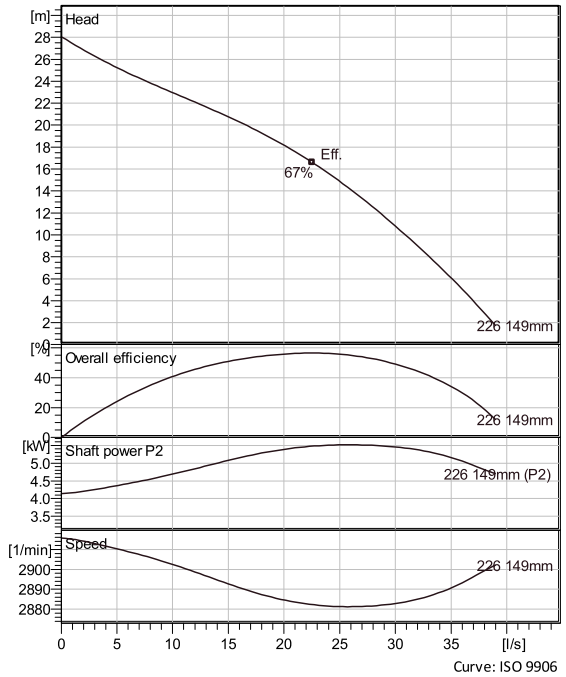
8104 Major N 3~

Grindex drainage pumps are designed for professional use in tough applications like mines, construction sites, tunnel sites and other demanding industries. They are designed for pumping water that may contain solids
– up to the size of the strainer holes. Grindex drainage pumps are designed for continuous, unattended operation. They have proven their reliability and dependable performance in demanding areas like building and construction, mining, tunnelling, quarries, industries and rental applications.

Technical specification

Curves according to: Water, pure [100%],4 °C,1 kg/dm³,1.569 mm²/s



Configuration

Motor number
B8104.181 15-14-2BB-W 5.6KW

Installation type
S - Portable Semi permanent, Wet

Impeller diameter
149 mm

Discharge diameter
100 mm

Pump information

Impeller diameter
149 mm

Discharge diameter
100 mm

Inlet diameter

Maximum operating speed
2895 1/min

Number of blades
2

Materials

Impeller
Hard-Iron

Stator housing material
Aluminium

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Technical specification

Motor - General

Motor number B8104.181 15-14-2BB-W 5.6KW	**Phases** 3~	**Rated speed** 2895 1/min	**Rated power** 5.6 kW
Approval No	**Number of poles** 2	**Rated current** 11 A	**Stator variant** 1
Frequency 50 Hz	**Rated voltage** 400 V	**Insulation class** H	**Type of Duty** S1

Motor - Technical

Power factor - 1/1 Load 0.87	**Motor efficiency - 1/1 Load** 84.2 %	**Total moment of inertia** 0.0131 kg m²	**Starts per hour max.** 30
Power factor - 3/4 Load 0.81	**Motor efficiency - 3/4 Load** 85.1 %	**Starting current, direct starting** 78 A	
Power factor - 1/2 Load 0.69	**Motor efficiency - 1/2 Load** 84.1 %	**Starting current, star-delta** 26 A	

