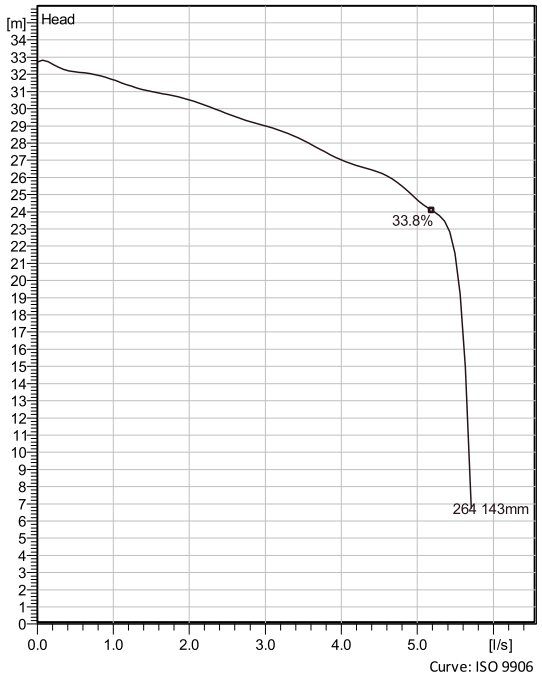
DS 3080 ST 3~ 264

Portable pumps with vortex impellers ideal for applications in which the water or liquid contains concentrations of abrasives when clogging problems can occur.

Technical specification

Curves according to: Water, pure Water, pure [100%],4 °C,999.9 kg/m³,1.5692 mm²/s



Curve: ISO 9906

Configuration

Motor number
D3080.311 17-11-2AA-W 5.5KW

Installation type
S - Portable Semi permanent, Wet

Impeller diameter
143 mm

Discharge diameter
50 mm

Pump information

Impeller diameter
143 mm

Discharge diameter
50 mm

Inlet diameter

Maximum operating speed
2760 rpm

Number of blades
12

Max. fluid temperature
40 °C

Materials

Impeller
Spring steel

Stator housing material
Grey cast iron

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Technical specification

Motor - General

Motor number D3080.311 17-11-2AA-W 5.5KW	**Phases** 3~	**Rated speed** 2760 rpm	**Rated power** 5.5 kW
Approval No	**Number of poles** 2	**Rated current** 12 A	**Stator variant** 44
Frequency 50 Hz	**Rated voltage** 400 V	**Insulation class** H	**Type of Duty** S1
Version code 311			

Motor - Technical

Power factor - 1/1 Load 0.92	**Motor efficiency - 1/1 Load** 75.5 %	**Total moment of inertia** 0.0097 kg m²	**Starts per hour max.** 15
Power factor - 3/4 Load 0.92	**Motor efficiency - 3/4 Load** 78.5 %	**Starting current, direct starting** 50 A	
Power factor - 1/2 Load 0.91	**Motor efficiency - 1/2 Load** 79.0 %	**Starting current, star-delta** 16.7 A	

