

NP 3153 HT 3~ 466

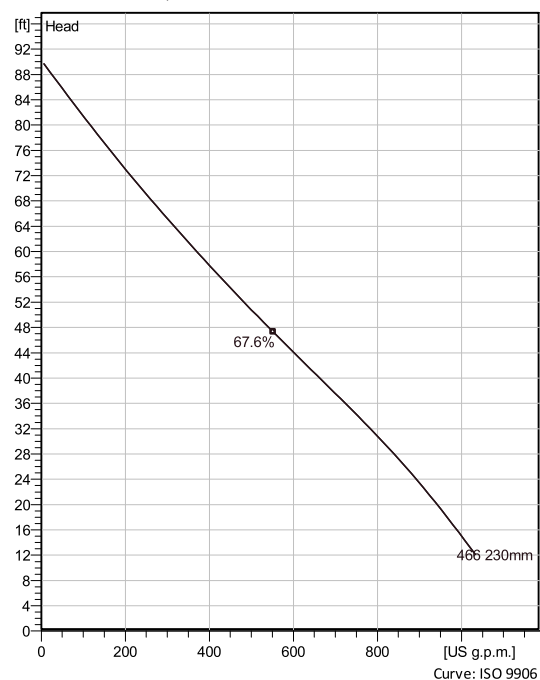
Patented self cleaning semi-open channel impeller, ideal for pumping in most waste water applications. Possible to be upgraded with Guide-pin® for even better clogging resistance. Modular based design with high adaptation grade.



Technical specification



Curves according to: Water, pure ,39.2 °F,62.42 lb/ft³,1.6891E-5 ft²/s



Configuration

Motor number N3153.185 21-15-4AA-W 12hp	Installation type P - Semi permanent, Wet
Impeller diameter 230 mm	Discharge diameter 100 inch

Pump information

Impeller diameter 230 mm
Discharge diameter 100 inch
Inlet diameter 150 mm
Maximum operating speed 1765 rpm
Number of blades 2
Max. fluid temperature 40 °C

Materials

Impeller Hard-Iron

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Created by Daniel Collier
Created on 2/4/2021 Last update 2/4/2021

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Technical specification



Motor - General

Motor number N3153.185 21-15-4AA-W 12hp	Phases 3~	Rated speed 1765 rpm	Rated power 12 hp
ATEX approved No	Number of poles 4	Rated current 16 A	Stator variant 5
Frequency 60 Hz	Rated voltage 460 V	Insulation class H	Type of Duty S1
Version code 185			

Motor - Technical

Power factor - 1/1 Load 0.78	Motor efficiency - 1/1 Load 88.5 %	Total moment of inertia 1.91 lb ft ²	Starts per hour max. 30
Power factor - 3/4 Load 0.71	Motor efficiency - 3/4 Load 88.5 %	Starting current, direct starting 114 A	
Power factor - 1/2 Load 0.58	Motor efficiency - 1/2 Load 87.0 %	Starting current, star-delta 38 A	