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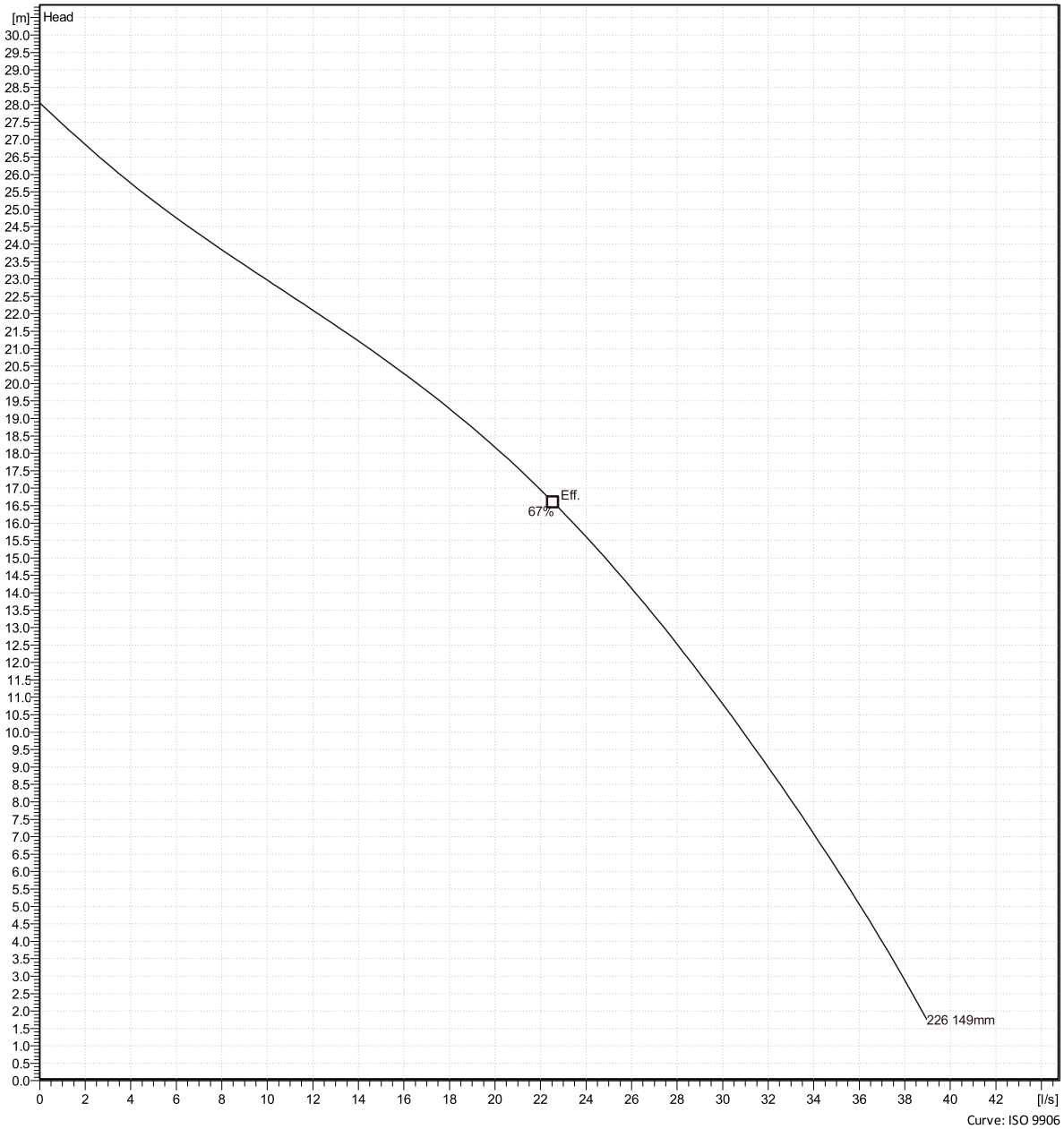
Performance curve