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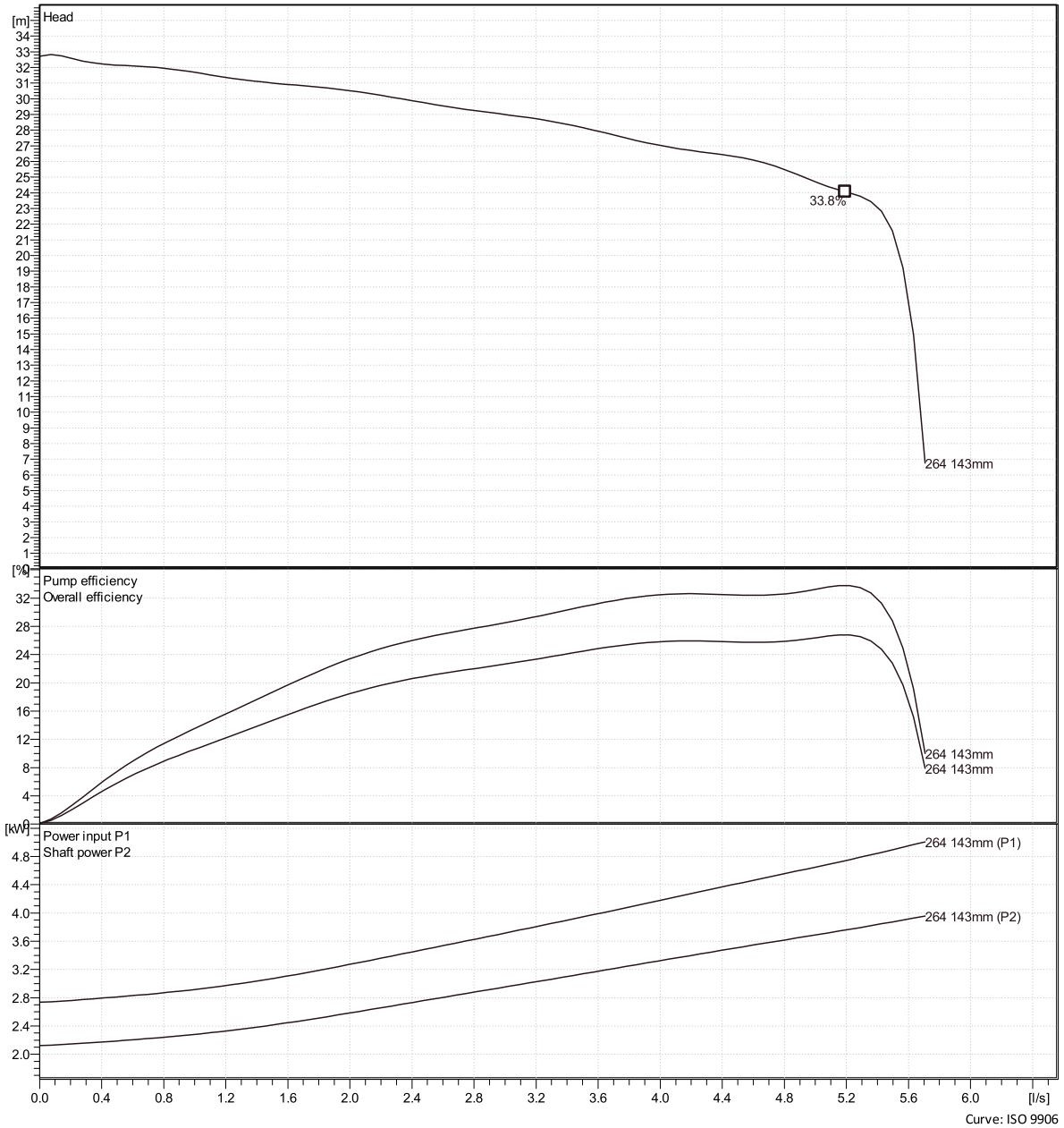
Performance curve

Duty point

Flow	Head

Curves according to: Water, pure Water, pure [100%],4 °C,999.9 kg/m³,1.5692 mm²/s