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Performance curve

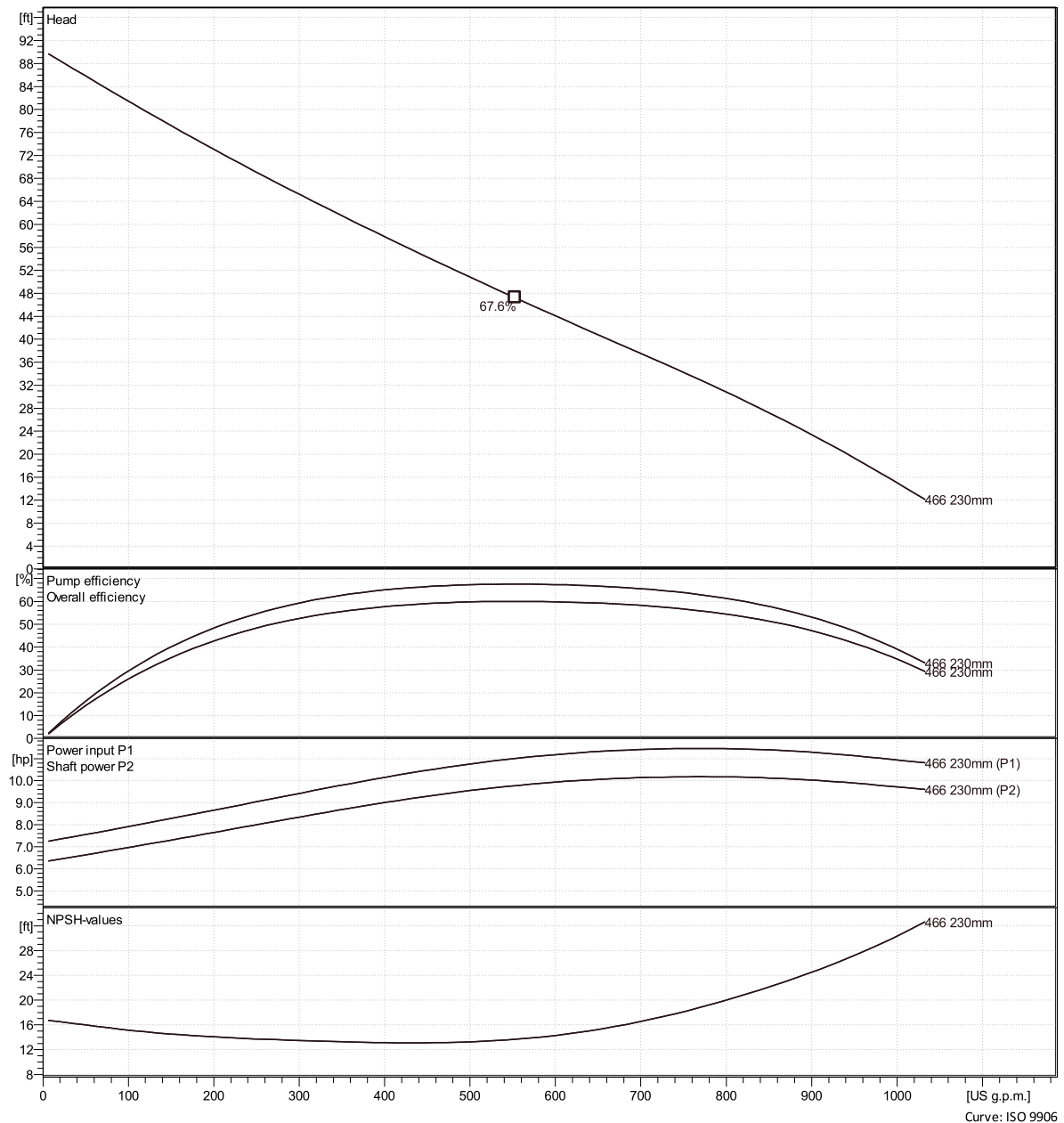


Duty point

Flow

Head

Curves according to: Water, pure 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s



