

## 8111.281 Sandy H 3~

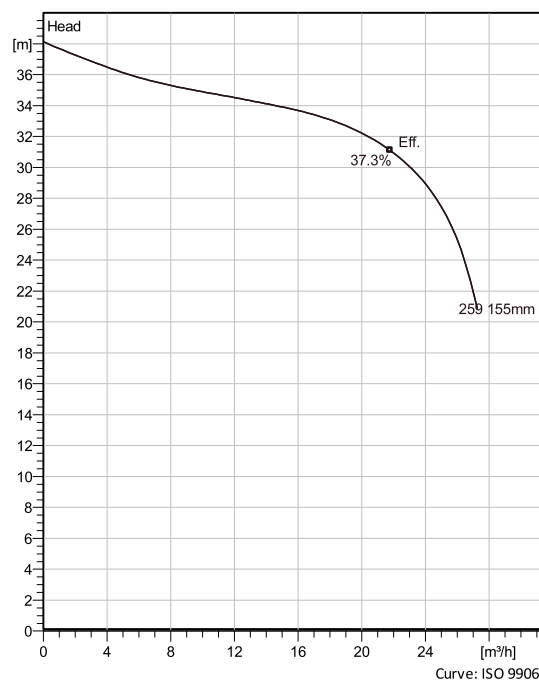
Grindex sludge pumps are designed for professional use in tough applications like mines, construction sites, tunnel sites and other demanding industries. They are designed for pumping water with high content of solids, up to the size of 80 mm. The pumps are designed for continuous, unattended operation. They have proven their reliability and dependable performance in demanding areas like building and construction, mining, tunnelling, quarries, industries, car washes 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

<b>Motor number</b> D8111.281 15-14-2BB-W 5.6KW	<b>Installation type</b> S - Portable Semi permanent, Wet
<b>Impeller diameter</b> 155 mm	<b>Discharge diameter</b> 80 mm

### Pump information

<b>Impeller diameter</b> 155 mm
<b>Discharge diameter</b> 80 mm
<b>Inlet diameter</b> 80 mm
<b>Maximum operating speed</b> 2880 rpm
<b>Number of blades</b> 12

### Materials

<b>Impeller</b> Hard-Iron
<b>Stator housing material</b> Aluminium

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### Technical specification



#### Motor - General

<b>Motor number</b> D8111.281 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> 0.0085 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> 85.5 %	<b>Starting current, direct starting</b> 123 A	
<b>Power factor - 1/2 Load</b> 0.81	<b>Motor efficiency - 1/2 Load</b> 86.0 %	<b>Starting current, star-delta</b> 41 A	

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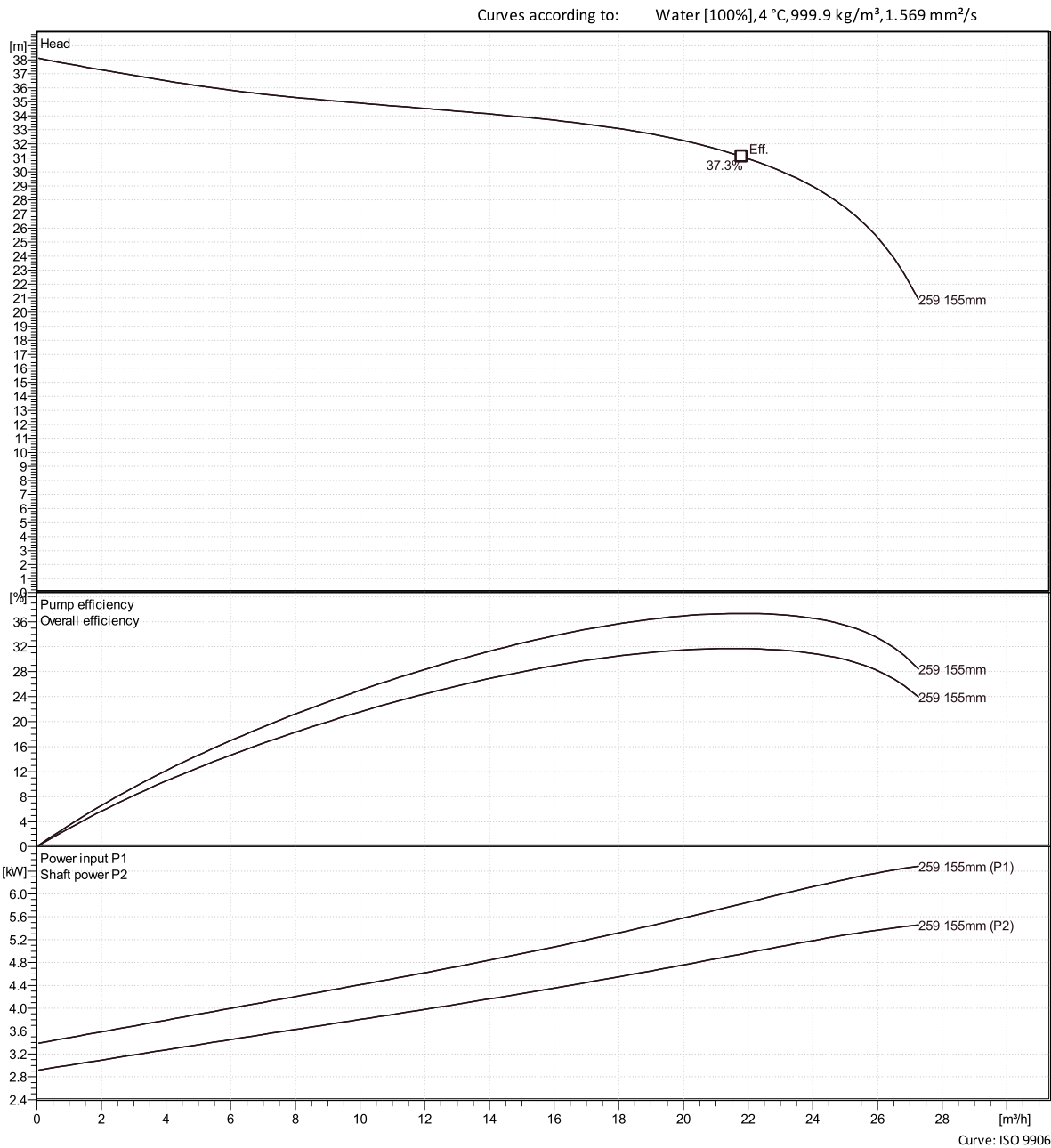
Performance curve