Curve: ISO 9906

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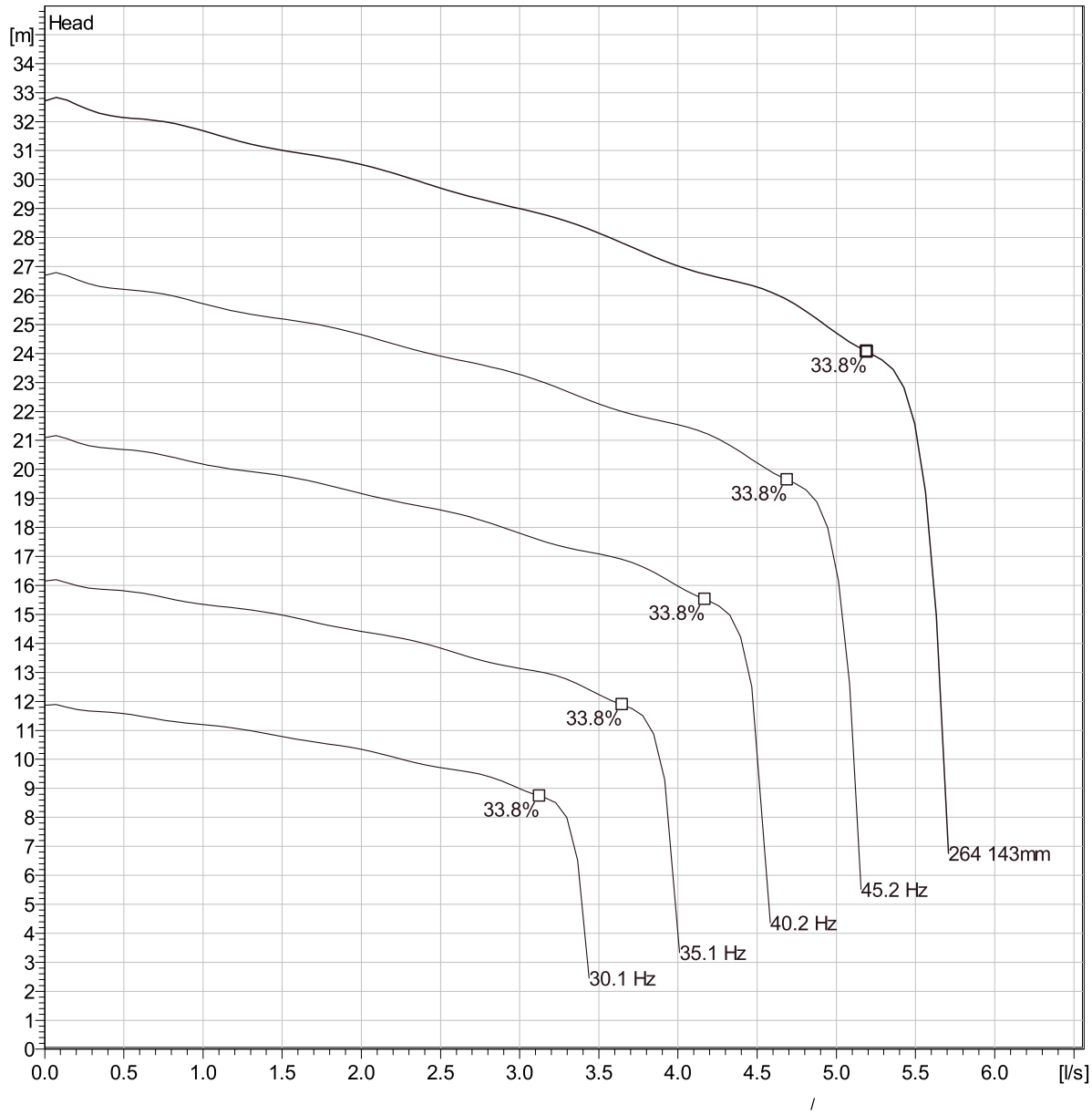
Duty Analysis

Curves according to: Water, pure [100%] ; 4°C; 999.9kg/m³; 1.5692mm²/s



Operating characteristics

Pumps / Systems	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Spec. Energy	NPSHre
	l/s	m	kW	l/s	m	kW		kWh/m³	m

