

MP 3090 HT 3~ 250

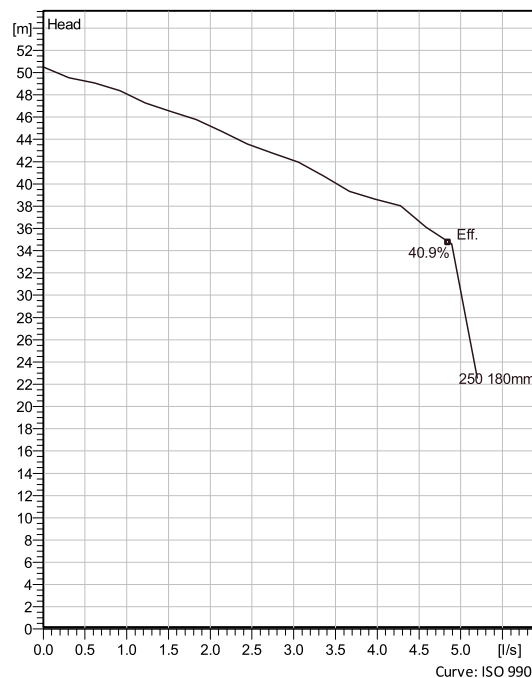
Semi-open multi-channel impellers with integral grinder cutter in single volute casing for liquids containing solids and fibres.



Technical specification



Curves according to: Water, pure Water, pure [100%], 4 °C, 1000 kg/m³, 1.569 mm²/s



Nominal (mean) data shown. Under- and over-performance from this data should be expected due to standard manufacturing tolerances.
Please consult your local Flygt representative for performance guarantees.

Configuration

Motor number M3090.170 15-12-2BB-W 4.3KW	Installation type P - Semi permanent, Wet
Impeller diameter 180 mm	Discharge diameter 40 mm

Pump information

Impeller diameter 180 mm
Discharge diameter 40 mm
Inlet diameter 40 mm
Maximum operating speed 2835 rpm
Number of blades 6
Max. fluid temperature 40 °C

Material

Impeller Grey cast iron
Stator housing material Grey cast iron

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Technical specification



Motor - General

Motor number M3090.170 15-12-2BB-W 4.3KW	Phases 3~	Rated speed 2835 rpm	Rated power 4.3 kW
Approval No	Number of poles 2	Rated current 8 A	Stator variant 2
Frequency 50 Hz	Rated voltage 415 V	Insulation class H	Type of Duty S1
Version code 170			

Motor - Technical

Power factor - 1/1 Load 0.92	Motor efficiency - 1/1 Load 80.5 %	Total moment of inertia 0.0089 kg m ²	Starts per hour max. 30
Power factor - 3/4 Load 0.88	Motor efficiency - 3/4 Load 84.0 %	Starting current, direct starting 43 A	
Power factor - 1/2 Load 0.80	Motor efficiency - 1/2 Load 85.5 %	Starting current, star-delta 14.3 A	