Duty point

Flow

Head



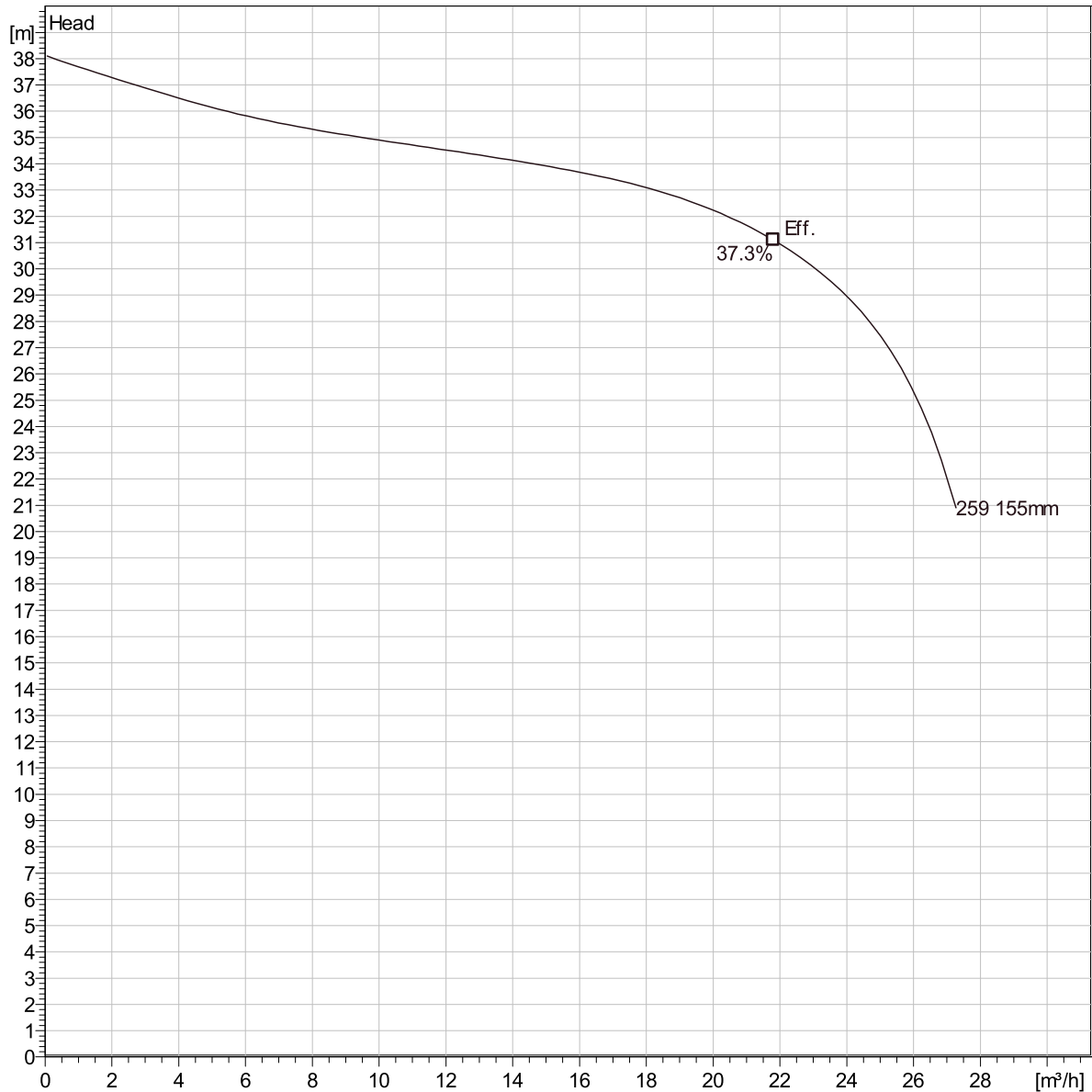
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Duty Analysis



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



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