

## BS 2660 HT 3~ 251

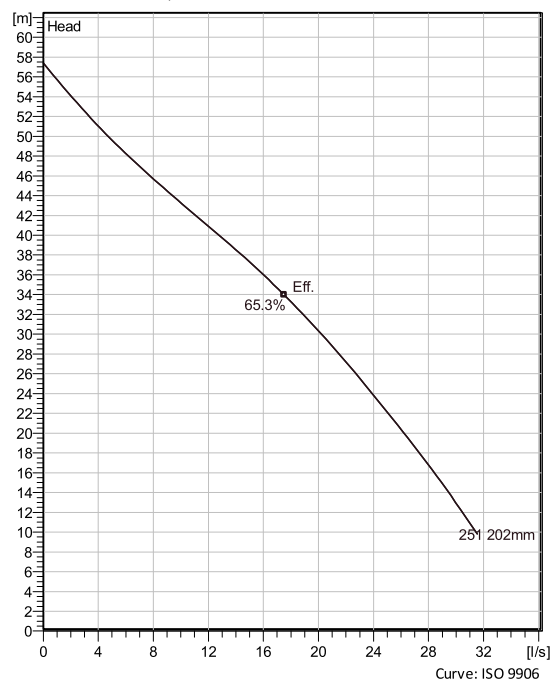
Portable pumps ideal for applications in which the water or liquid contains concentrations of abrasives.



### Technical specification



Curves according to: Water, pure ,4 °C,999.9 kg/m<sup>3</sup>,1.5692 mm<sup>2</sup>/s



### Configuration

<b>Motor number</b> B2660.181 18-15-2BB-W 10KW	<b>Installation type</b> S - Portable Semi permanent, Wet
<b>Impeller diameter</b> 202 mm	<b>Discharge diameter</b> 100 m

### Pump information

<b>Impeller diameter</b> 202 mm
<b>Discharge diameter</b> 100 m
<b>Inlet diameter</b> 82 mm
<b>Maximum operating speed</b> 2865 rpm
<b>Number of blades</b> 2

**Max. fluid temperature**  
40 °C

### Materials

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

**Project**  
**Block**

**Created by** Joshua Harvey  
**Created on** 2/11/2021 **Last update** 2/11/2021

## BS 2660 HT 3~ 251

### Technical specification



#### Motor - General

<b>Motor number</b> B2660.181 18-15-2BB-W 10KW	<b>Phases</b> 3~	<b>Rated speed</b> 2865 rpm	<b>Rated power</b> 10 kW
<b>ATEX approved</b> No	<b>Number of poles</b> 2	<b>Rated current</b> 19 A	<b>Stator variant</b> 16
<b>Frequency</b> 50 Hz	<b>Rated voltage</b> 400 V	<b>Insulation class</b> H	<b>Type of Duty</b> S1
<b>Version code</b> 181			

#### Motor - Technical

<b>Power factor - 1/1 Load</b> 0.88	<b>Motor efficiency - 1/1 Load</b> 85.7 %	<b>Total moment of inertia</b> 0.0263 kg m <sup>2</sup>	<b>Starts per hour max.</b> 30
<b>Power factor - 3/4 Load</b> 0.84	<b>Motor efficiency - 3/4 Load</b> 87.6 %	<b>Starting current, direct starting</b> 115 A	
<b>Power factor - 1/2 Load</b> 0.74	<b>Motor efficiency - 1/2 Load</b> 88.1 %	<b>Starting current, star-delta</b> 38.3 A	