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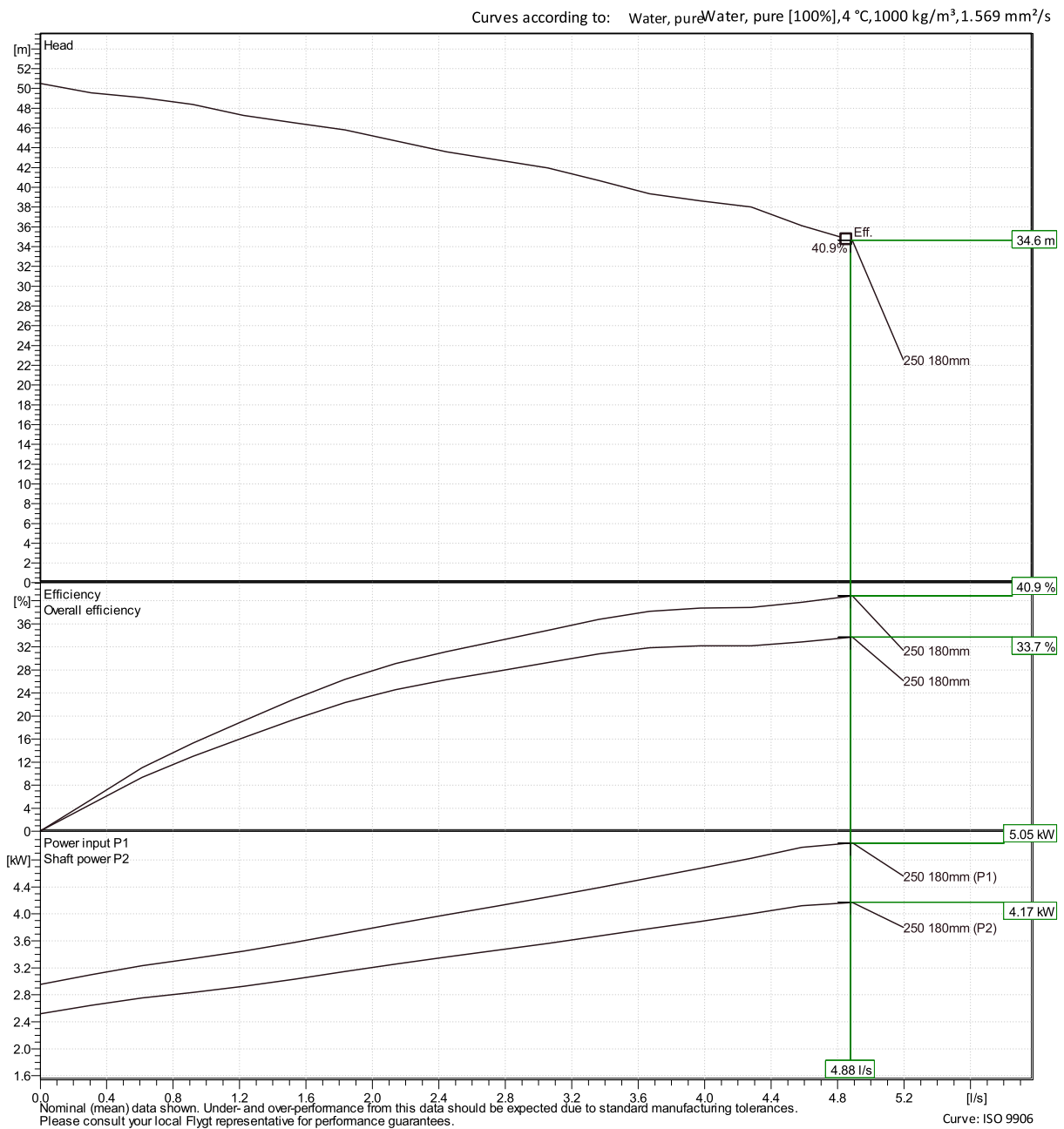
Performance curve



Duty point

Flow
4.88 l/s

Head
34.6 m



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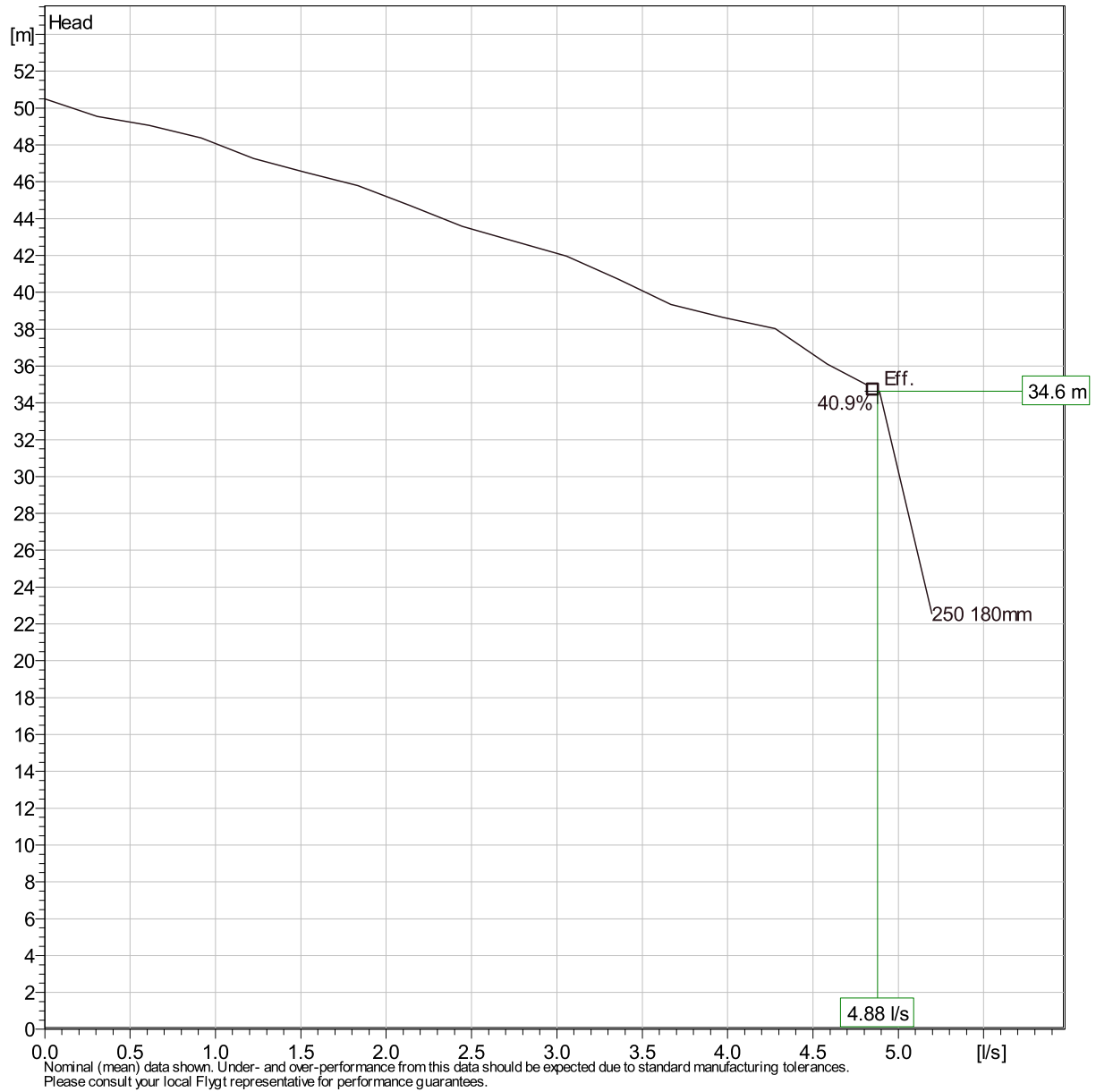
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Duty Analysis



