BS 2660 SH 3~ 276

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

FLYGT
a **xylem** brand

Technical specification

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

Eff.
57.6%

276 174mm

Curve: ISO 9906
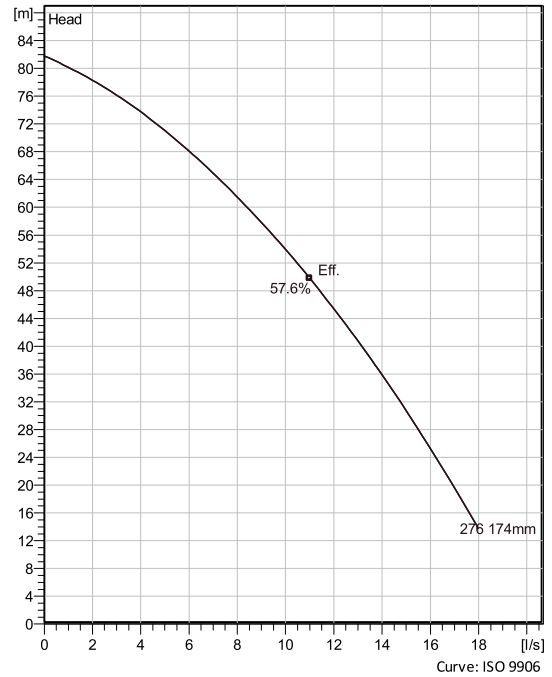
Configuration

Motor number
B2660.181 18-15-2BB-W
10KW

Installation type
S - Portable Semi
permanent, Wet

Impeller diameter
174 mm

Discharge diameter
100 m

Pump information

Impeller diameter
174 mm

Discharge diameter
100 m

Inlet diameter
100 mm

Maximum operating speed
2865 rpm

Number of blades
3

Max. fluid temperature
40 °C

Materials

Impeller
Hard-Iron

Stator housing material
Aluminium

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

BS 2660 SH 3~ 276

Technical specification

Motor - General

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

Motor - Technical

Power factor - 1/1 Load	**Motor efficiency - 1/1 Load**	**Total moment of inertia**	**Starts per hour max.**
0.88	85.7 %	0.007 kg m²	30
Power factor - 3/4 Load	**Motor efficiency - 3/4 Load**	**Starting current, direct starting**	
0.84	87.6 %	115 A	
Power factor - 1/2 Load	**Motor efficiency - 1/2 Load**	**Starting current, star-delta**	
0.74	88.1 %	38.3 A	

