

## NP 3085 MT 3~ Adaptive 462

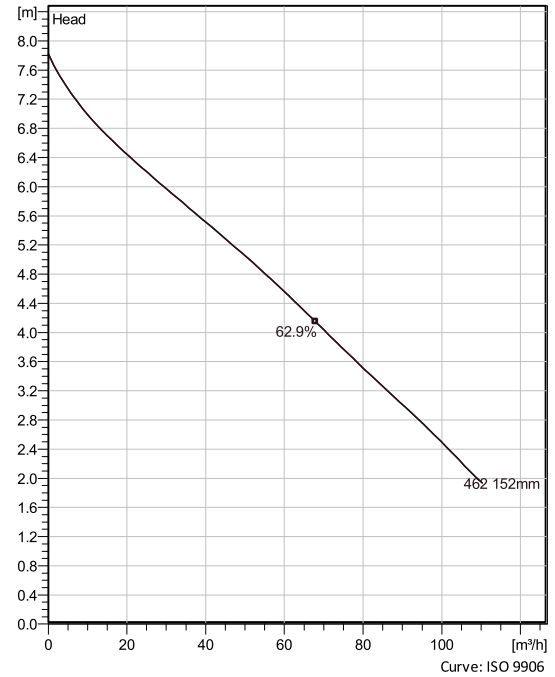
Patented self cleaning semi-open channel impeller, ideal for pumping in most waste water applications. Possible to be upgraded with Guide-pin® for even better clogging resistance. Modular based design with high adaptation grade.



### 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> N3085.160 15-10-4AL-W 2KW	<b>Installation type</b> P - Semi permanent, Wet
<b>Impeller diameter</b> 152 mm	<b>Discharge diameter</b> 80 mm

### Pump information

<b>Impeller diameter</b> 152 mm
<b>Discharge diameter</b> 80 mm
<b>Inlet diameter</b> 80 mm
<b>Maximum operating speed</b> 1400 rpm
<b>Number of blades</b> 2
<b>Max. fluid temperature</b> 40 °C

### Materials

<b>Impeller</b> Grey cast iron
<b>Stator housing material</b> Grey cast iron

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## Technical specification



### Motor - General

<b>Motor number</b> N3085.160 15-10-4AL-W 2KW	<b>Phases</b> 3~	<b>Rated speed</b> 1400 rpm	<b>Rated power</b> 2 kW
<b>Approval</b> No	<b>Number of poles</b> 4	<b>Rated current</b> 4.8 A	<b>Stator variant</b> 61
<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> 160			

### Motor - Technical

<b>Power factor - 1/1 Load</b> 0.80	<b>Motor efficiency - 1/1 Load</b> 75.6 %	<b>Total moment of inertia</b> 0.02 kg m <sup>2</sup>	<b>Starts per hour max.</b> 30
<b>Power factor - 3/4 Load</b> 0.72	<b>Motor efficiency - 3/4 Load</b> 76.9 %	<b>Starting current, direct starting</b> 23 A	
<b>Power factor - 1/2 Load</b> 0.60	<b>Motor efficiency - 1/2 Load</b> 75.1 %	<b>Starting current, star-delta</b> 7.66 A	