Curves according to: Water, pure [100%] ; 4°C; 1000kg/m³; 1.569mm²/s



Operating characteristics

Pumps / Systems	Flow l/s	Head m	Shaft power kW	Flow l/s	Head m	Shaft power kW	Hydr.eff.	Spec. Energy kWh/m ³	NPSHre m
1	4.88	34.6	4.17	4.88	34.6	4.17	40.9 %	0.288	

Project

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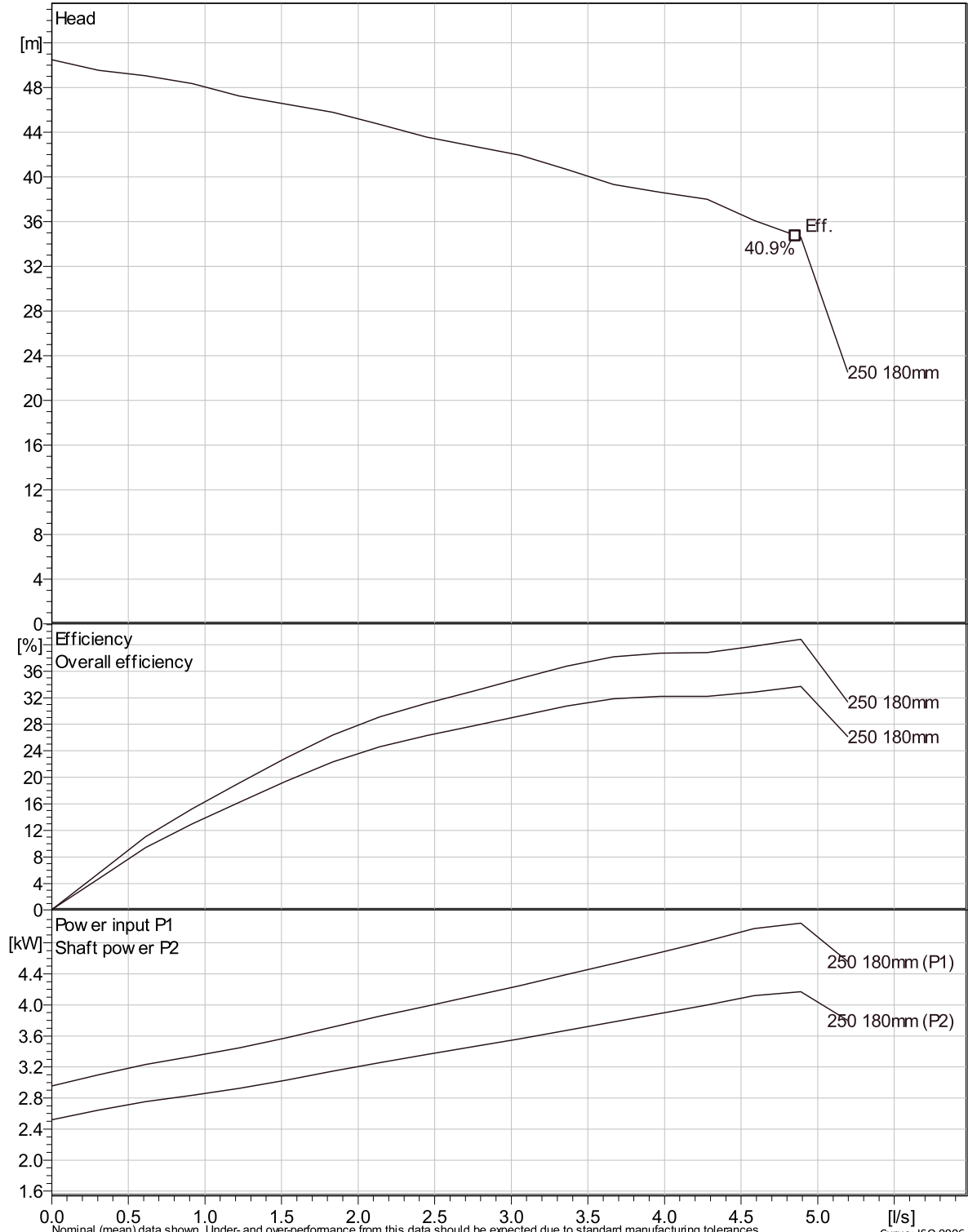
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VFD Curve