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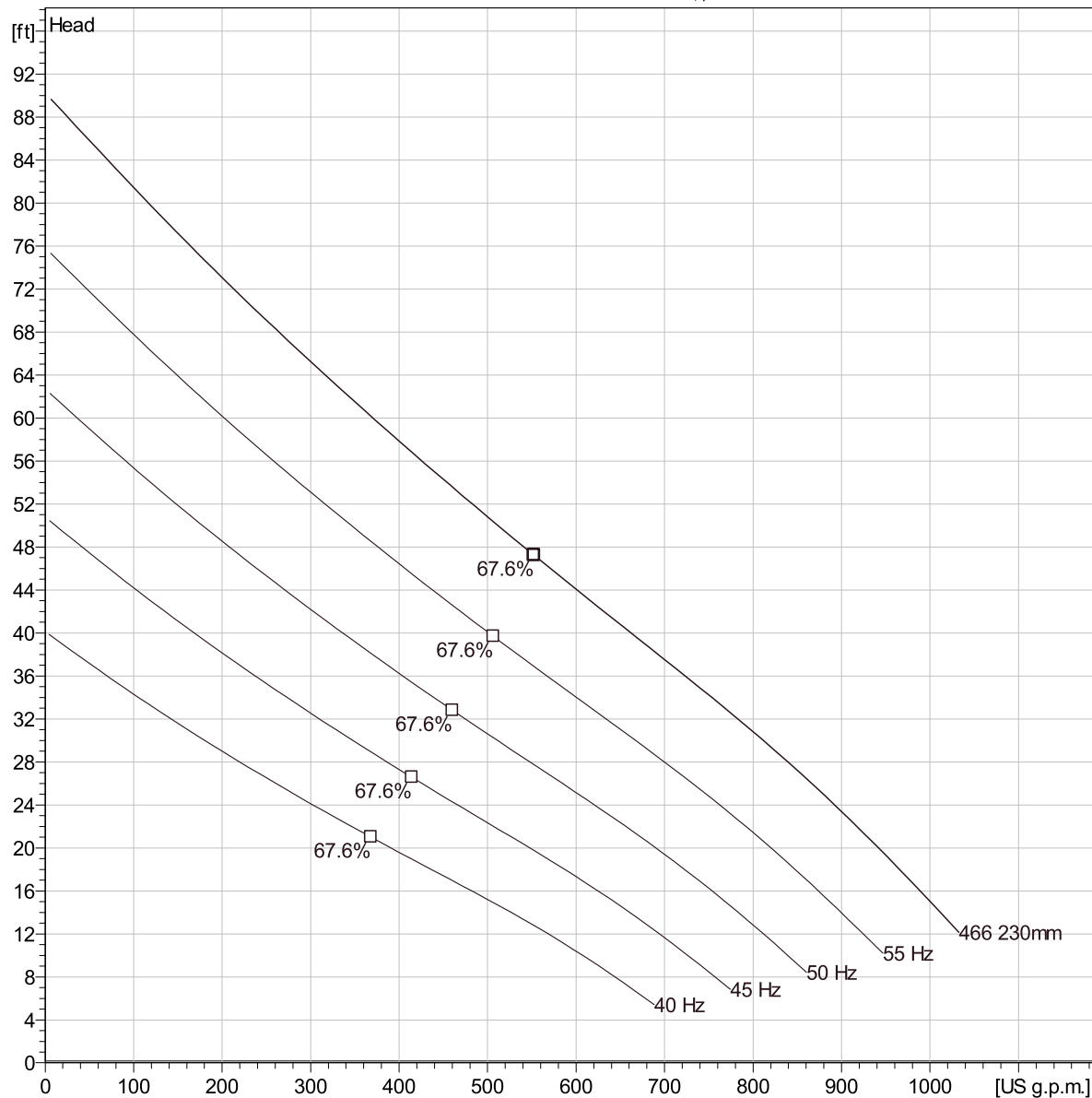
Curve: ISO 9906

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Duty Analysis



Curves according to: Water, pure, 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s



