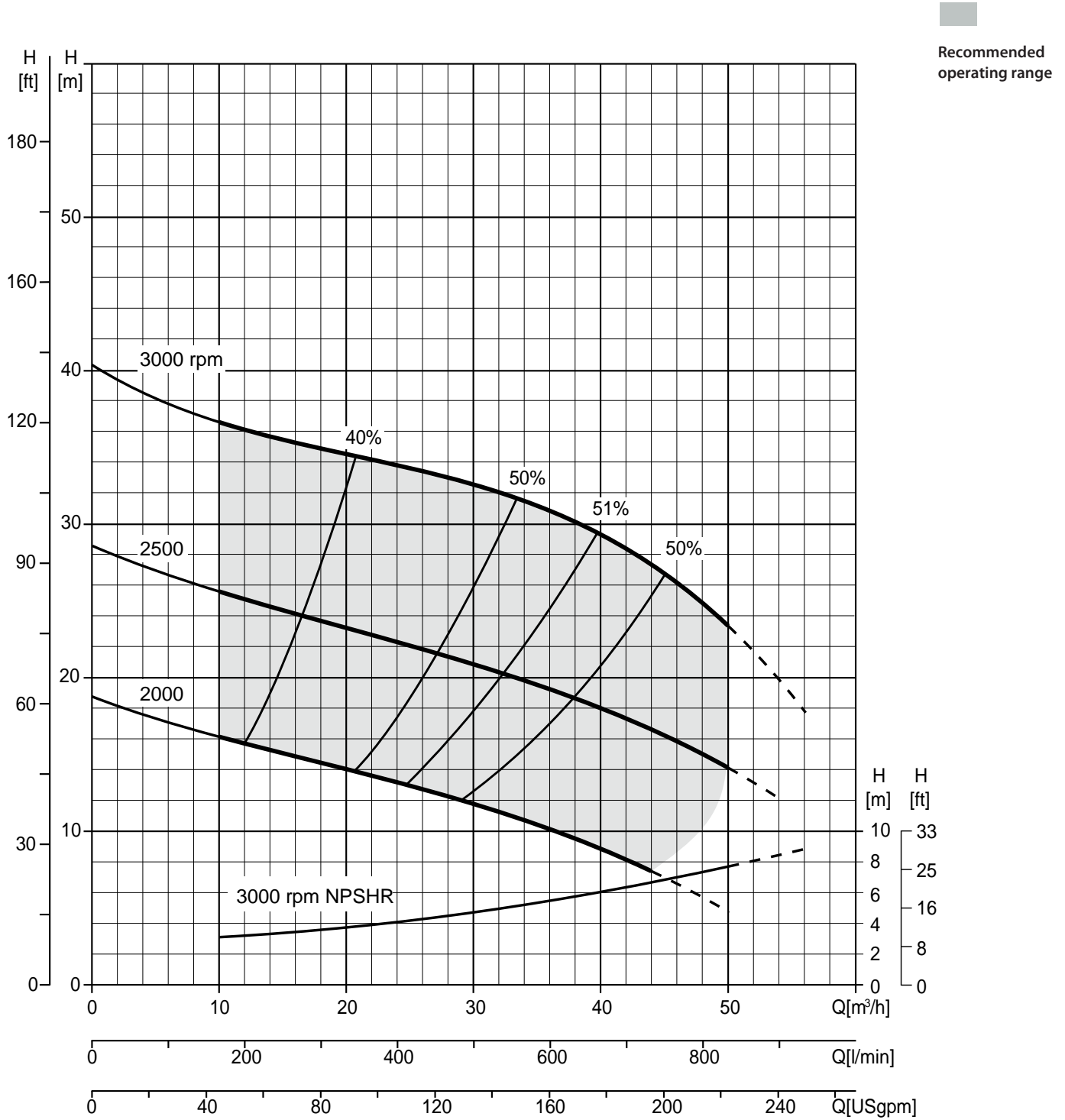
Test according to UNI EN ISO 9906 standard - level 2

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

Spherical solids handling: D.15 mm (0.6")

Priming time: 20 s from 1,5 m (4.9 ft)

Max absorbed power: 6,3 kW - 8.4 HP (3.000 rpm)



# VAR 2-180

## Technical data

### Pump

<b>Model</b>	VAR 2-180
<b>Qmax</b>	50 m <sup>3</sup> /h - 830 l/min (200 USgpm)
<b>Hmax</b>	40 m (131 ft)
<b>Suction port</b>	Threaded - 2" BSP
<b>Delivery port</b>	Threaded - 2" BSP
<b>Impeller type</b>	Semi-Open, 4 vane
<b>Solids handling</b>	15 mm (0.6 ")
<b>Material</b>	G10
<b>Casing</b>	EN-GJL-200 cast iron
<b>Impeller</b>	EN-GJS-500 ductile 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

<b>Make</b>	<b>Kohler</b>			<b>Kohler</b>		
<b>Model</b>	15LD440 (KL22)			15LD440 (KL25)		
<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>	3.000 rpm			3.000 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>	<b>2000</b>	<b>2500</b>	<b>3000</b>	<b>2000</b>	<b>2500</b>	<b>3000</b>
<b>Consumption [l/h]</b>	1,2	1,5	1,7	1,2	1,5	1,7
<b>Power [kW]</b>	4,4	5,5	6,2	4,4	5,5	6,2
<b>Power [HP]</b>	5.9	7.4	8.3	5.9	7.4	8.3

# VAR 2-180

## 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 2-180 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 (KL22)	150 kg (330 lb)

VAR 2-180 D TROLLEY - E



Dimensions	610 x 945 x 980 mm
	24 x 37 x 39 "
H suction port	0,53 m (1.7 ft)
Weight (KL25)	160 kg (350 lb)

AUTORYZOWANY PARTNER:

**TECHBUD**

SILNIKI • MASZYNY BUDOWLANE • DROGOWE • AGREGATY

Techbud Sp. z o.o.  
ul. Gorzowska 12  
65-127 Zielona Góra

tel. +48 68 470 72 50  
fax +48 68 470 72 51  
www.techbud.eu  
techbud@techbud.eu