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## Performance curve

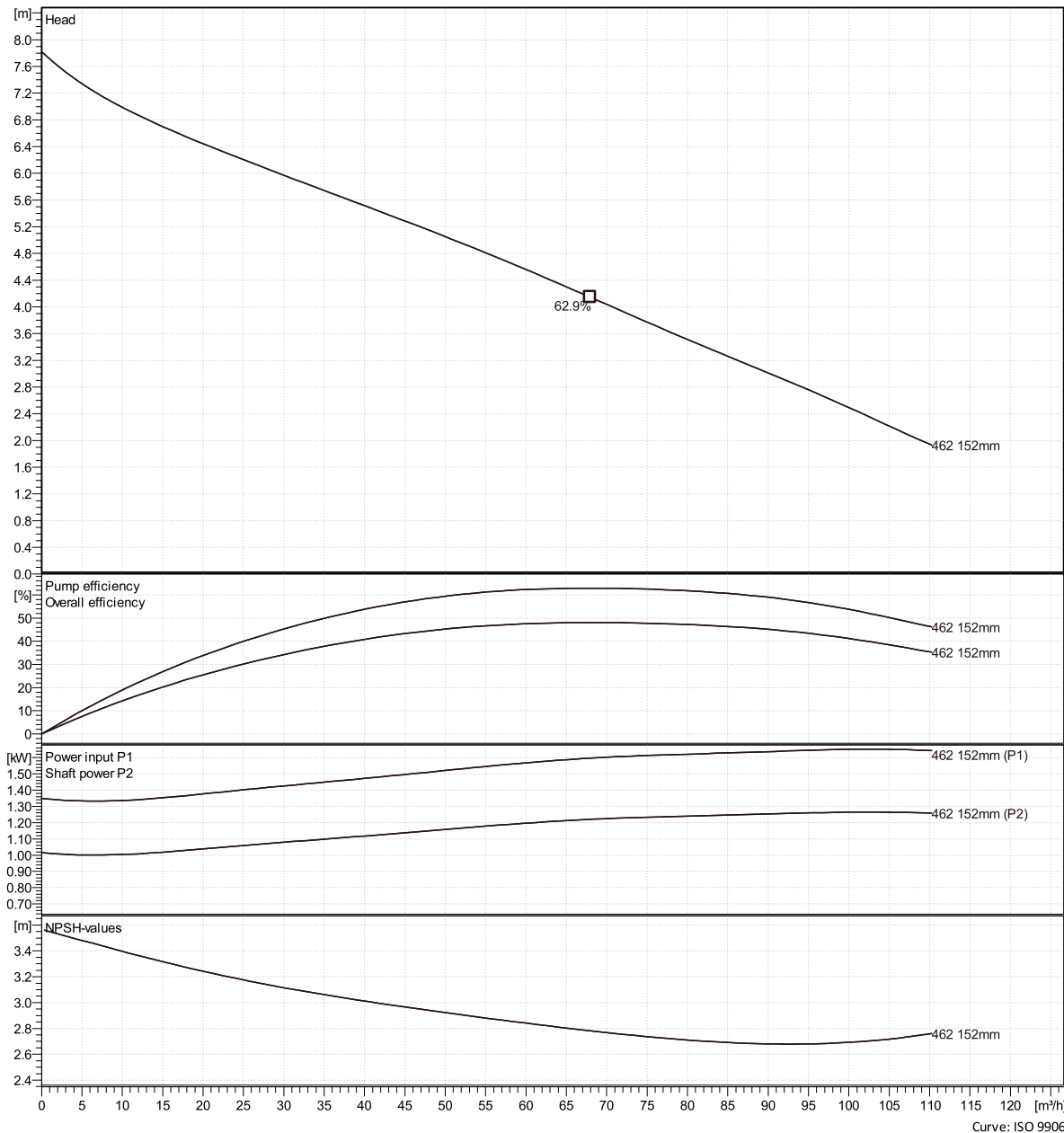


### Duty point

Flow

Head

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