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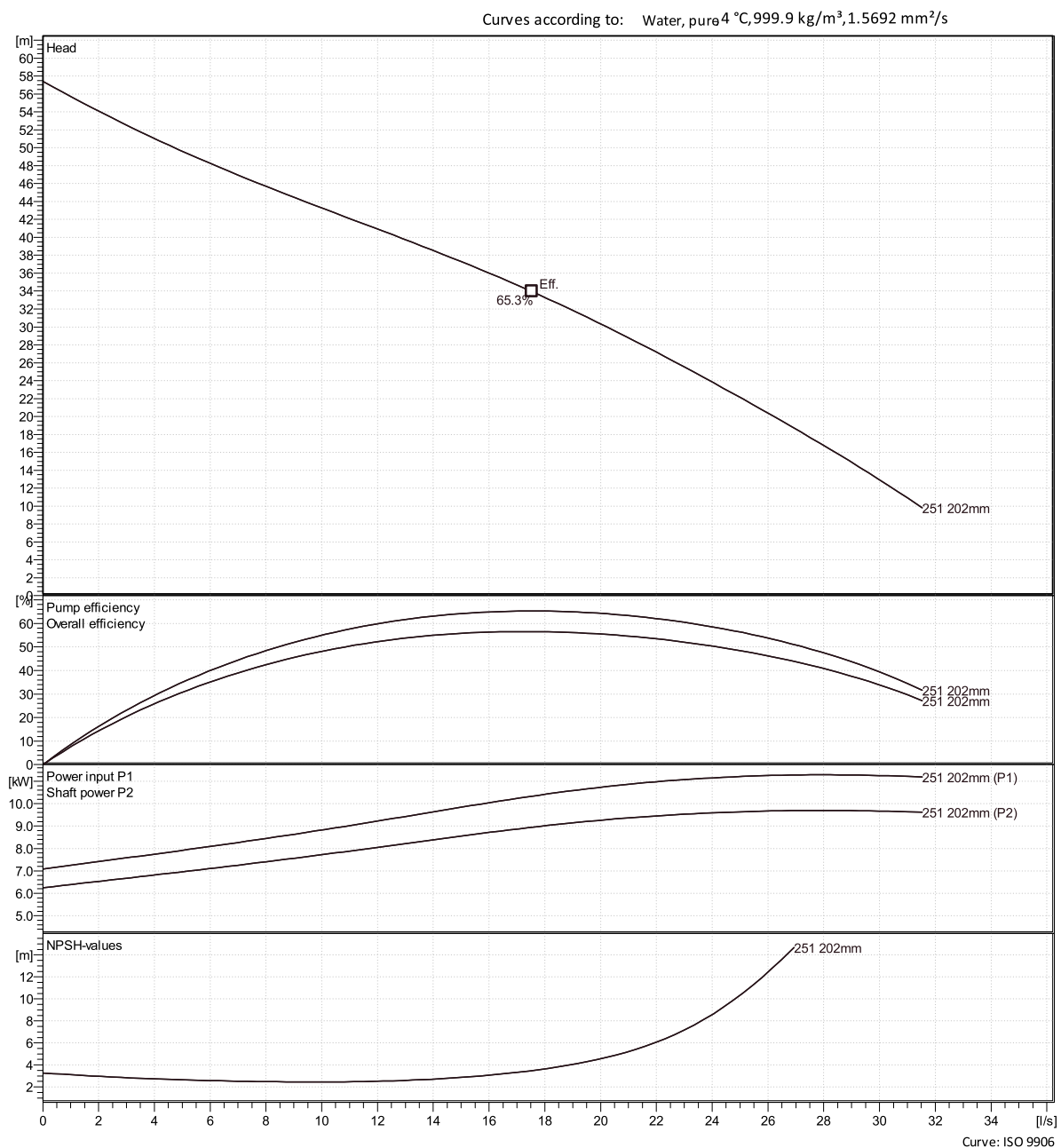
## Performance curve



