

## 8104.181 Major N 3~

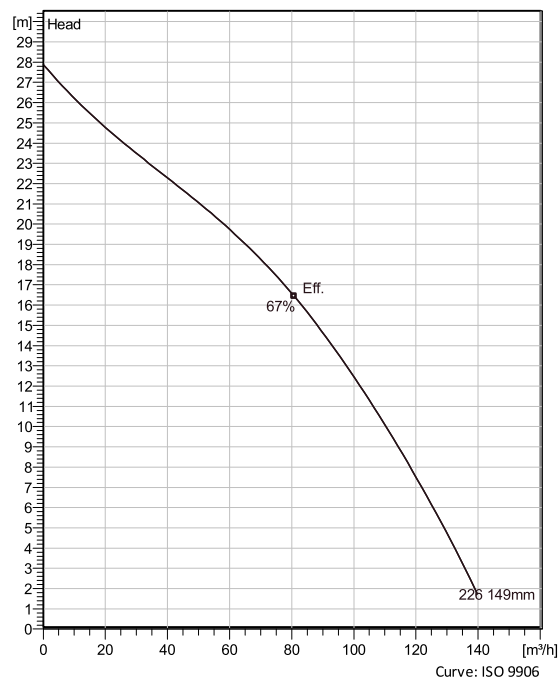
Grindex drainage pumps are designed for professional use in tough applications like mines, construction sites, tunnel sites and other demanding industries. They are designed for pumping water that may contain solids

– up to the size of the strainer holes. Grindex drainage pumps are designed for continuous, unattended operation. They have proven their reliability and dependable performance in demanding areas like building and construction, mining, tunnelling, quarries, industries and rental applications.

### Technical specification



Curves according to: Water [100%], 4 °C, 999.9 kg/m<sup>3</sup>, 1.569 mm<sup>2</sup>/s



### Configuration

**Motor number**  
B8104.181 15-14-2BB-W  
5.6KW

**Impeller diameter**  
149 mm

**Installation type**  
S - Portable Semi  
permanent, Wet

**Discharge diameter**  
100 mm

### Pump information

**Impeller diameter**  
149 mm

**Discharge diameter**  
100 mm

**Inlet diameter**  
90 mm

**Maximum operating speed**  
2880 rpm

**Number of blades**  
2

### Materials

**Impeller**  
Hard-Iron

**Stator housing material**  
Aluminium

Project

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### Technical specification



#### Motor - General

<b>Motor number</b> B8104.181 15-14-2BB-W 5.6KW	<b>Phases</b> 3~	<b>Rated speed</b> 2880 rpm	<b>Rated power</b> 5.6 kW
<b>ATEX approved</b> No	<b>Number of poles</b> 2	<b>Rated current</b> 19 A	<b>Stator variant</b> 5
<b>Frequency</b> 50 Hz	<b>Rated voltage</b> 220 V	<b>Insulation class</b> H	<b>Type of Duty</b> S1

#### Motor - Technical

<b>Power factor - 1/1 Load</b> 0.93	<b>Motor efficiency - 1/1 Load</b> 84.0 %	<b>Total moment of inertia</b> 0.0131 kg m <sup>2</sup>	<b>Starts per hour max.</b> 30
<b>Power factor - 3/4 Load</b> 0.89	<b>Motor efficiency - 3/4 Load</b> 85.9 %	<b>Starting current, direct starting</b> 123 A	
<b>Power factor - 1/2 Load</b> 0.81	<b>Motor efficiency - 1/2 Load</b> 86.1 %	<b>Starting current, star-delta</b> 41 A	