Curves according to: Water, pure, 4 °C, 1000 kg/m³, 1.569 mm²/s



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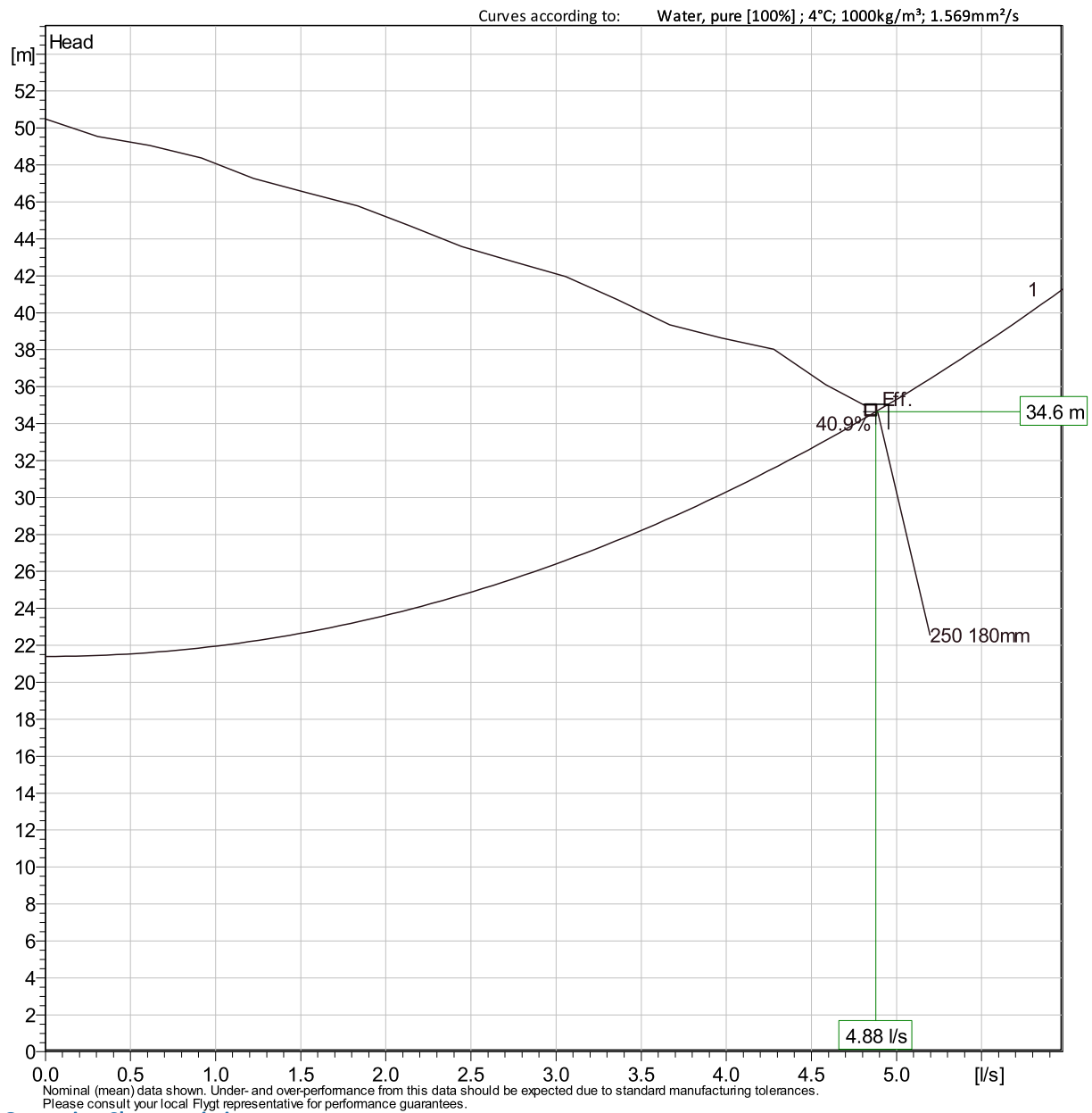
Curve: ISO 9906