Curve: ISO 9906

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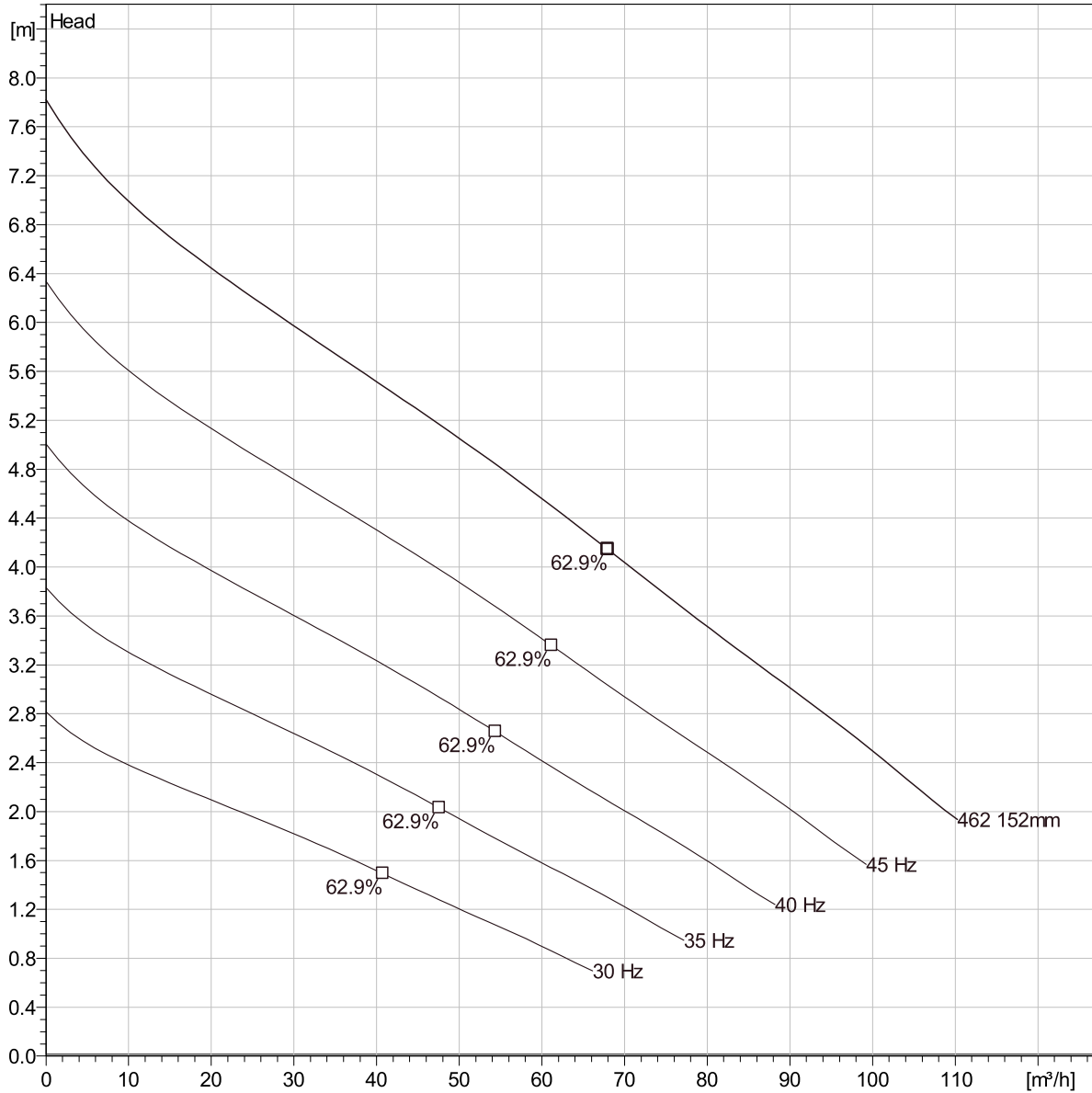
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## Duty Analysis



