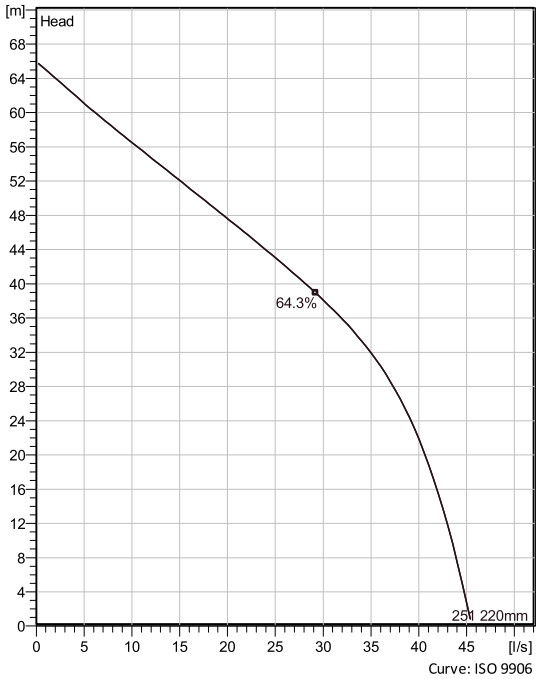
BS 2670 HT 3~ 251

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/m³,1.5692 mm²/s



Curve: ISO 9906

Configuration

Motor number
B2670.181 21-18-2BB-W 18KW

Installation type
S - Portable Semi permanent, Wet

Impeller diameter
220 mm

Discharge diameter
100 m

Pump information

Impeller diameter
220 mm

Discharge diameter
100 m

Inlet diameter
103 mm

Maximum operating speed
2905 rpm

Number of blades
3

Throughlet diameter
22 m

Max. fluid temperature
40 °C

Materials

Impeller
Hard-Iron

Stator housing material
Grey cast iron

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

BS 2670 HT 3~ 251

Technical specification

Motor - General

Motor number B2670.181 21-18-2BB-W 18KW	**Phases** 3~	**Rated speed** 2905 rpm	**Rated power** 18 kW
ATEX approved No	**Number of poles** 2	**Rated current** 33 A	**Stator variant** 7
Frequency 50 Hz	**Rated voltage** 400 V	**Insulation class** H	**Type of Duty** S1
Version code 181			

Motor - Technical

Power factor - 1/1 Load 0.89	**Motor efficiency - 1/1 Load** 89.5 %	**Total moment of inertia** 0.052 kg m²	**Starts per hour max.** 30
Power factor - 3/4 Load 0.85	**Motor efficiency - 3/4 Load** 91.0 %	**Starting current, direct starting** 238 A	
Power factor - 1/2 Load 0.75	**Motor efficiency - 1/2 Load** 91.0 %	**Starting current, star-delta** 79.3 A	