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VFD Analysis



Operating Characteristics

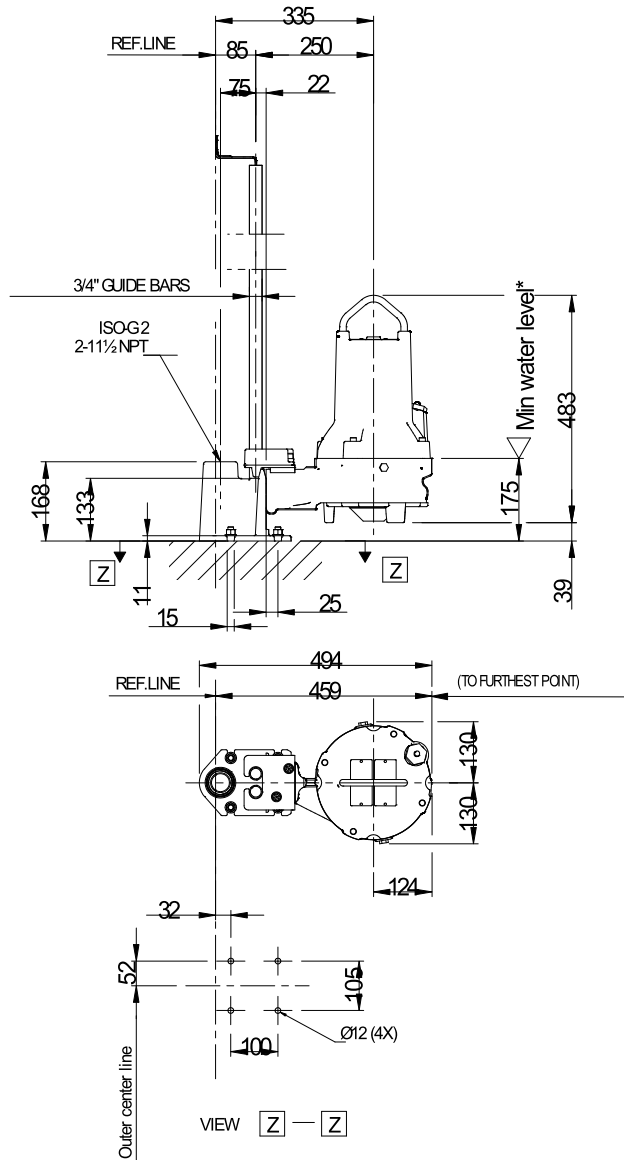
Pumps / Systems	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr. eff.	Specific energy	NPSHre
		l/s	m	kW	l/s	m	kW		kWh/m ³	m
1	49.5 Hz	4.88	34.6	4.17	4.88	34.6	4.17	40.9 %	0.288	

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Dimensional drawing



* Only applicable for intermittent duty.
Consult the ICM for more info.

Weight (kg)	
Pump	Discharge
50	7
Discharge ISO G2	Scale
Pump outlet DN 40	1:10
Pump inlet	Date
Suction inlet	230629
	Drawing number
	7601100
	Revision
	11



MP	3090	HT
170,890		

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