Operating characteristics

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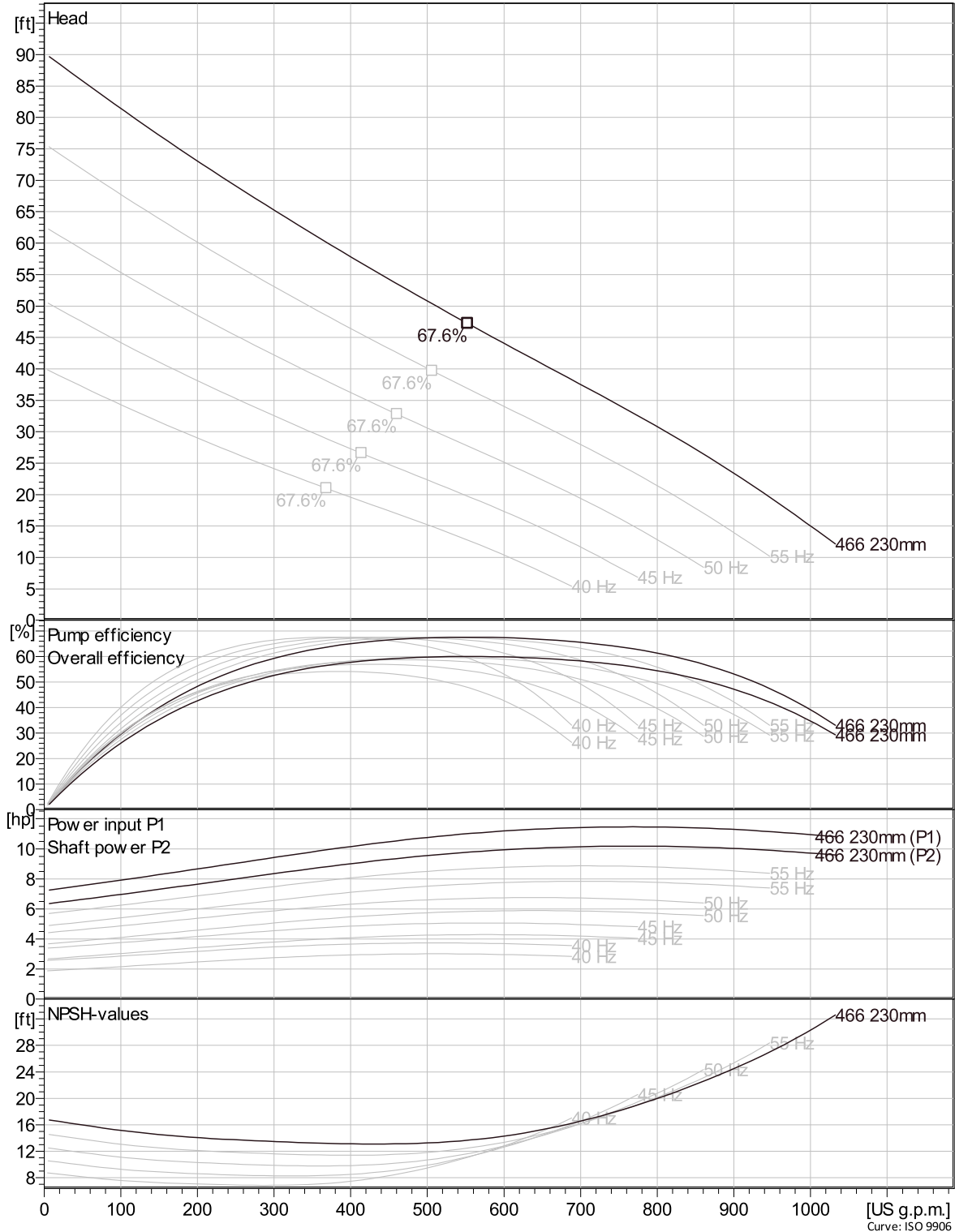
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VFD Curve



Curves according to: Water, pure, 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s

