

# R 150DP

**Diesel - Qmax 480 m<sup>3</sup>/h (2,100 USgpm) - Hmax 30 m (98 ft)**



Indicative picture of the product

## Automatic dry prime pumps

The pump system consists of a centrifugal pump and a air separator, which enables air to be separated from the liquid and be sucked by a vacuum pump - making automatic priming possible. Even with suction heights of several meters the machine rapidly evacuates the air from the suction pipe and starts to pump. Additionally, thanks to the semi-open impeller, the pump 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 pump 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: 77% (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 76 mm (3")

### Rotary vane vacuum pump

Lubricated with oil recovery system and coalescing filters: no contamination of the environment

### Easy maintenance

Link belt quick to replace on the field.

### Mechanical shaft seal in oil bath

It allows the "dry running" operation of the pump

### Wear plates

Cast iron rubber lined that are easily replaceable

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## Performance curves

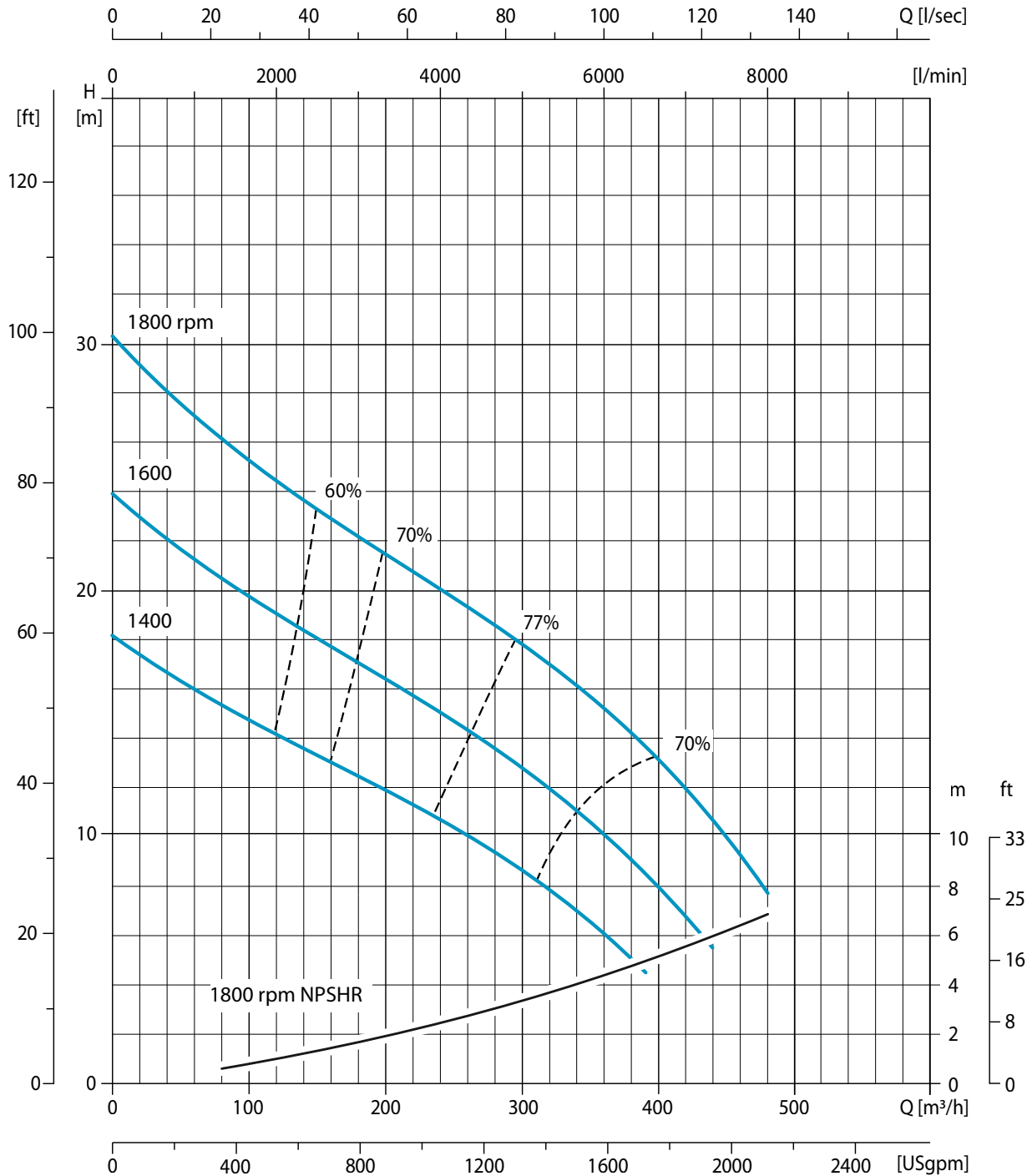
Test according to UNI EN ISO 9906 standard - level 2