BS 2660 SH 3~ 276

Performance curve

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Duty point

Flow   **Head**

Curves according to: Water, pure 4 °C, 999.9 kg/m³, 1.5692 mm²/s
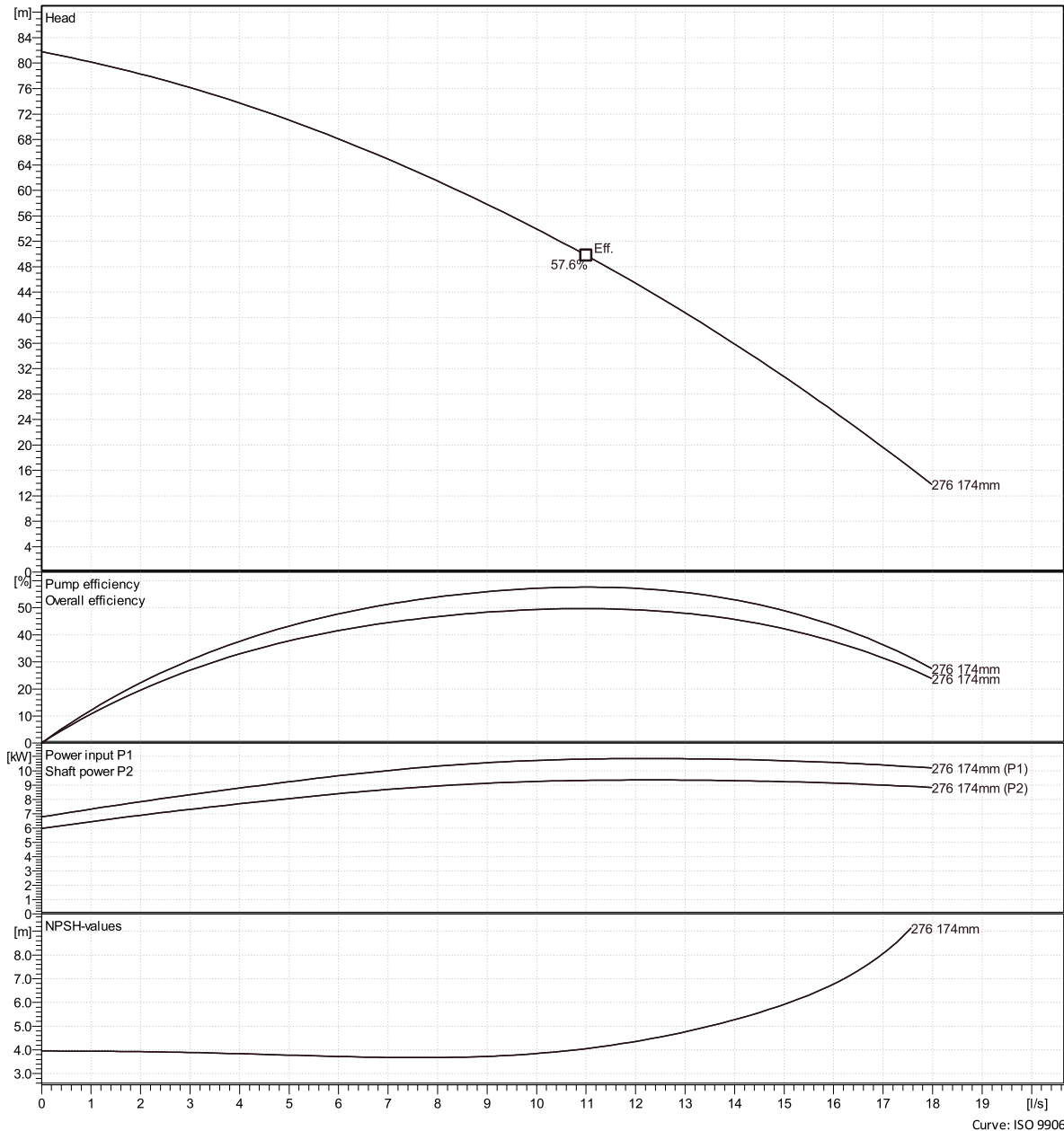
Eff.
57.6%

276 174mm

[%] Pump efficiency
Overall efficiency

276 174mm
276 174mm

[kW] Power input P1
Shaft power P2

276 174mm (P1)
276 174mm (P2)