Duty point

Flow	Head

Curves according to: Water, pure [100%],4 °C,1 kg/dm³,1.569 mm²/s



Curve: ISO 9906

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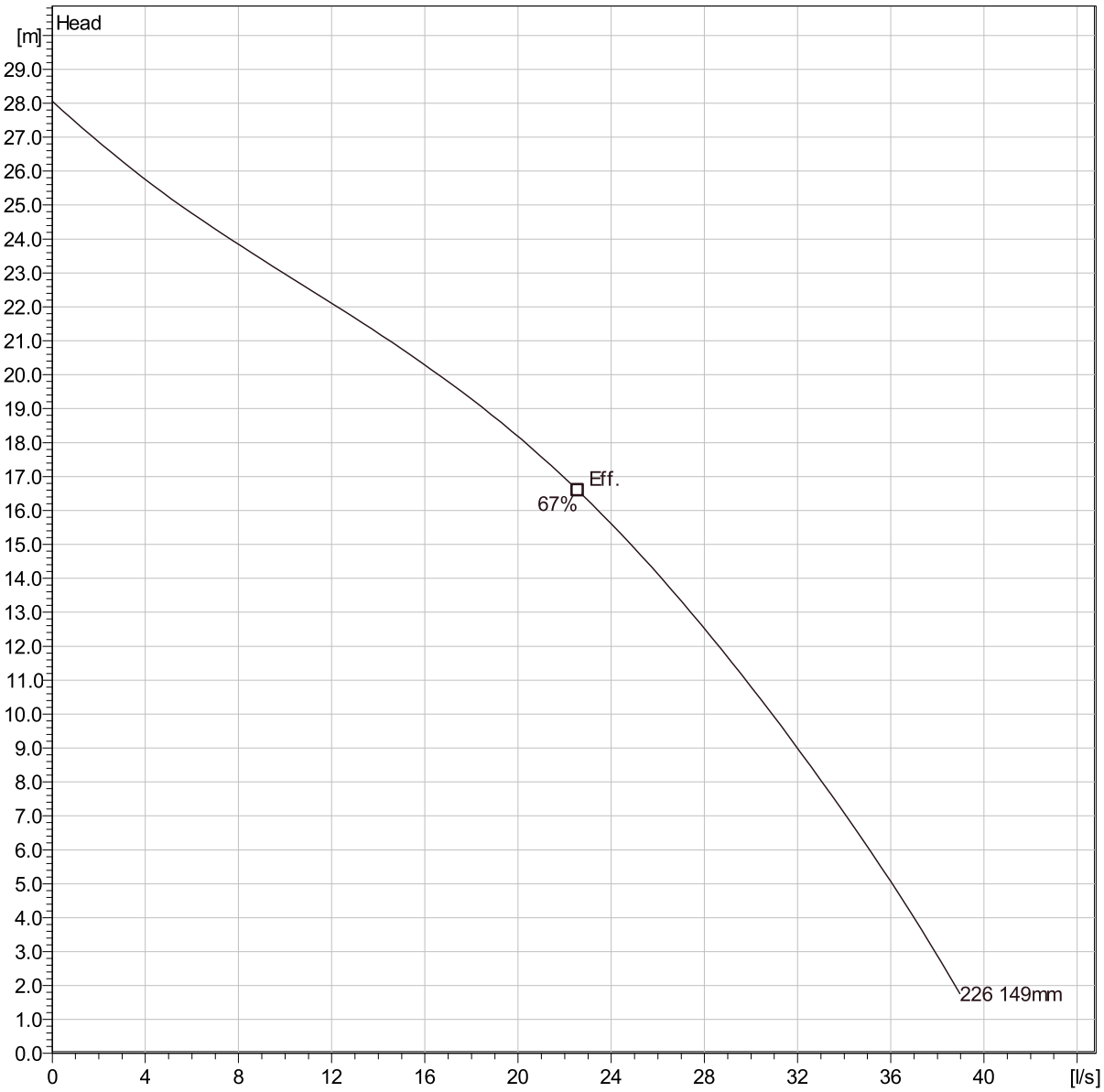
Duty Analysis