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

Losses from priming system and check valve not included

Spherical solids handling: D.76 mm (3")

Max absorbed power: 19,5 kW - 26.1 HP (1.800 rpm)



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## Technical data

### Pump

<b>Model</b>	<b>R 150DP</b>
<b>Q<sub>max</sub></b>	480 m <sup>3</sup> /h - 8.000 l/min (2,100 USgpm)
<b>H<sub>max</sub></b>	30 m (98 ft)
<b>Q max eff.</b>	295 m <sup>3</sup> /h - 4.920 l/min (1,300 USgpm)
<b>Eff. max</b>	77 %
<b>Suction port</b>	Flanged - DIN 150
<b>Delivery port</b>	Flanged - DIN 150
<b>Impeller type</b>	Semi-Open, 2 vane
<b>Solids handling</b>	76 mm (3.0 ")
<b>Material</b>	<b>G11</b>
<b>Casing</b>	EN-GJL-200 cast iron
<b>Impeller</b>	EN-GJS-400 ductile iron
<b>Wear plates</b>	EN-GJL-200 rubber lined cast iron
<b>Number of plates</b>	2
<b>Shaft</b>	39NiCrMo3 steel
<b>Flushing</b>	Yes
<b>Mechanical seal</b>	Tungsten carbide / Tungsten carbide
<b>Elastomers</b>	VITON

### Priming system

<b>Vacuum pump</b>	<b>V04</b>
<b>Vacuum pump type</b>	Rotary vane
<b>Nominal air capacity</b>	50 m <sup>3</sup> /h (29.4 cfm)
<b>Max vacuum</b>	0,9 bar
<b>Separator material</b>	EN-GJL-200 cast iron
<b>Drives</b>	Link belt

### Engine

<b>Make</b>	<b>Kirloskar</b>		
<b>Model</b>	<b>HA394</b>		
<b>Type</b>	Diesel direct injection, naturally aspirated		
<b>Displacement</b>	2.826 cm <sup>3</sup> (172 in <sup>3</sup> )		
<b>No. cylinders</b>	3		
<b>Cooling</b>	Air		
<b>Rpm type</b>	Variable		
<b>Standard speed</b>	1.800 rpm		
<b>US emissions</b>	EPA Tier 2		
<b>Starting</b>	Electric		
<b>Starting voltage</b>	12 V		
<b>Speed [rpm]</b>	<b>1400</b>	<b>1600</b>	<b>1800</b>
<b>Consumption [l/h]</b>	4,4	5,1	5,4
<b>Power [kW] *</b>	17,6	20,3	21,6
<b>Power [HP]</b>	23.6	27.2	29

\* continuous power ISO 3046 ICXN

### Control panel

<b>Model</b>	<b>Basic</b>
	Manual operation
	Hour meter
	Amp meter
	Oil pressure gauge
	Throttle rod

# R 150DP

## Arrangement

### Technical data

Material	S275JR 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 - 110 Ah - 400 A
Tank	150 l (39,6 USG)
Locking keys	Fuel cap

### R 150DP



Dimensions	1410 x 2350 x 1880 mm
	56 x 93 x 74 "
H suction port	0,95 m (3.1 ft)
Dry weight	1040 kg (2,290 lb)

(Site mobility trailer as standard)