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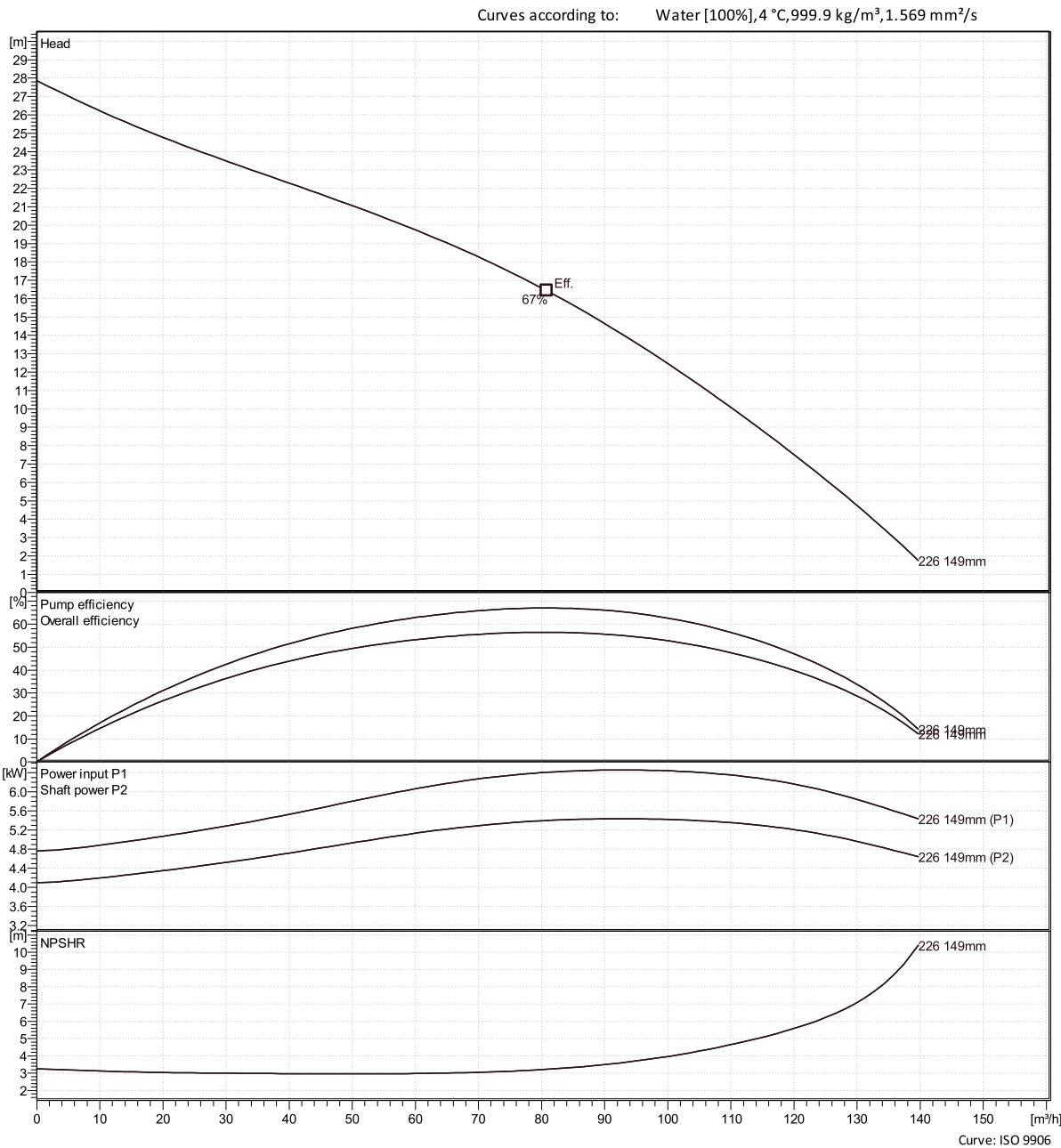
Performance curve