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

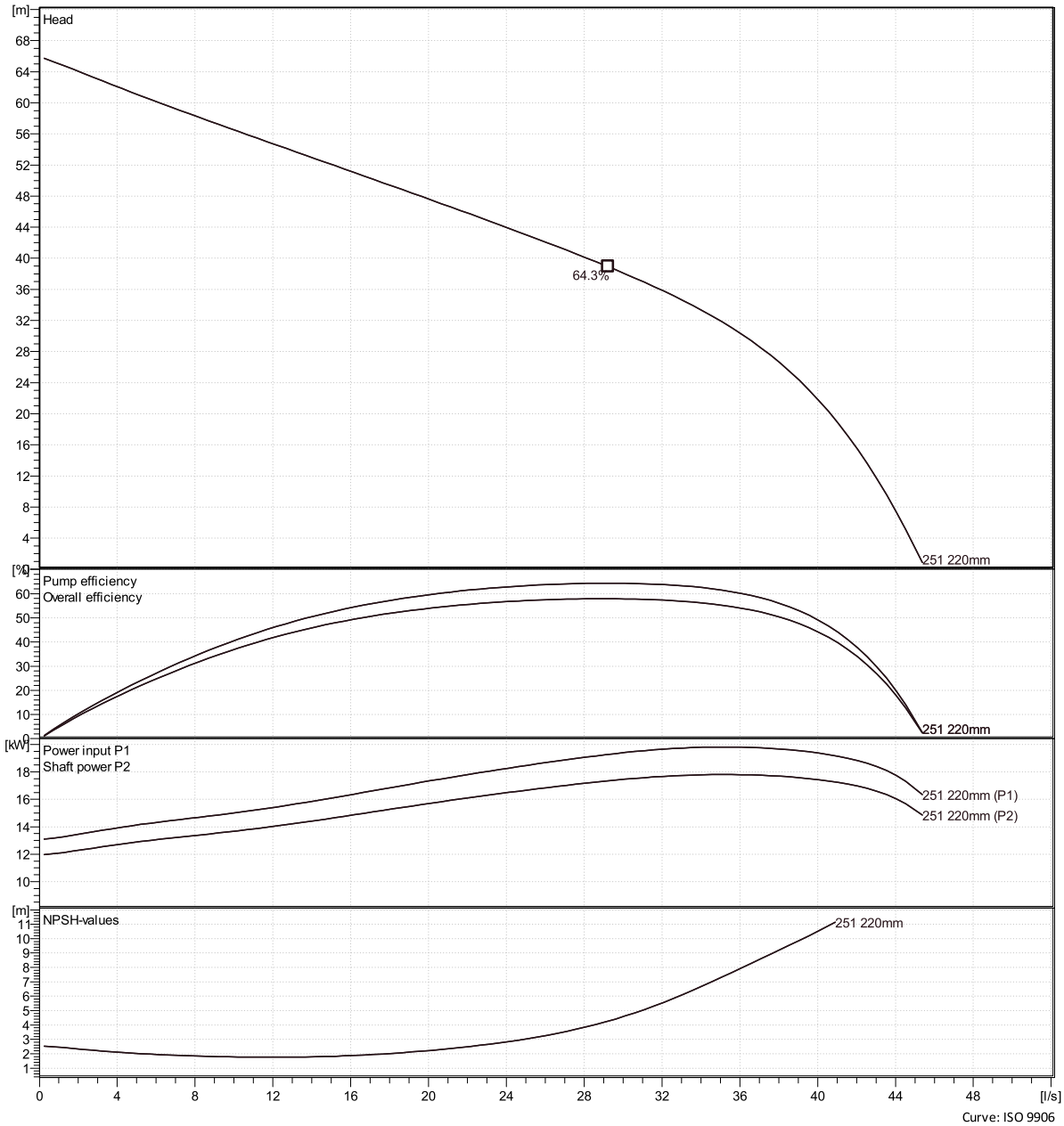
BS 2670 HT 3~ 251

Performance curve

Duty point

Flow	Head

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



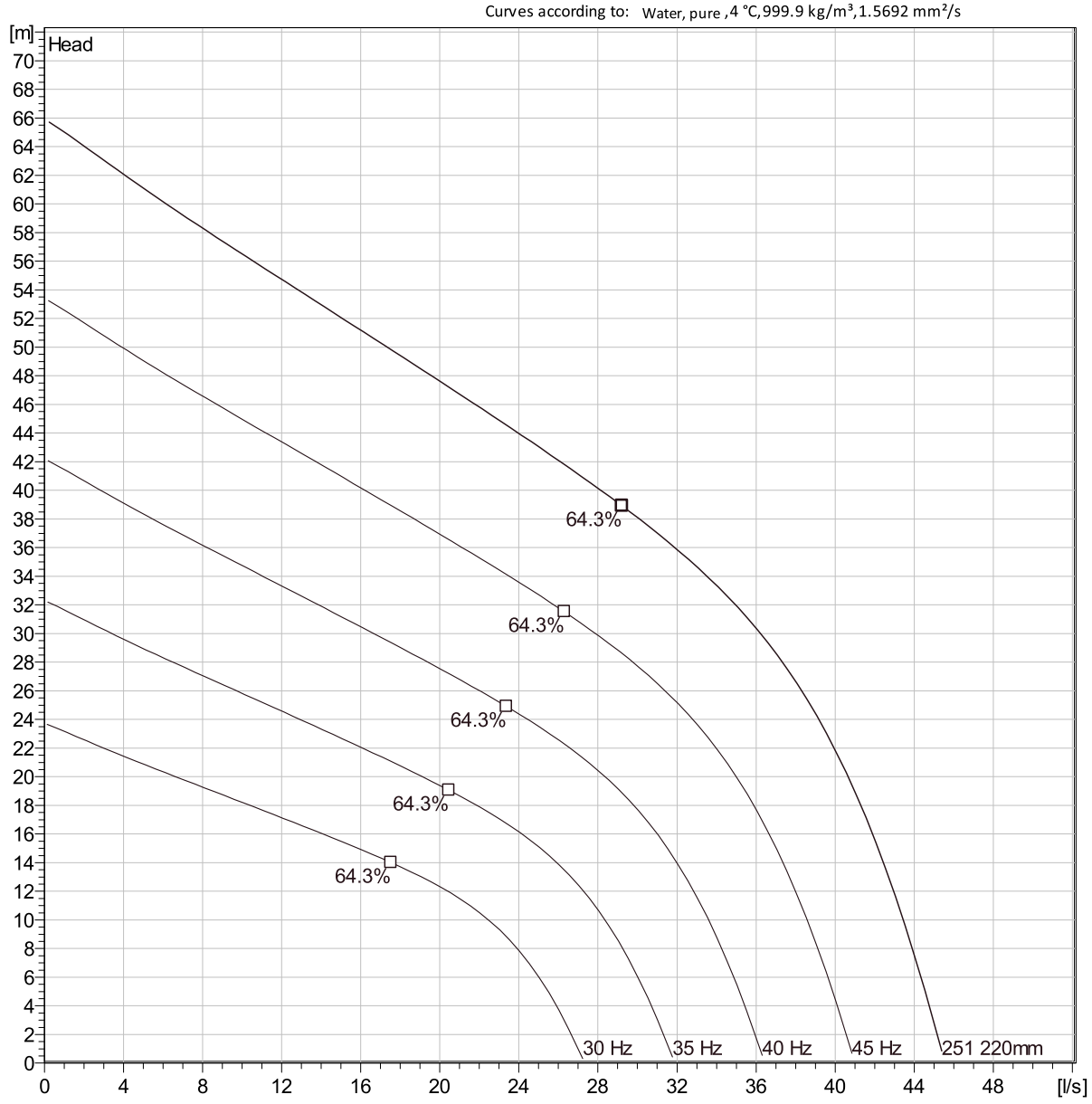
Curve: ISO 9906