[m] NSPH-values

276 174mm

Curve: ISO 9906

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

BS 2660 SH 3~ 276

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

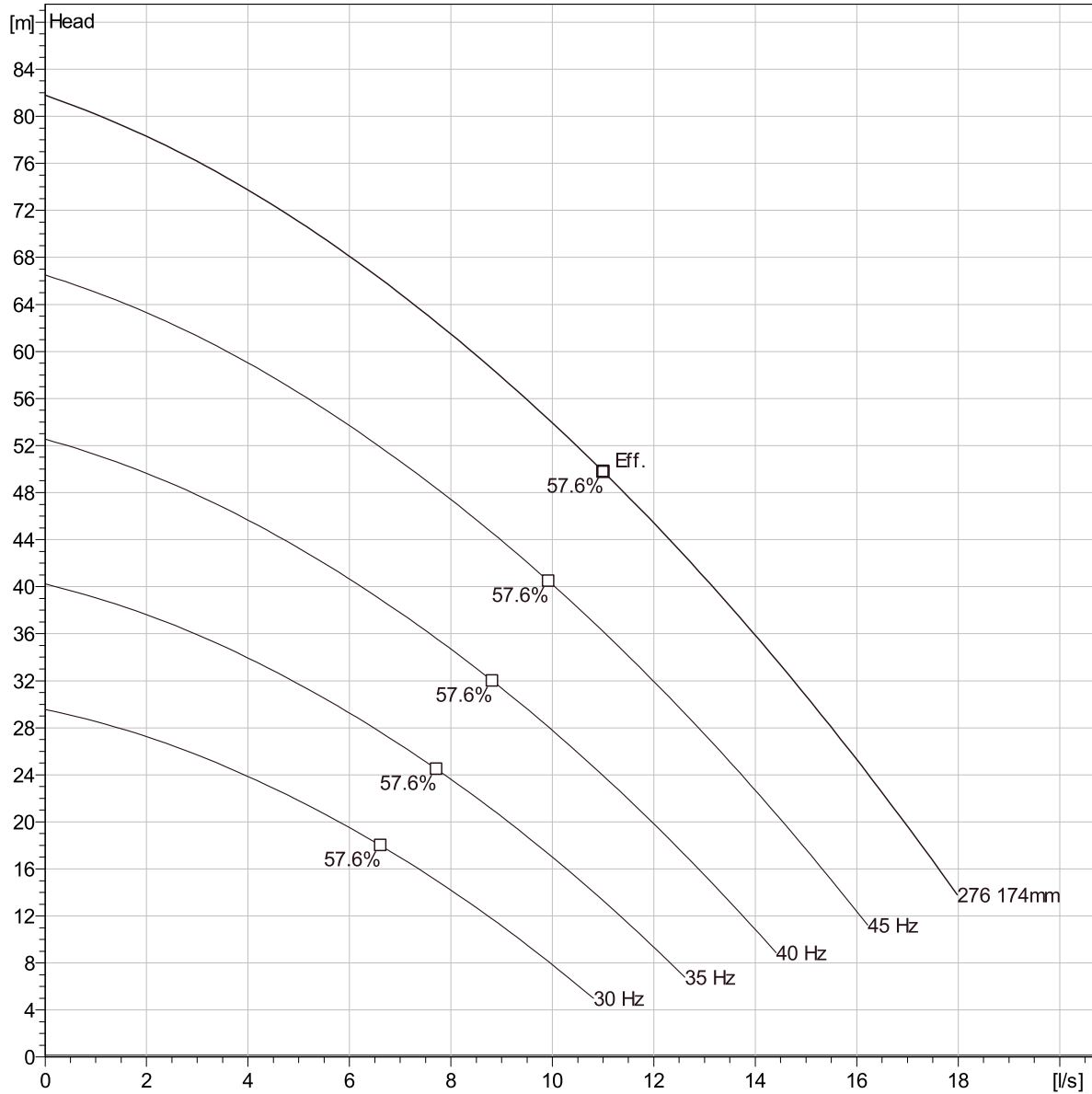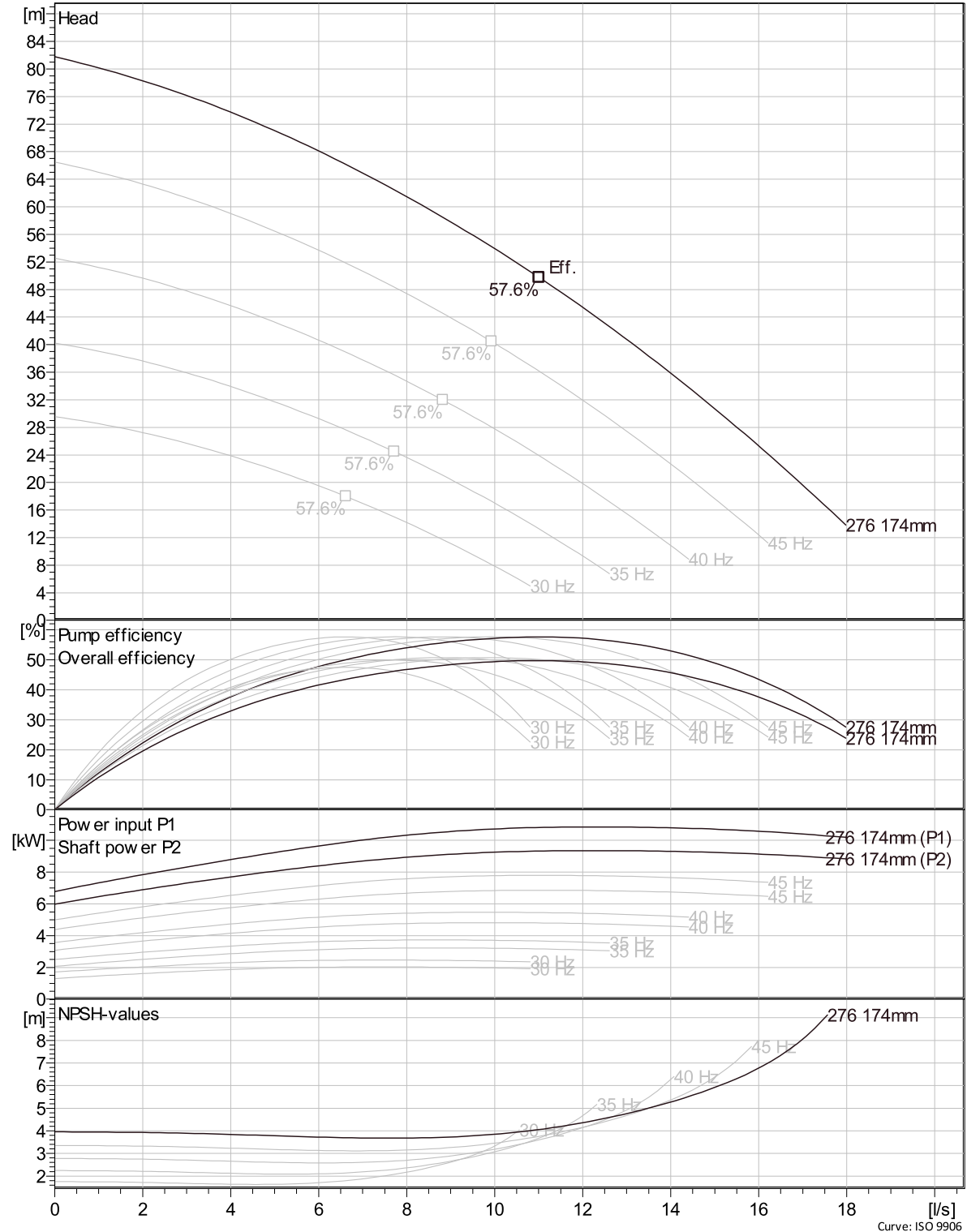|		
Project	**Created by**	Joshua Harvey
Block	**Created on**	2/11/2021 **Last update** 2/11/2021