### Duty point

Flow

Head



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2/11/2021

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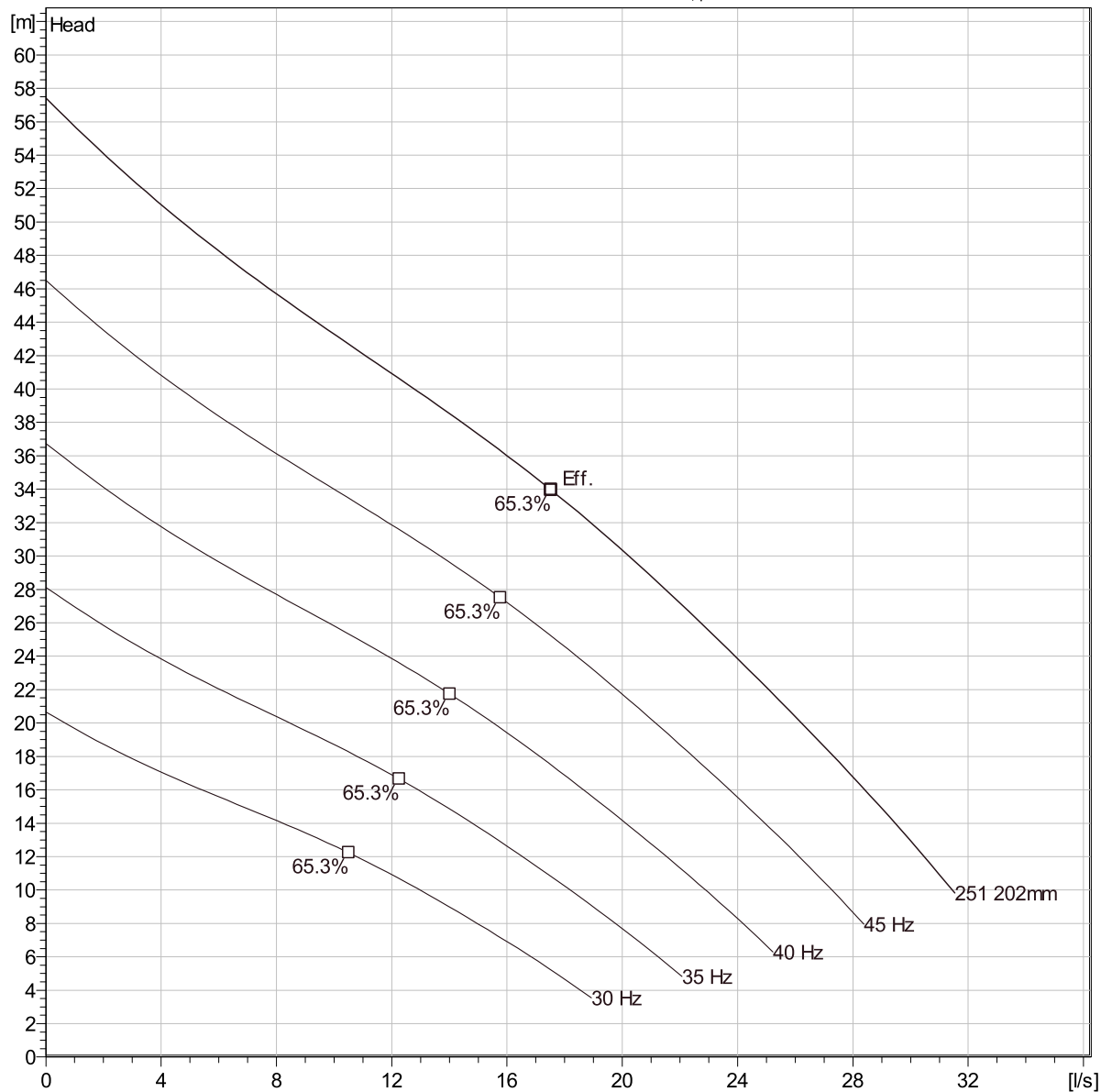
2/11/2021

## BS 2660 HT 3~ 251

### Duty Analysis



Curves according to: Water, pure, 4 °C, 999.9 kg/m<sup>3</sup>, 1.5692 mm<sup>2</sup>/s