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

BS 2670 HT 3~ 251

Duty Analysis

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



Operating characteristics

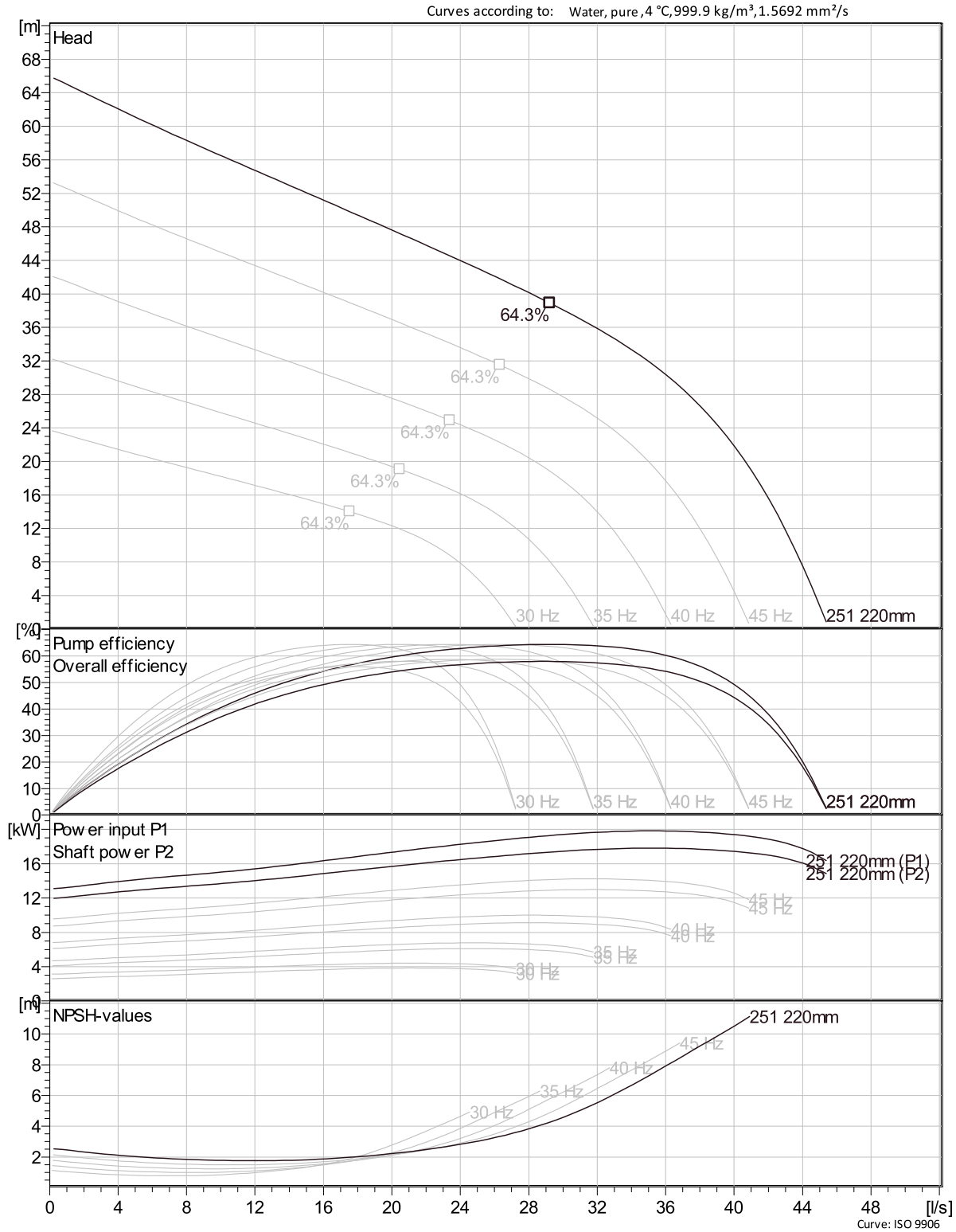
Pumps / Systems	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHre

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

BS 2670 HT 3~ 251

VFD Curve

FLYGT
a xylem brand

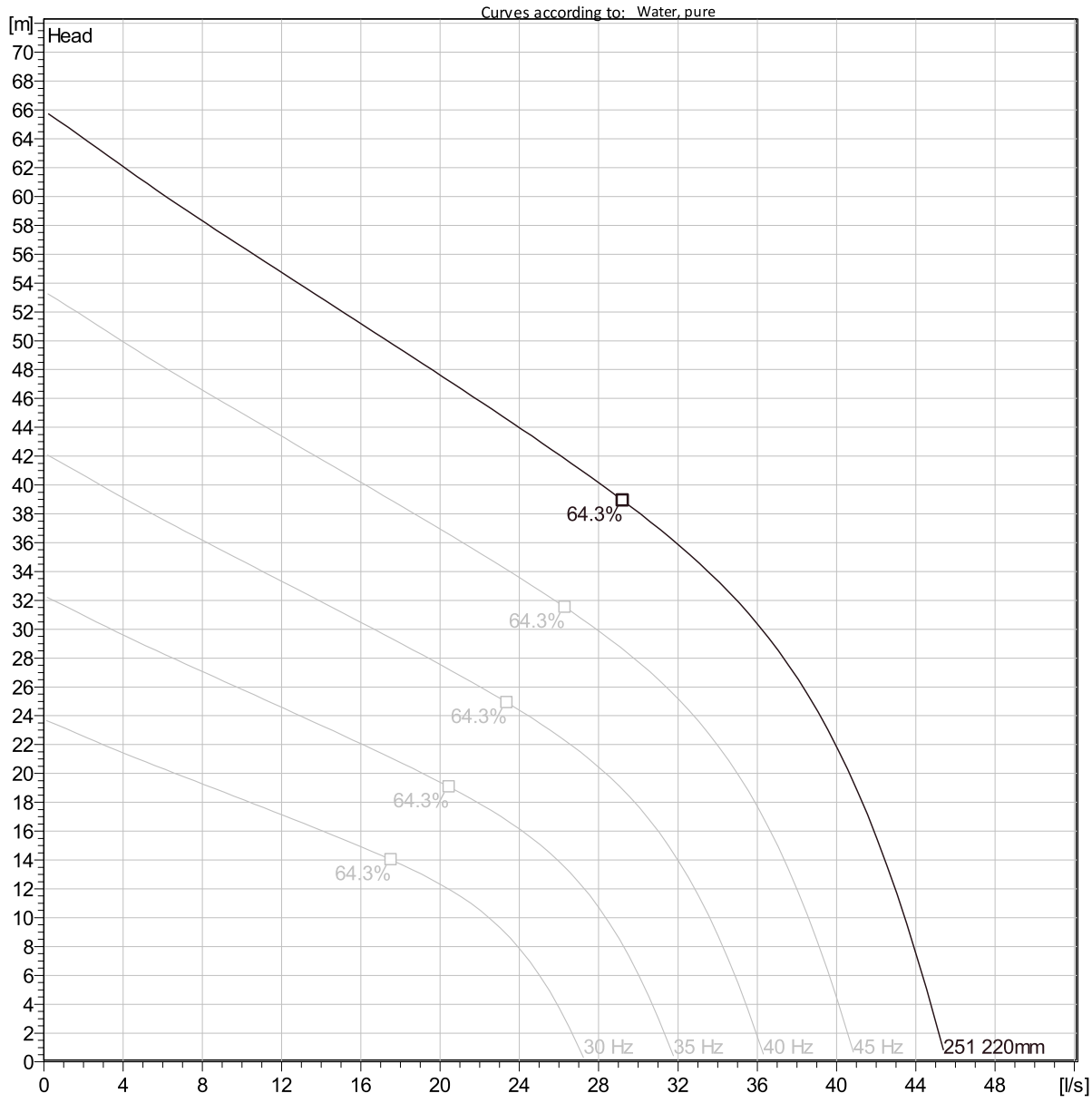


Curve: ISO 9906

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

BS 2670 HT 3~ 251

VFD Analysis