Curves according to: Water, pure [100%],4 °C,1 kg/dm³,1.569 mm²/s



Curve: ISO 9906

Operating characteristics

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

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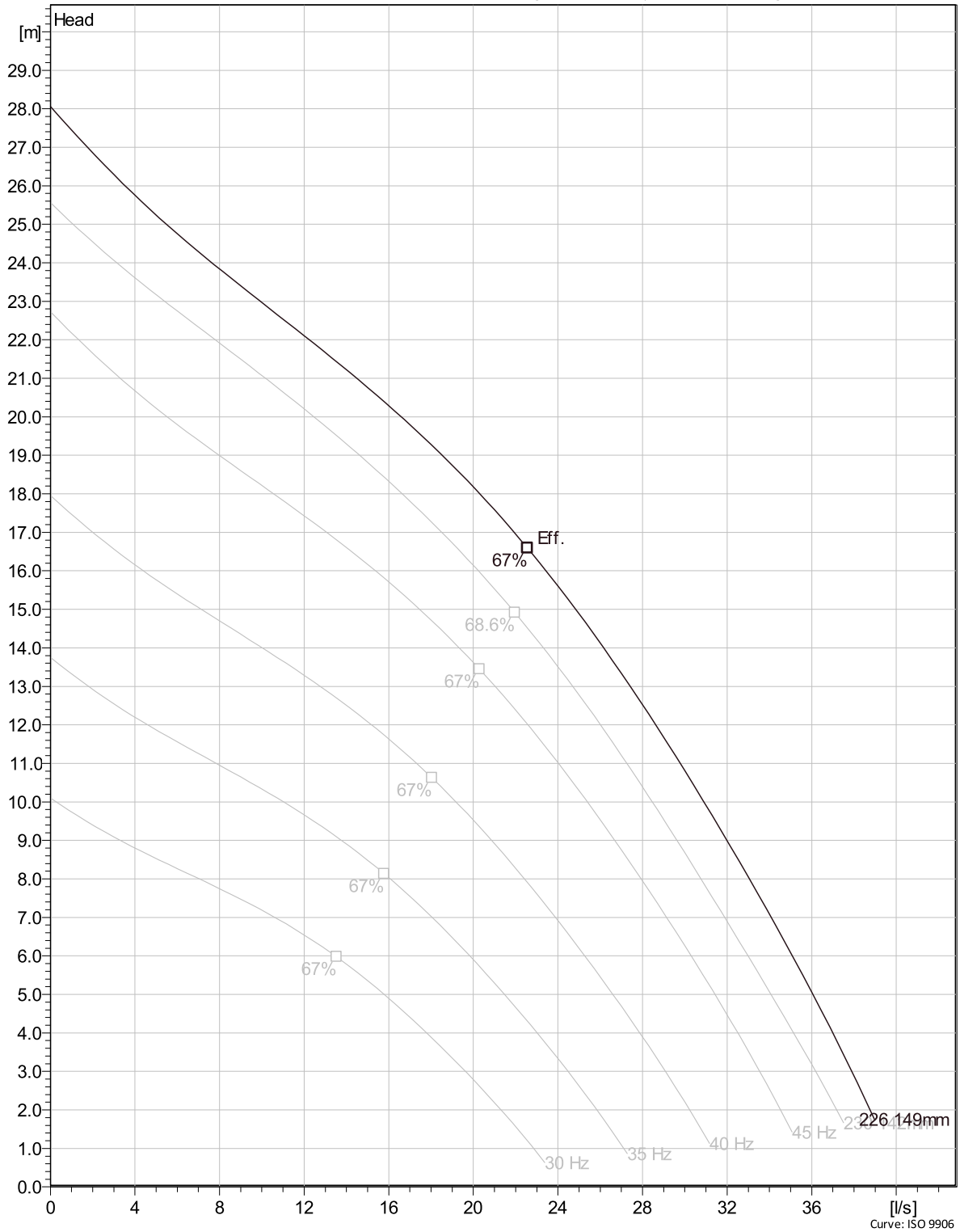
VFD Curve