BS 2660 SH 3~ 276

VFD Curve

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

Eff.
57.6%

57.6%

57.6%

57.6%

57.6%

276 174mm

45 Hz

40 Hz

35 Hz

30 Hz

[%] Pump efficiency
Overall efficiency

30 Hz   35 Hz   40 Hz   45 Hz   276 174mm
30 Hz   276 174mm

[kW] Power input P1
Shaft power P2

276 174mm (P1)
276 174mm (P2)

45 Hz
45 Hz

40 Hz

35 Hz

30 Hz

[m] NPSH-values   276 174mm

45 Hz

40 Hz

35 Hz

30 Hz

Curve: ISO 9906

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

BS 2660 SH 3~ 276

VFD Analysis

Curves according to: Water, pure

Pump curve chart: Head [m] vs Flow [l/s]. Efficiency marked 57.6% at multiple points (Eff.). Curve labeled 276 174mm. Frequency curves: 30 Hz, 35 Hz, 40 Hz, 45 Hz.
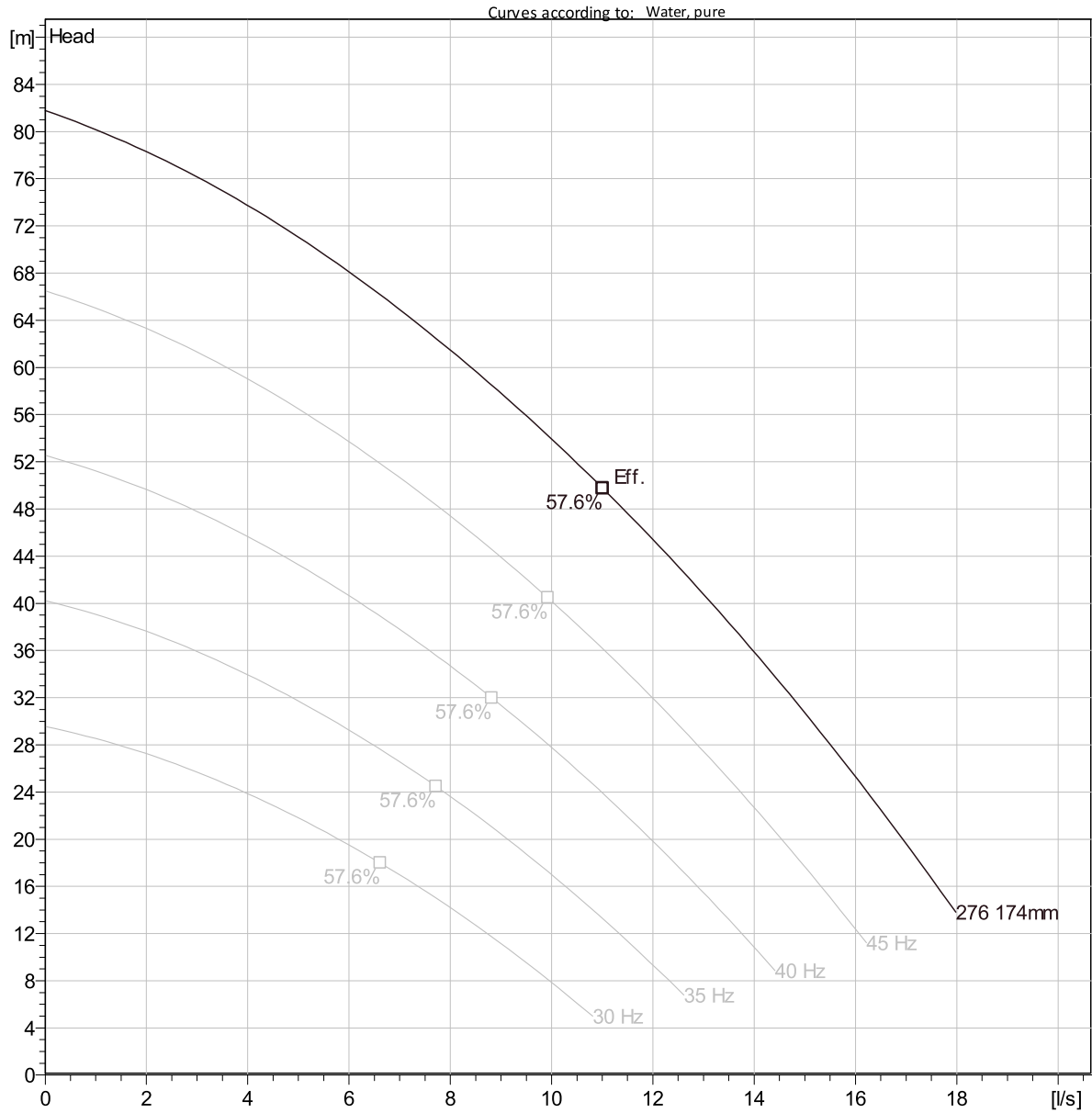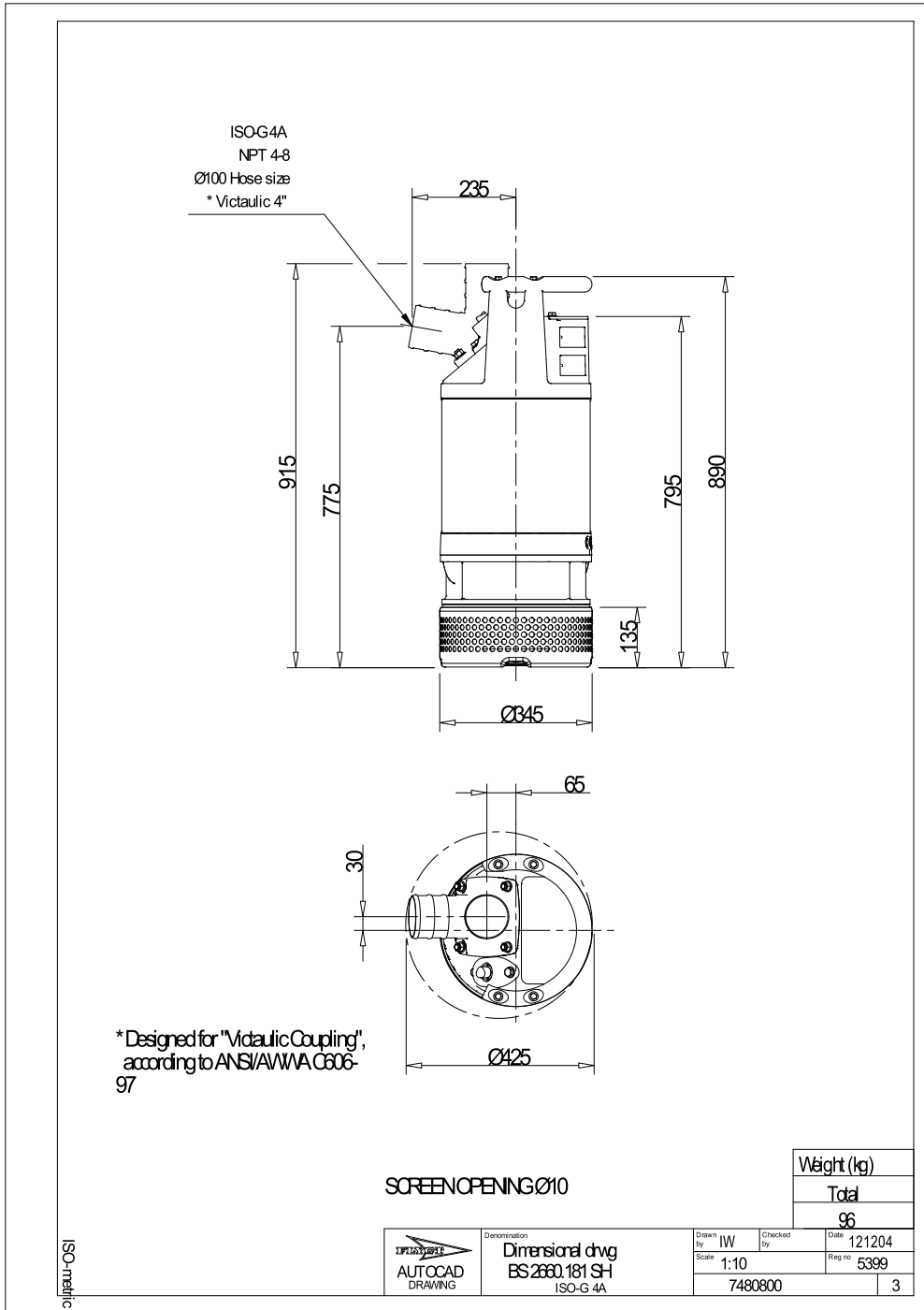
Operating characteristics

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

BS 2660 SH 3~ 276

Dimensional drawing

FLYGT
a **xylem** brand

ISO-G 4A
NPT 4-8
Ø100 Hose size
* Victaulic 4"

235

915
775

890
795

135

Ø345

65

30

* Designed for "Victaulic Coupling",
according to ANSI/AWWA C606-97

Ø425

SCREEN OPENING Ø10

ISO-metric

Weight (kg)	
Total	
96	

	Denomination	Drawn by	IW	Checked by		Date	121204
FLYGT AUTOCAD DRAWING	Dimensional drwg BS 2660.181 SH ISO-G 4A	Scale	1:10			Reg no	5399
		7480800					3