

VAR 1-180



Diesel - Qmax 29 m³/h (130 USgpm) - Hmax 57 m (187 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 11 mm (0.4")

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 1-180

Performance curves

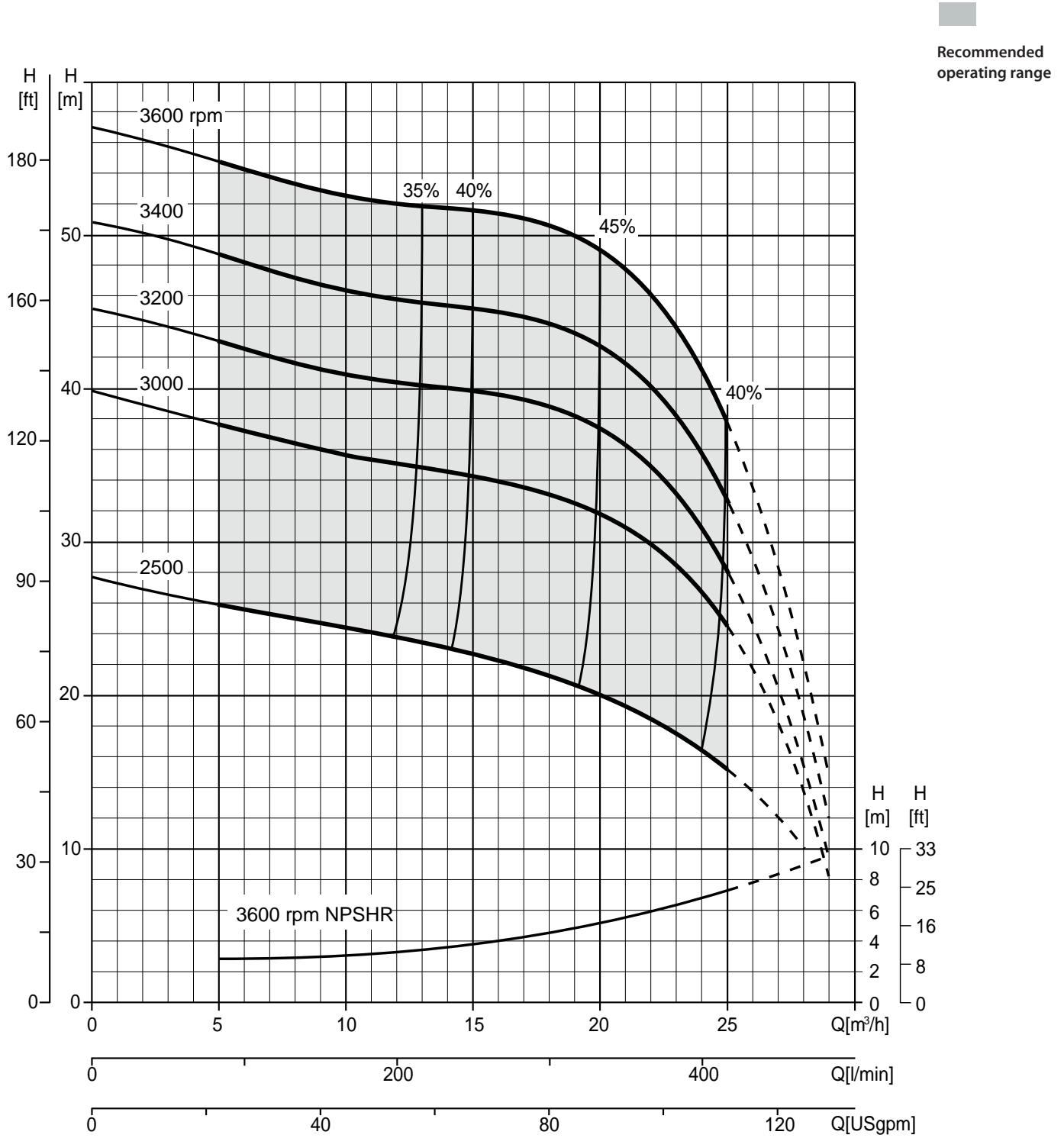
Test according to UNI EN ISO 9906 standard - level 2

Test liquid: clean water, density 1,000 kg/m³

Spherical solids handling: D.11 mm (0.4")

Priming time: 27 s from 1,5 m (4.9 ft)

Max absorbed power: 6,4 kW - 8.6 HP (3.600 rpm)



VAR 1-180

Technical data

Pump

| | |
|-------------------------|----------------------------------------------|
| Model | VAR 1-180 |
| Qmax | 29 m ³ /h - 480 l/min (100 USgpm) |
| Hmax | 57 m (187 ft) |
| Q max eff. | 20 m ³ /h - 330 l/min (100 USgpm) |
| Eff. max | 45 % |
| Suction port | threaded - 1 1/2" BSP |
| Delivery port | threaded - 1 1/2" BSP |
| Impeller type | Semi-Open, 4 vane |
| Solids handling | 11 mm (0.4 ") |
| Material | G10 |
| Casing | EN-GJL-200 cast iron |
| Impeller | EN-GJS-500 ductile 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 | 15LD440 (LD10) | | | | | 15LD440 (LD11) | | | | |
| Type | Diesel direct injection, aspirated | | | | | Diesel direct injection, aspirated | | | | |
| Displacement | 442 cm ³ (27 in ³) | | | | | 442 cm ³ (27 in ³) | | | | |
| No. cylinders | 1 | | | | | 1 | | | | |
| Cooling | Air | | | | | Air | | | | |
| Rpm type | Variable | | | | | Variable | | | | |
| Standard speed | 3.600 rpm | | | | | 3.600 rpm | | | | |
| EU emissions | N/Em | | | | | N/Em | | | | |
| US emissions | EPA Tier I | | | | | EPA Tier I | | | | |
| Starting | Recoil | | | | | Electric | | | | |
| Starting voltage | | | | | | 12 V | | | | |
| Oil change interval | 250 h | | | | | 250 h | | | | |
| Market | UE | | | | | UE | | | | |
| Speed [rpm] | 2500 | 3000 | 3200 | 3400 | 3600 | 2500 | 3000 | 3200 | 3400 | 3600 |
| Consumption [l/h] | 1,5 | 1,7 | 1,8 | 1,9 | 2 | 1,5 | 1,7 | 1,8 | 1,9 | 2 |
| Power [kW] | 5,5 | 6,2 | 6,4 | 6,6 | 6,7 | 5,5 | 6,2 | 6,4 | 6,6 | 6,7 |
| Power [HP] | 7.4 | 8.3 | 8.6 | 8.9 | 9 | 7.4 | 8.3 | 8.6 | 8.9 | 9 |

VAR 1-180

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 | 7 l (1.8 USG) |

VAR 1-180 B TROLLEY - R



| | |
|----------------|--------------------------------------|
| Dimensions | 610 x 765 x 980 mm 24 x 30 x 39 " |
| H suction port | 0,48 m (1.6 ft) |
| Weight (LD10) | 120 kg (260 lb) |

VAR 1-180 D TROLLEY - E



| | |
|----------------|--------------------------------------|
| Dimensions | 610 x 945 x 980 mm 24 x 37 x 39 " |
| H suction port | 0,55 m (1.8 ft) |
| Weight (LD11) | 130 kg (290 lb) |

AUTORYZOWANY PARTNER:

TECHBUD

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