### Operating characteristics

Pumps / Systems	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHre
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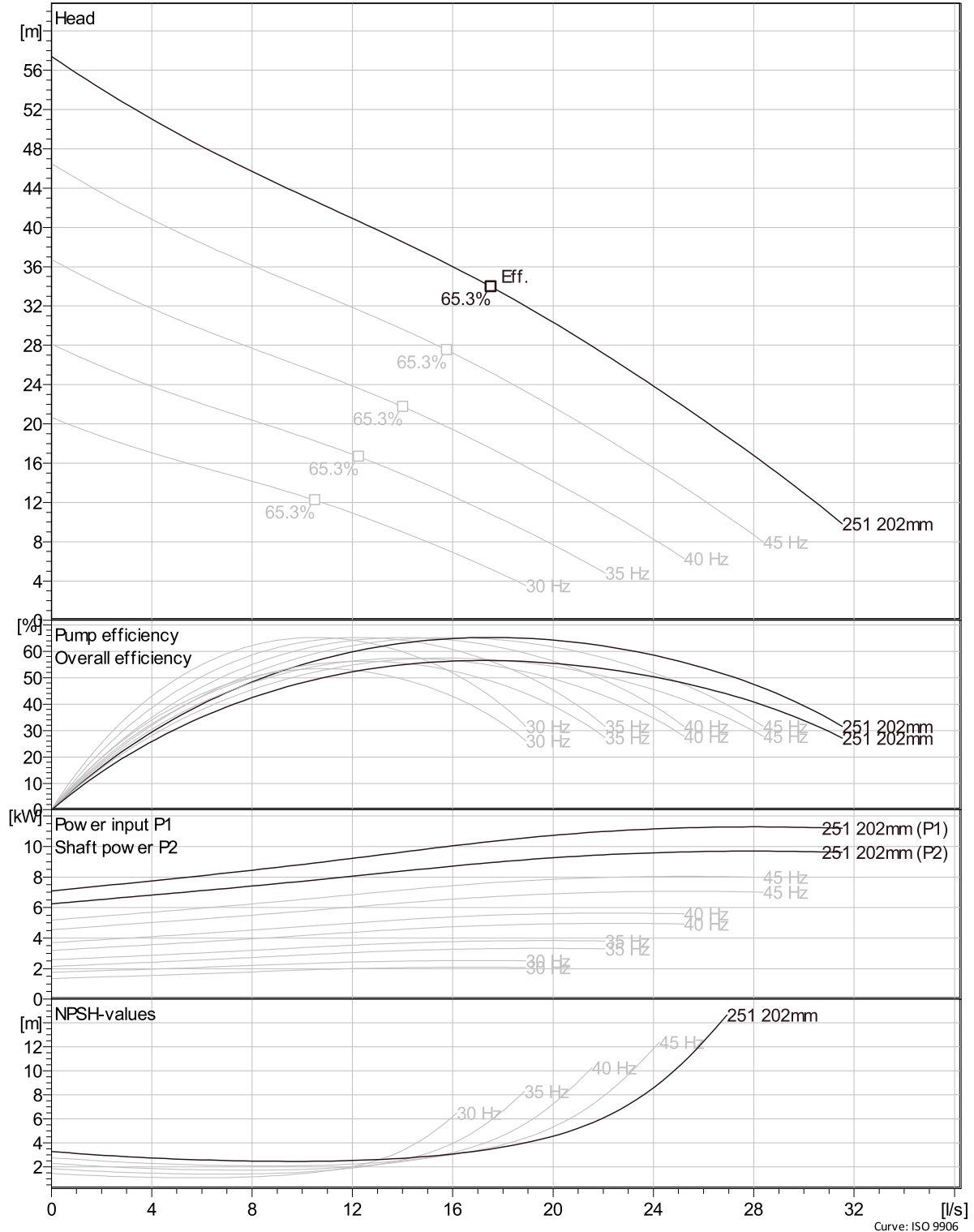
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## VFD Curve