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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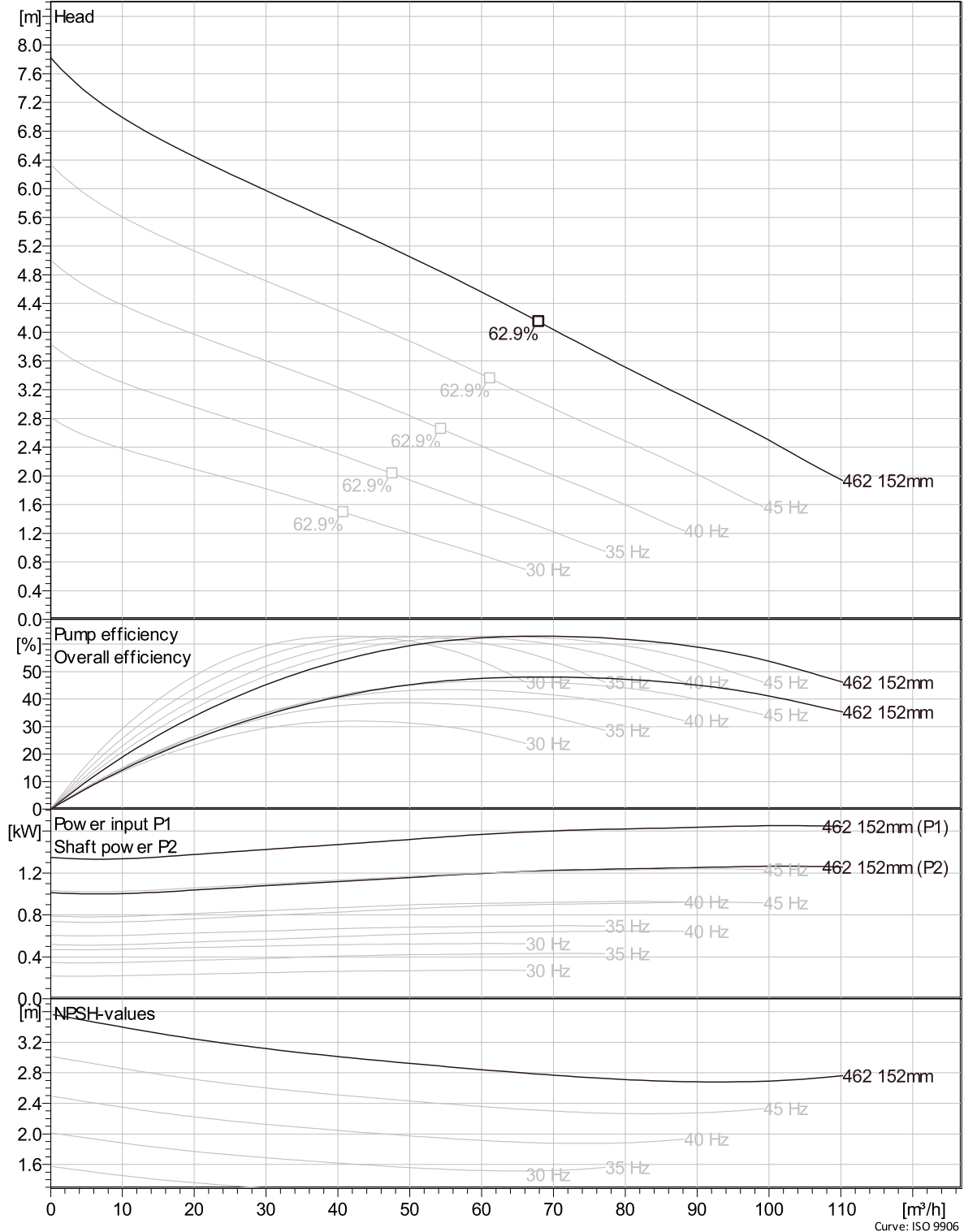
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## VFD Curve