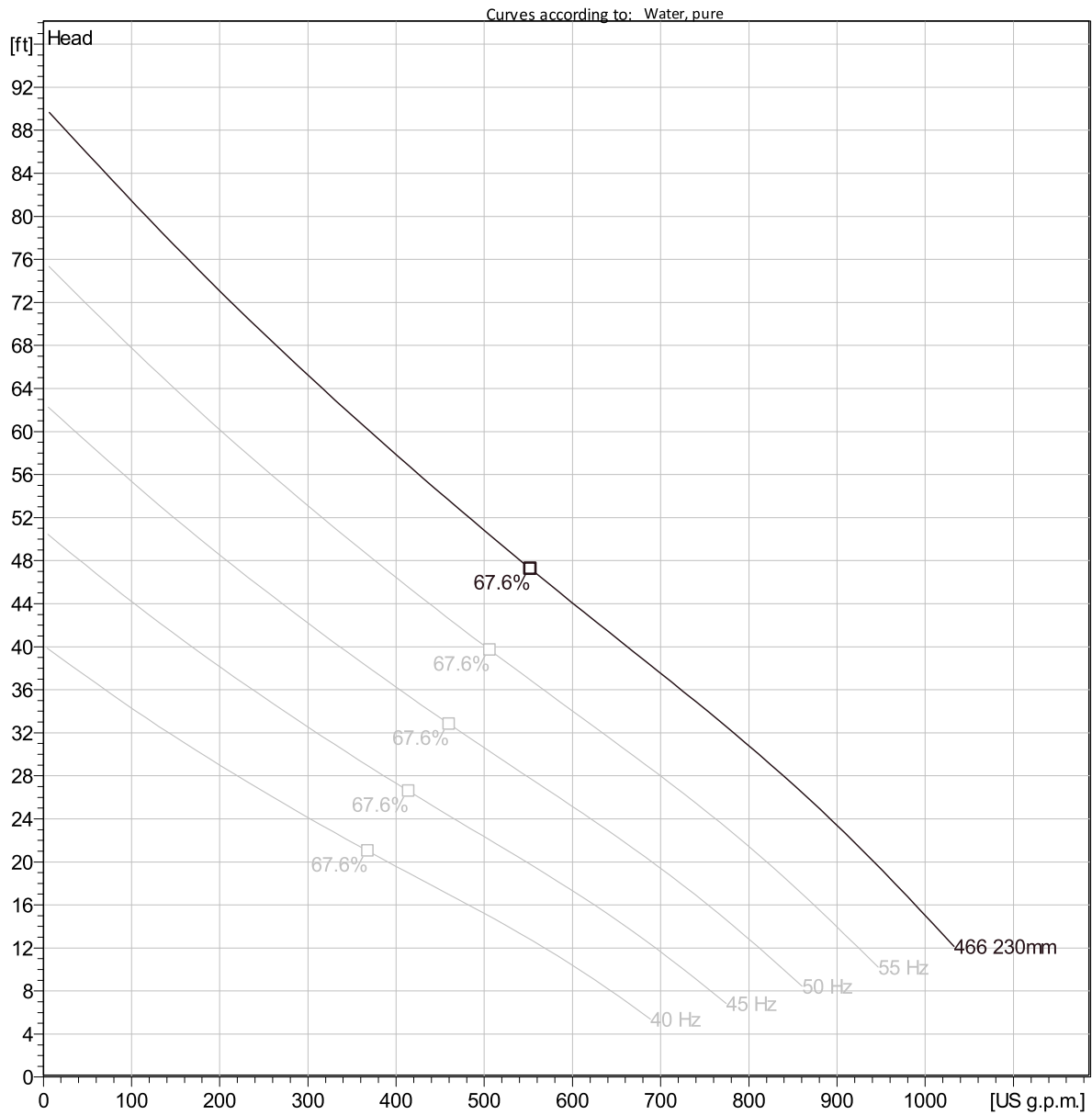


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VFD Analysis

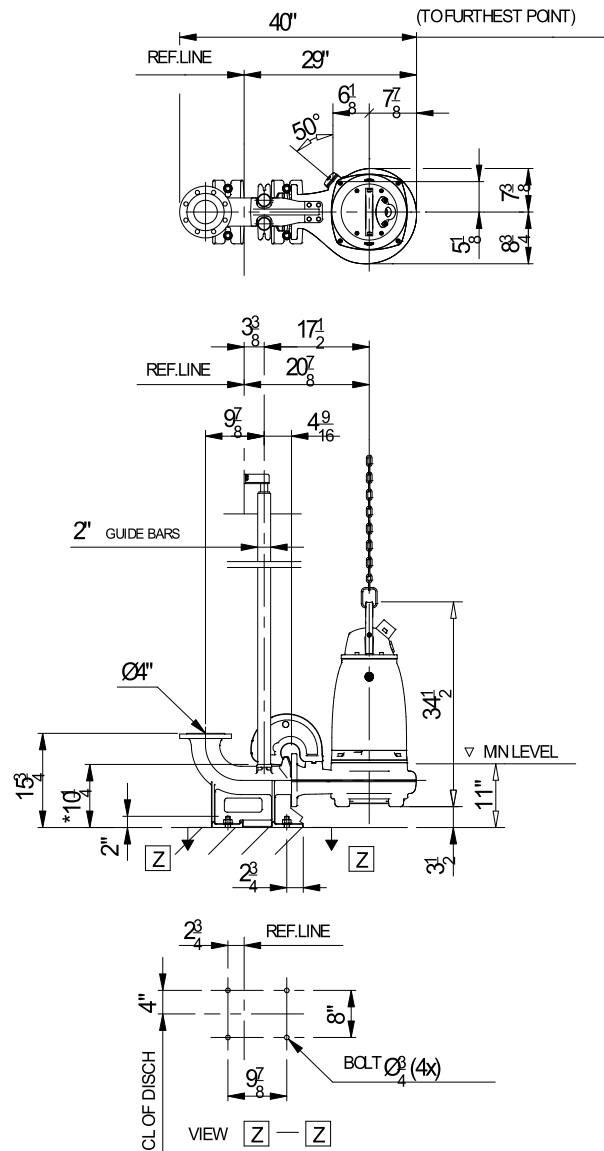


Operating characteristics

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



* DIMENSION TO ENDS OF GUIDE BARS



Denomination
Dimensional drwg
NP,FP 3153 HT
Ø 4"

Drawn by	NK	Checked by	SB	Date	081013
Scale	6504500	Reg no	5399		

Weight	(lbs)
Pump	465
Disch	95

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