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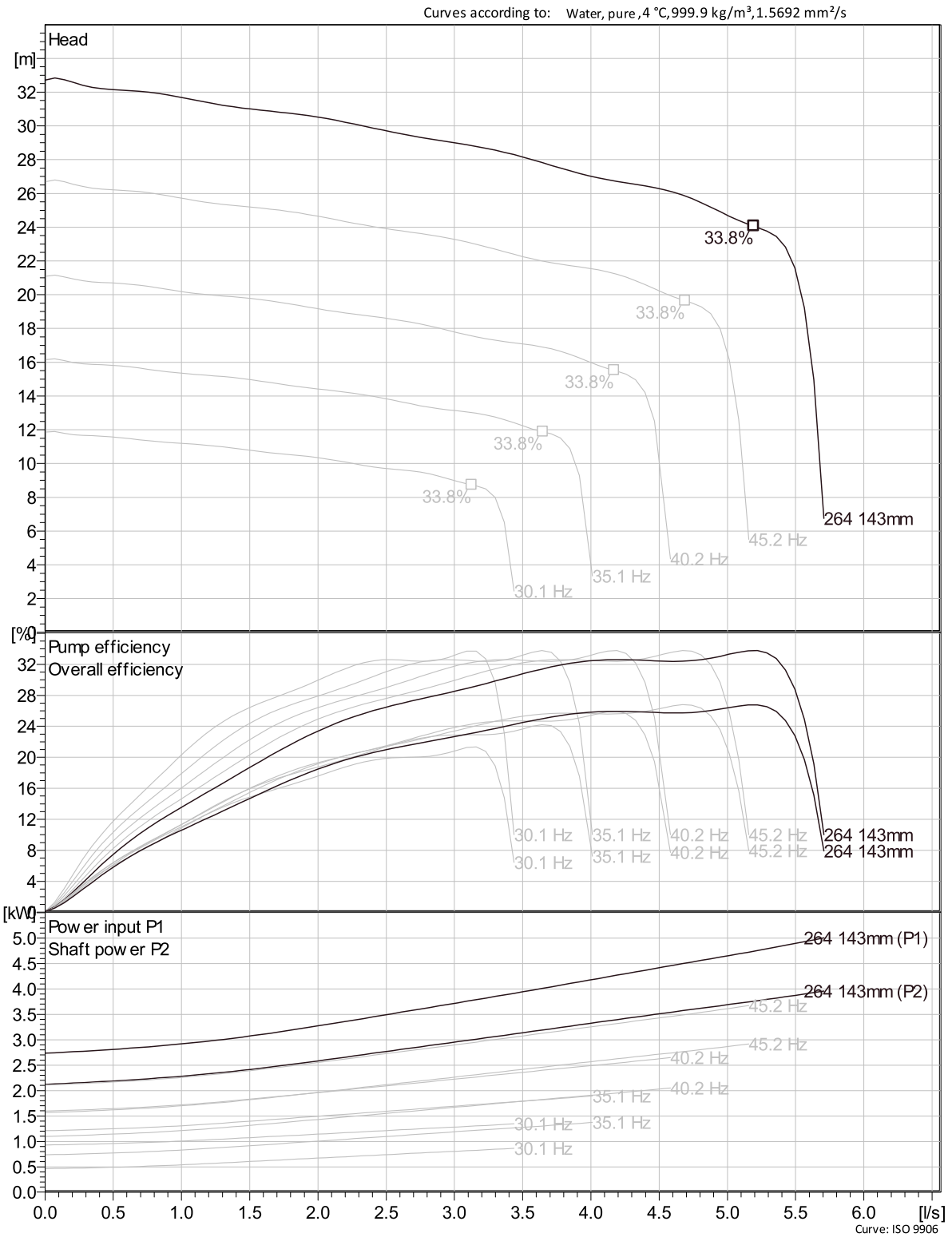
VFD Curve