Duty point

Flow

Head



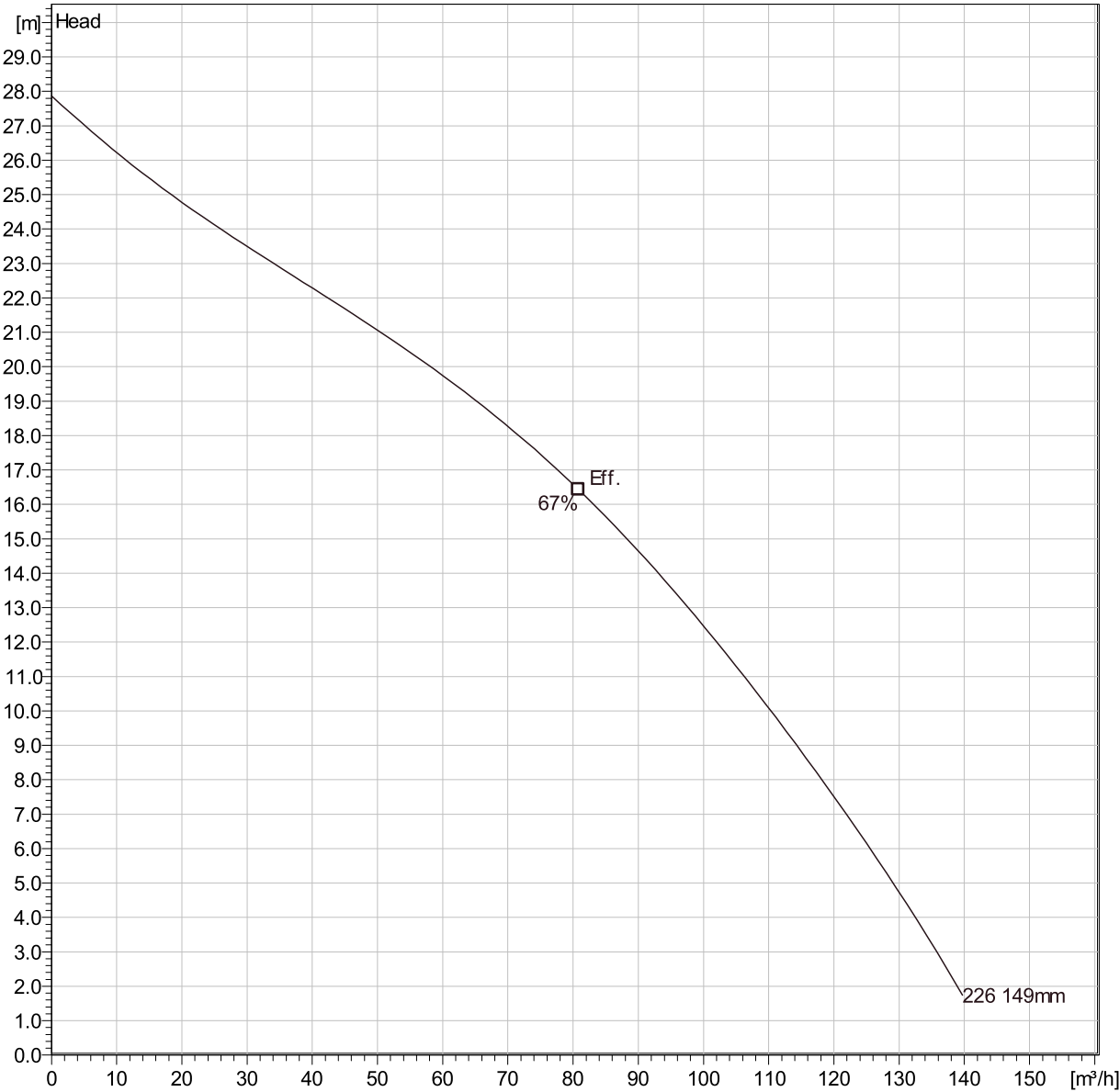
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Duty Analysis



Curves according to: Water [100%], 4 °C, 999.9 kg/m³, 1.569 mm²/s



Curve: ISO 9906

Operating characteristics

Pumps/Syste ms	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHr
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