Curves according to: Water, pure [100%],4 °C,1 kg/dm³,1.569 mm²/s



Curve: ISO 9906

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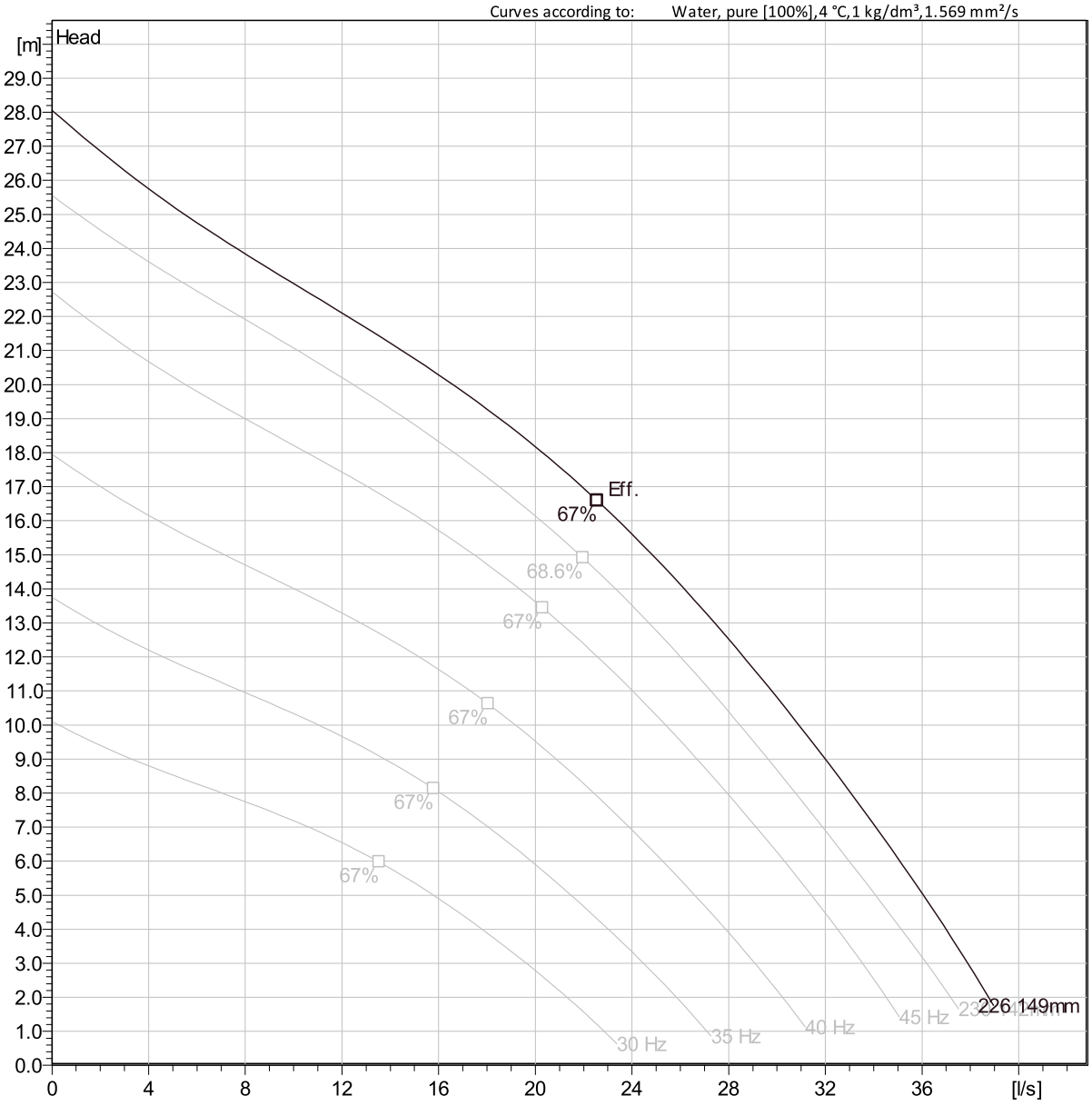
VFD Analysis