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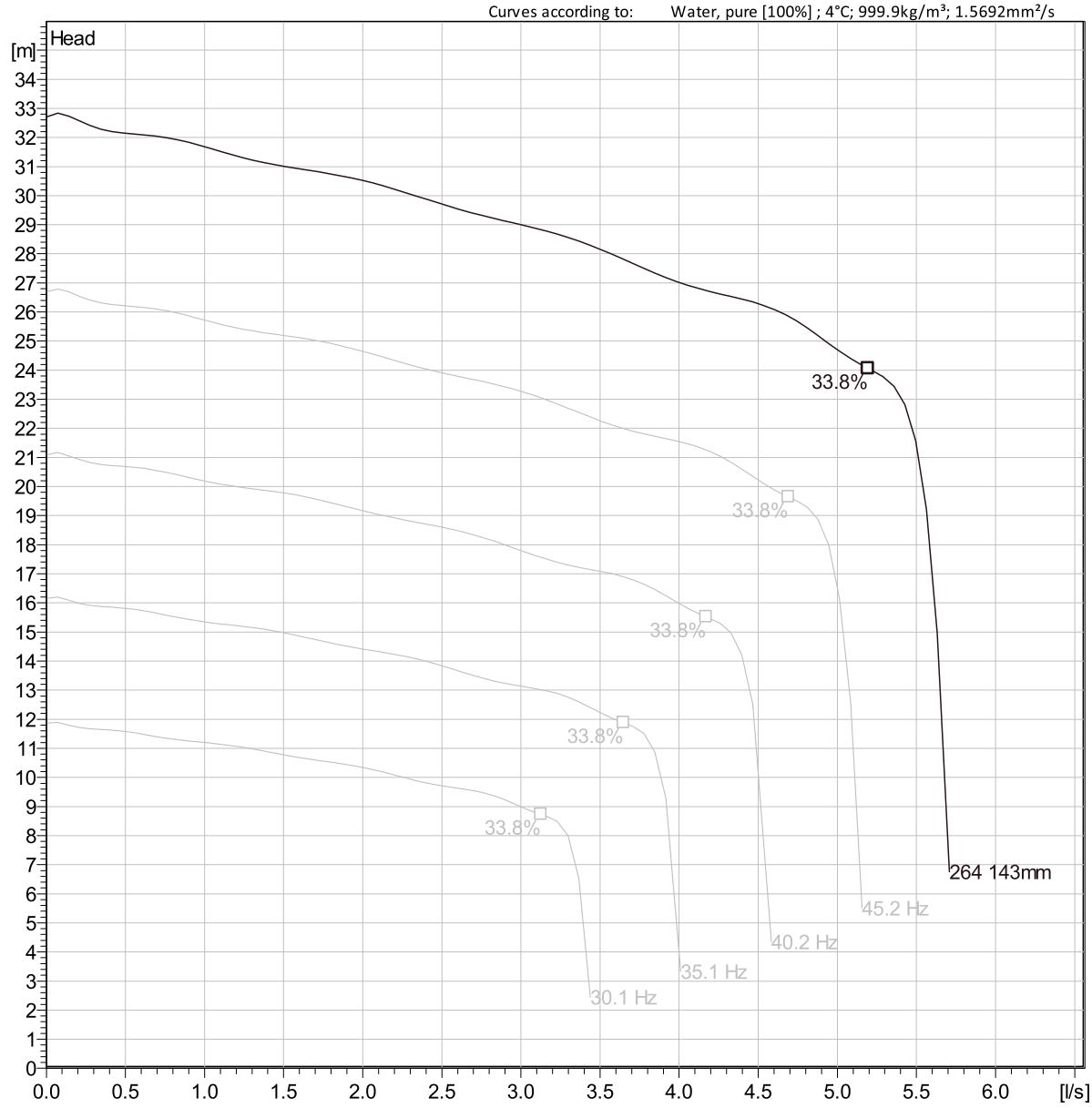
VFD Analysis