Curves according to: Water, pure, 4 °C, 999.9 kg/m³, 1.5692 mm²/s



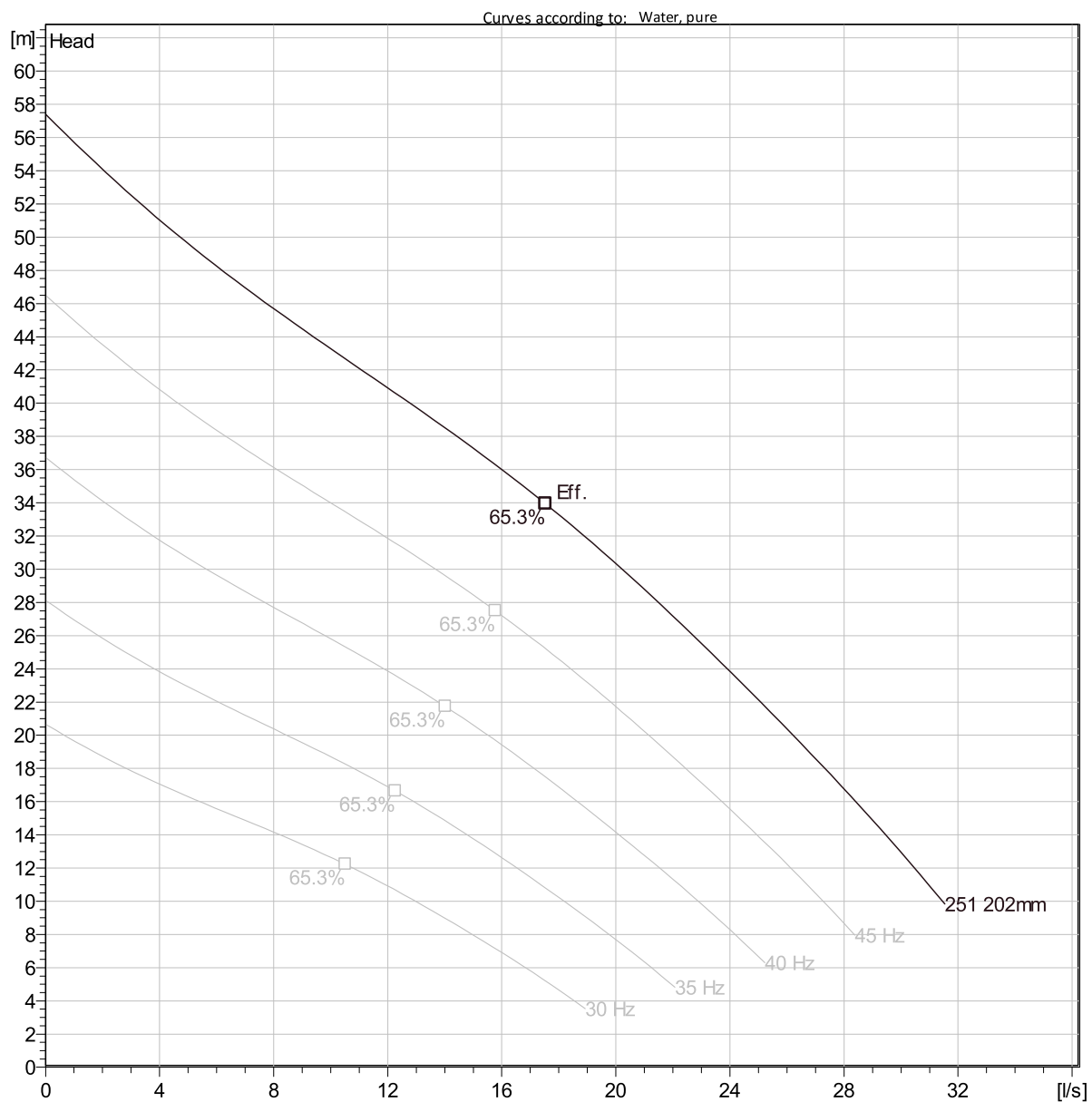
Curve: ISO 9906

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## BS 2660 HT 3~ 251

### VFD Analysis



### Operating characteristics