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

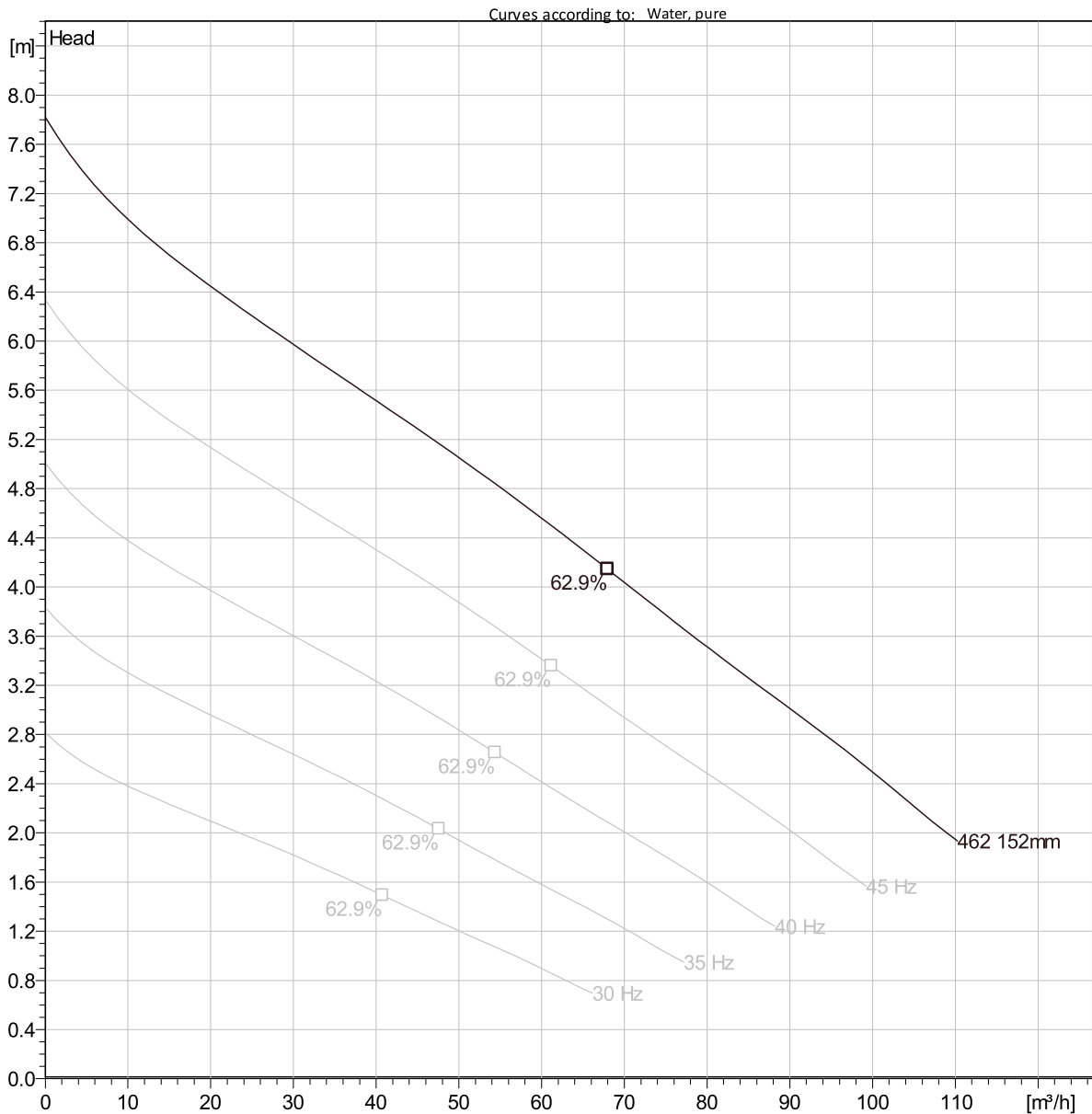


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Curve: ISO 9906

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## VFD Analysis



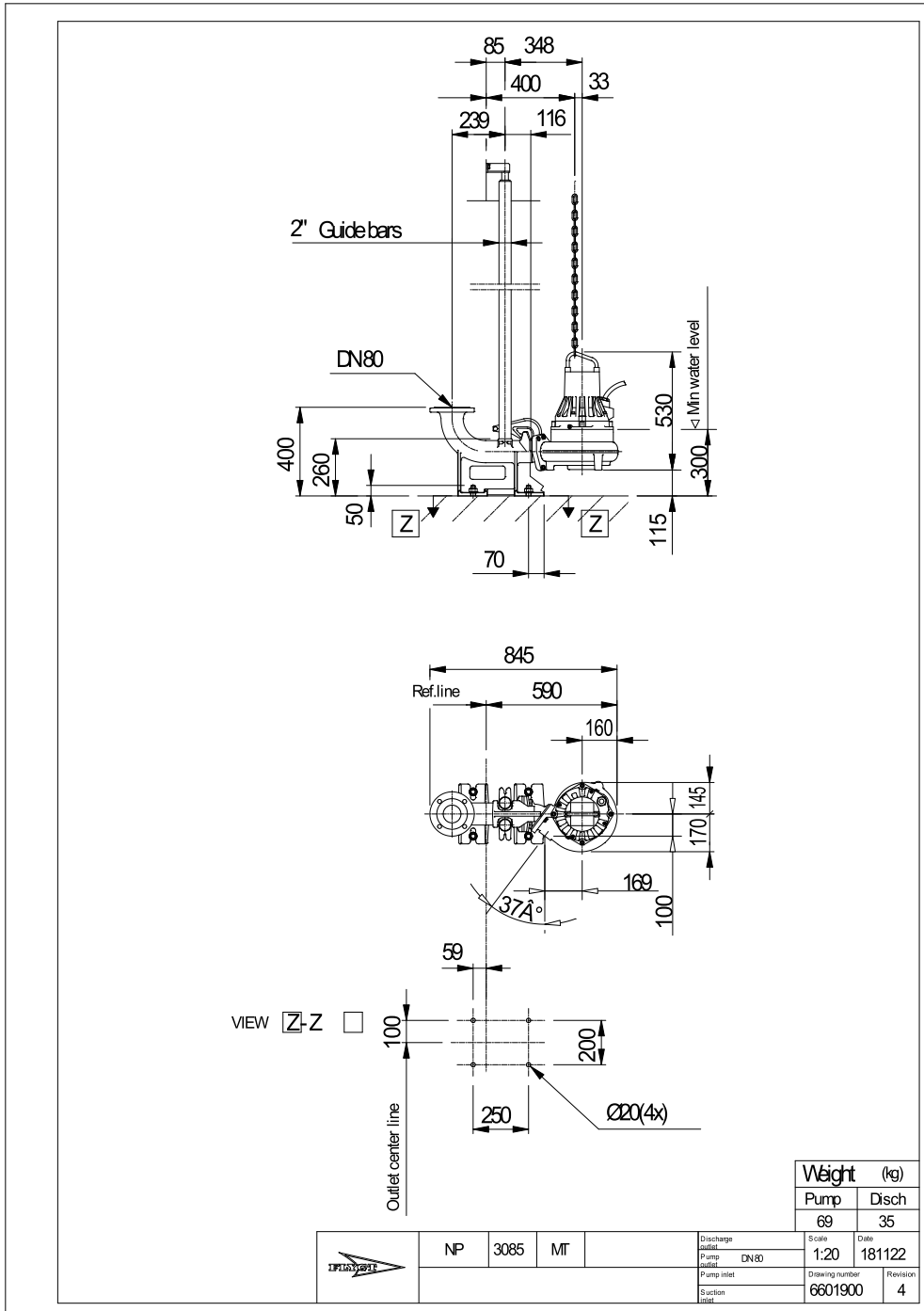
### Operating characteristics

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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