Curves according to: Water, pure [100%] ; 4°C; 999.9kg/m³; 1.5692mm²/s



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/m³	m

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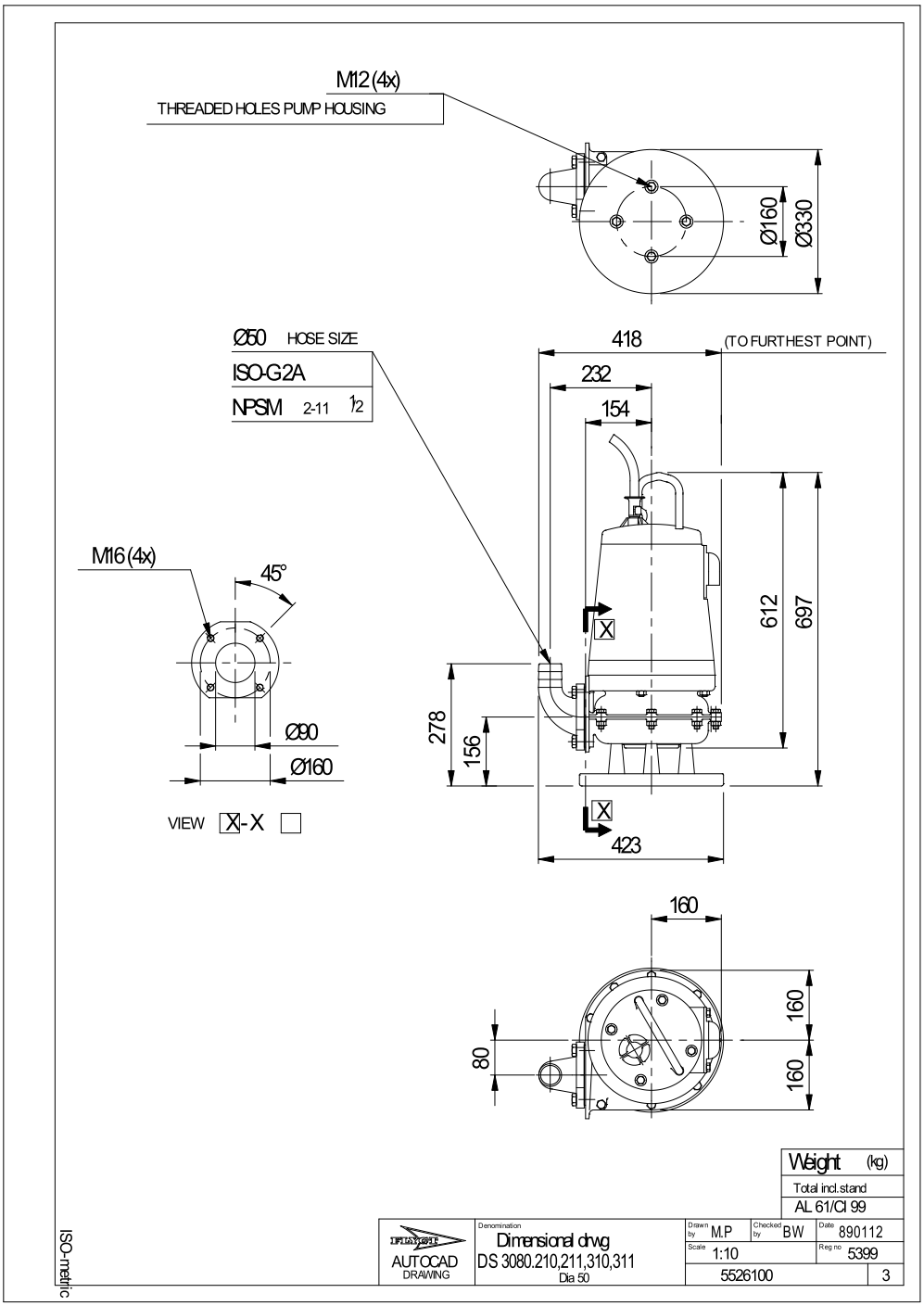
Dimensional drawing



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Block		**Created on**	1/14/2022 **Last update** 1/14/2022