Curves according to: Water, pure [100%],4 °C,1 kg/dm³,1.569 mm²/s



Curve: ISO 9906

Operating Characteristics

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

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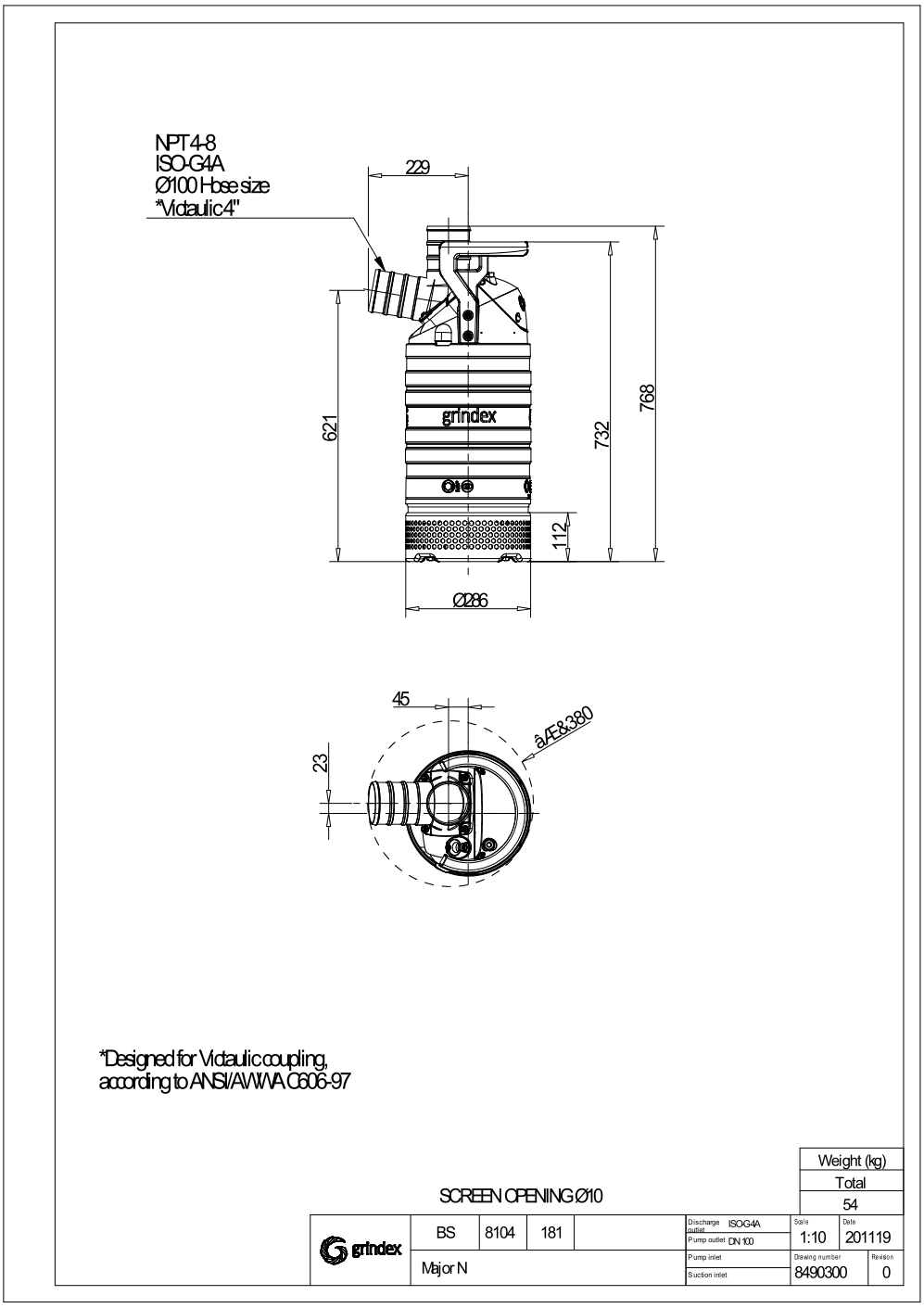
Dimensional drawing



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