

PAS 100MF 250 FKL39

Diesel - Qmax 78 l/s - Hmax 36 m



Indicative picture of the product

PAS MF - Vacuum prime centrifugal pumps

The pump system consists of a centrifugal pump and a vacuum pump - making automatic priming possible. The machine quickly removes the air from the suction pipe and begins to pump, even at suction heights of several metres. The PAS MF series is also appropriate for pumping liquids with suspended solids because of the semi-open impeller.

Applications

Both Atlas Copco and Varisco have decades of experience in designing and producing pumps. We have put those years of expertise into providing solutions that work across multiple applications. The PAS MF (medium flow) 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

Pump

High efficiency: 70% (B.E.P)

Rapid "dry" priming

Up to a height of 7,5 m (24.6 ft)

High resistance

To abrasive liquids and turbid sandy waters

Semi-open impeller

Solids handling up to 50 mm (2")

Diaphragm vacuum pump

Oil free suitable for dry running: no contamination of the environment

Wear plate

Cast iron (G11 rubber lined) or stainless steel wear plates, that are easily replaceable

Mechanical shaft seal in oil bath

It allows the "dry running" operation of the pump

Easy maintenance

Hinged cover for direct access to the impeller (without lifting devices). Link belt quick to replace on the field.

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Performance curves

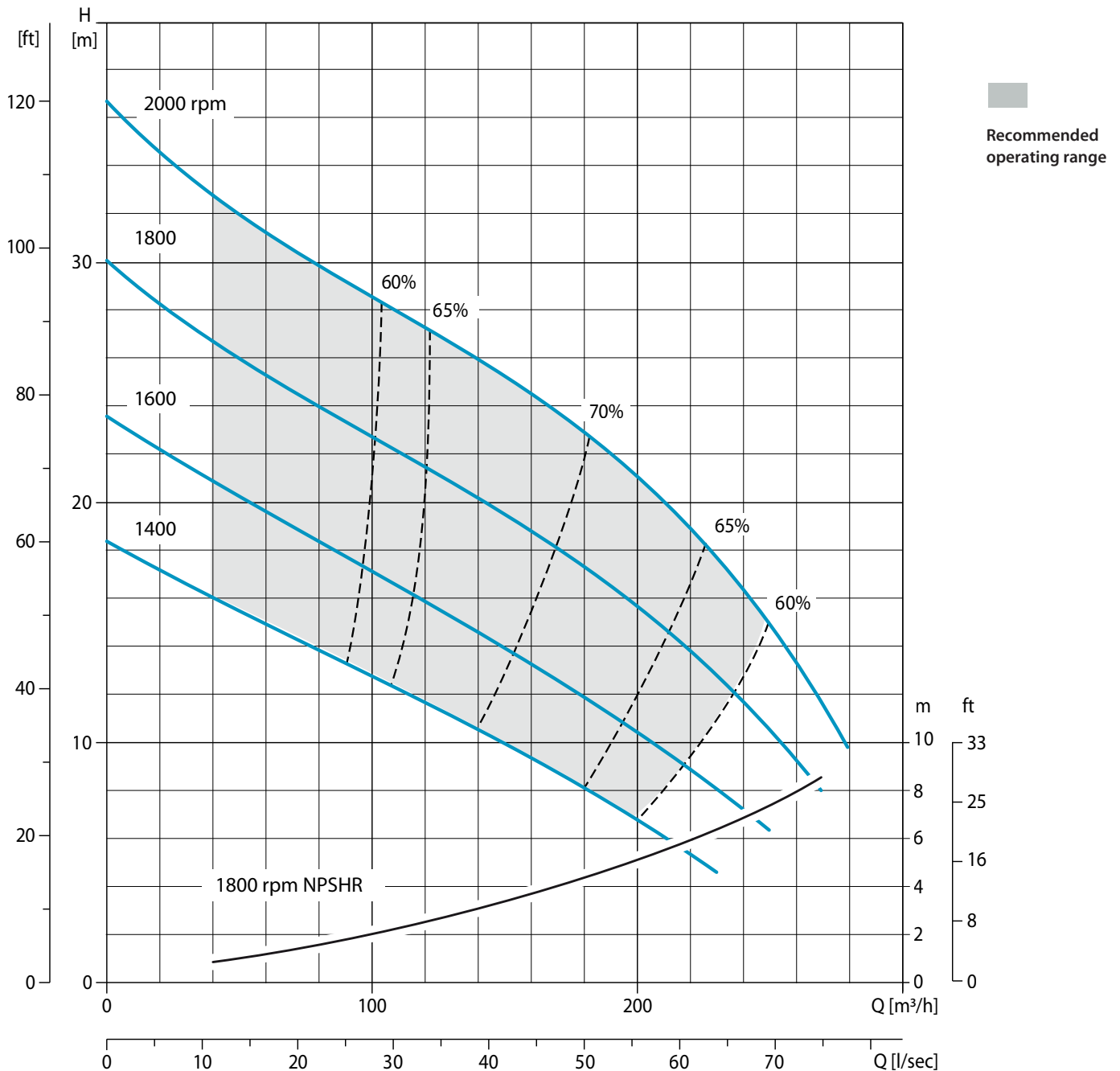
Test according to UNI EN ISO 9906 standard - level 2