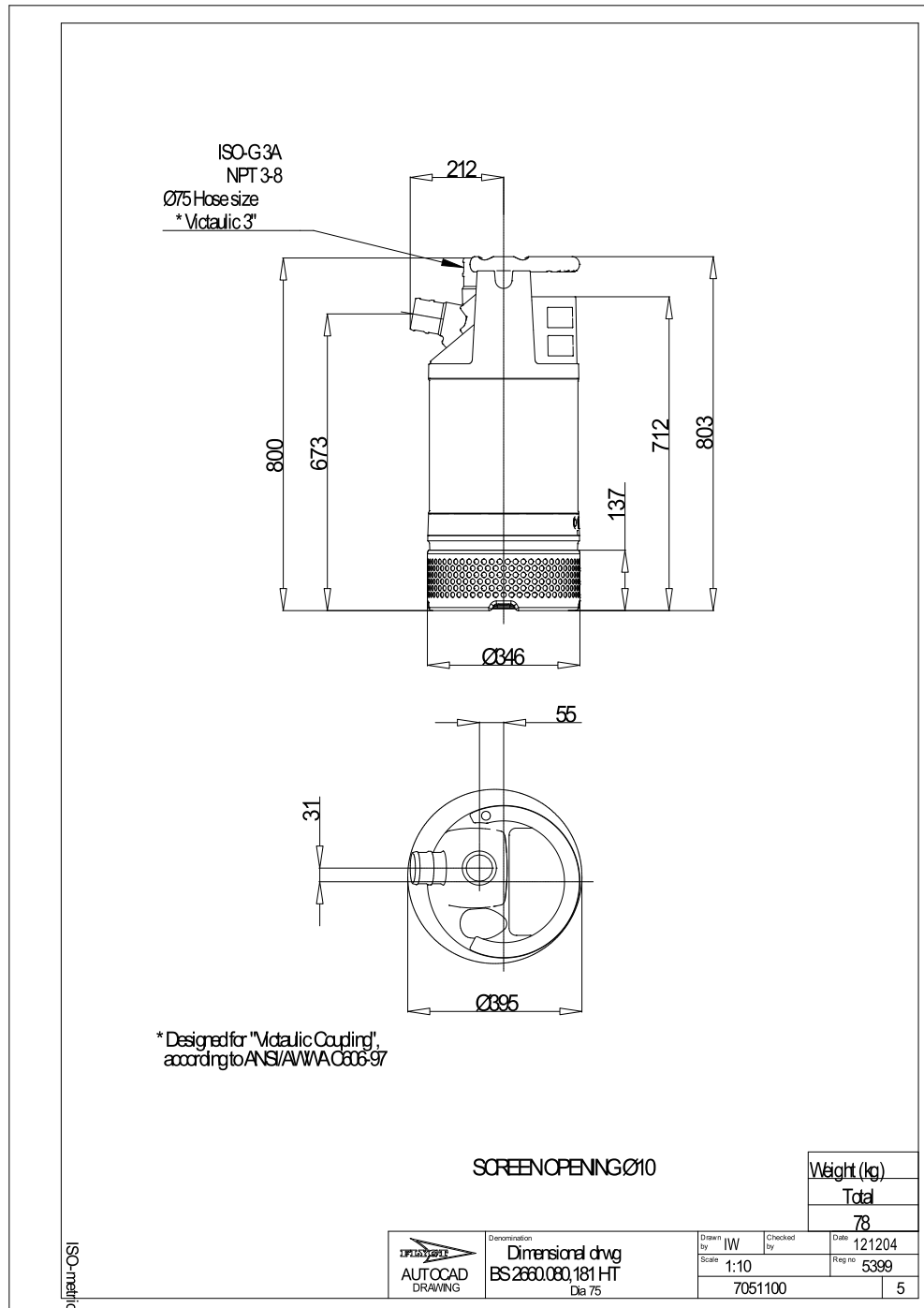
Pumps / Systems	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHre
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Dimensional drawing



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