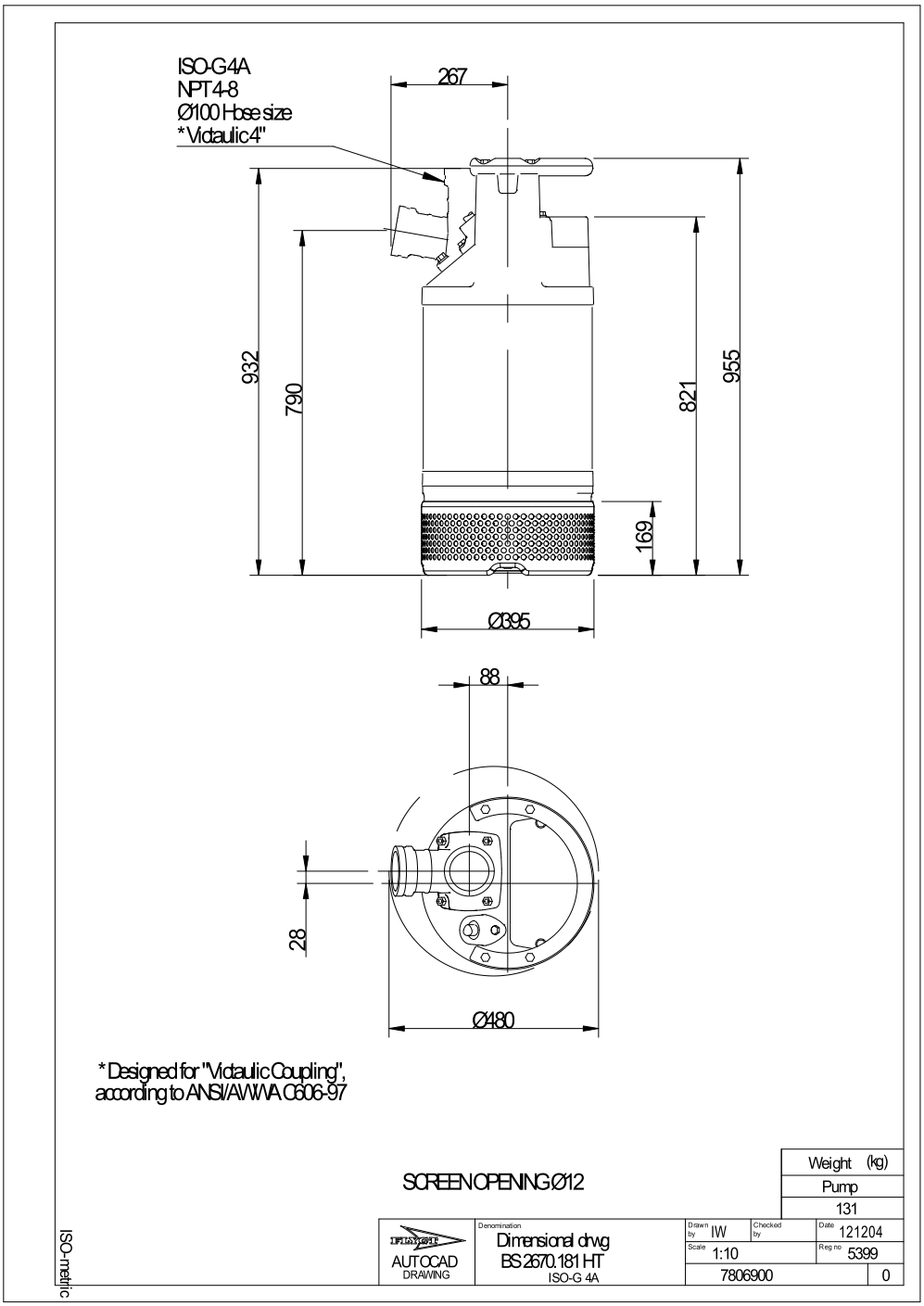
Operating characteristics

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

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

BS 2670 HT 3~ 251

Dimensional drawing



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