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

Losses from priming system and check valve not included

Spherical solids handling: D.50 mm (2")

Max absorbed power: 17,0 kW - 22.8 HP (2.000 rpm)



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Technical data

Pump

| Model | PAS 100MF | |
|------------------|--|-------------------------------------|
| Qmax | 78 l/s - 280 m ³ /h - 4.670 l/min (1,200 USgpm) | |
| Hmax | 36 m (118 ft) | |
| Q max eff. | 50 l/s - 180 m ³ /h - 3.000 l/min (800 USgpm) | |
| Eff. max | 70 % | |
| Suction port | Flanged - 100 TABLE E (AS 2129) | |
| Delivery port | Flanged - 100 TABLE E (AS 2129) | |
| Impeller type | Semi-Open, 2 vane | |
| Solids handling | 50 mm (2.0 ") | |
| Material | G11 | F11 |
| Casing | EN-GJL-200 cast iron | EN-GJL-200 cast iron |
| Impeller | EN-GJS-400 ductile iron | CF8M stainless steel |
| Wear plates | EN-GJL-200 rubber lined cast iron | CF8M stainless steel |
| Number of plates | 2 | 2 |
| Shaft | 39NiCrMo3 steel | SAF 2205 stainless steel |
| Flushing | Yes | Yes |
| Mechanical seal | Tungsten carbide / Tungsten carbide | Tungsten carbide / Tungsten carbide |
| Elastomers | VITON | VITON |

Priming system

| Vacuum pump | V20 |
|----------------------|---------------------------------|
| Vacuum pump type | Diaphragm |
| Nominal air capacity | 50 m ³ /h (29.4 cfm) |
| Max vacuum | 0,9 bar |
| Separator type | Valmatic |
| Separator material | EN-GJL-200 cast iron |
| Drives | Link belt |

Engine

| Make | Kohler | | | |
|-------------------|--|------|------|------|
| Model | KDI 1903M (KL39) | | | |
| Type | Diesel direct injection, aspirated | | | |
| Displacement | 1.861 cm ³ (114 in ³) | | | |
| No. cylinders | 3 | | | |
| Cooling | Liquid with radiator | | | |
| Rpm type | Variable | | | |
| Standard speed | 2.000 rpm | | | |
| US emissions | EPA Tier 3 | | | |
| Starting | Electric | | | |
| Starting voltage | 12 V | | | |
| Speed [rpm] | 1400 | 1600 | 1800 | 2000 |
| Consumption [l/h] | 4,4 | 5,1 | 5,4 | 5,8 |
| Power [kW] | 17,6 | 20,3 | 21,6 | 23 |
| Power [HP] | 23.6 | 27.2 | 29 | 30.8 |

Control panel

| Model | PW250 (PW1) |
|-------|--|
| | Manual operation |
| | Automatic operation: start-stop with floats |
| | Digital display with 6 languages (IT,EN, FR, DE, ES, PT) with: |
| | Hour meter, Rev counter, |
| | Battery voltmeter, Fuel level (%) |
| | Automatic engine shutdown in case of: |
| | - low oil pressure |
| | - water overheating |
| | - low battery voltage |
| | (engine failure alarms with LED lights and display message) |
| | Emergency stop button |
| | Throttle rod |
| | (PW1 FleetLink control as option) |

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Arrangements

Technical data

| | |
|----------|--|
| Material | S235JR EN 10025-2 carbon steel |
| Coatings | Polyester powder, average thickness of 80 µm |
| Color | Yellow and grey Atlas Copco (standard) |
| Battery | Acid charge Pb-Ca maintenance free 12 V - 100 Ah - 400 A |
| Tank | 320 l (84.5 USG) |

PAS 100MF 250 CNP



| | |
|-------------------|-----------------------|
| Dimensions | 1100 x 2280 x 1560 mm |
| Dry weight (KL38) | 1260 kg |
| Noise level | 63-68 dB(A) @10 m |

PAS 100MF 250 SKID



| | |
|-------------------|-----------------------|
| Dimensions | 1070 x 2220 x 1670 mm |
| Dry weight (KL38) | 990kg |
| Noise level | 75-80 dB(A) @10 m |

Specification is subject to change without prior notice. Please check with your local Atlas Copco representative for the latest specifications.

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