



Position	Qty.	Description
	1	<p data-bbox="357 163 624 192">SLV.80.80.110.2.51D.C</p> <div data-bbox="363 297 730 517">  </div> <p data-bbox="748 595 1232 618" style="text-align: center;">Note! Product picture may differ from actual product</p> <p data-bbox="357 629 624 651">Product No.: 98624700</p> <p data-bbox="357 685 1430 739">Non-self-priming, single-stage, centrifugal pump designed for handling wastewater, process water and unscreened raw sewage.</p> <p data-bbox="357 745 1390 819">The pump is designed for intermittent and continuous operations in submerged installation. The efficient SuperVortex impeller provides passage of long fibres and solids up to 80 mm and is suitable for wastewater with a dry matter content of up to 5 %.</p> <p data-bbox="357 831 1458 904">A unique stainless-steel clamp assembling system enables quick and easy disassembly of the pump from the motor unit for service and inspection. No special tools are required. Pipework connection is via a DIN flange.</p> <p data-bbox="357 943 676 972">Further product details</p> <p data-bbox="357 981 876 1003">Typical application is transfer of liquid, such as:</p> <ul data-bbox="395 1010 1182 1126" style="list-style-type: none"> - large quantities of drainage and surface water - domestic wastewater with discharge from toilets - wastewater from commercial buildings without discharge from toilets - sludge-containing industrial wastewater. <p data-bbox="357 1160 1110 1182">The pump is ideal for pumping of the above liquids from for instance:</p> <ul data-bbox="395 1189 828 1305" style="list-style-type: none"> - municipal network pumping stations - public buildings - blocks of flats - factories/industry. <p data-bbox="357 1339 1430 1391">The pump is suitable for both temporary and permanent installation either as free-standing on ring stand or on an auto-coupling system.</p> <p data-bbox="357 1424 440 1453">Pump</p> <p data-bbox="357 1462 1230 1485">The pump housing, motor top and impeller are made of cast iron (EN-GJL-250).</p> <p data-bbox="357 1491 1445 1615">All surfaces of the cast iron parts are protected with cathodolysis coating. The surface of the cast iron pump parts is afterwards painted with environmental friendly powder coating (type NCS 9000N (black), gloss code 30, thickness 100 µm) which ensures high impact and corrosion protection. The final pump is assembled from already painted parts which ensures that no rust or scale can be formed in grooves between parts, etc.</p> <p data-bbox="357 1626 1445 1727">The SuperVortex impeller is a symmetrical multivane winglet impeller. The design ensures a flow entirely outside the impeller providing limited contact between the impeller and the pumped liquid. This ensures that long fibres, rags and more passes freely through the pump without getting caught and without causing clogging or jamming.</p> <div data-bbox="371 1753 667 1939">  </div>

The shaft seal consists of two mechanical seals that ensure a reliable sealing between the pumped liquid and motor. The shaft seals are incorporated in a single-unit cartridge shaft seal system that is easy to replace in the field without use of special tools.

The combination of the primary and secondary seals in a cartridge shaft seal system results in a shorter assembly length compared to conventional shaft seals.

- Primary seal: Silicon carbide/silicon carbide (SiC/SiC)
- Secondary seal: Carbon/Ceramics

The shaft seal is bidirectional, meaning it operates correctly in case of backflow through the pump.



The pump is approved according to CE, EN12050-1.

Motor

The motor is a watertight, totally encapsulated motor supplied with a 10 m power cable. The stainless steel plug is fastened with a union nut. This nut and the O-rings provide sealing against ingress of the liquid.

The plug is polyurethane-embedded, ensuring a watertight and durable seal around the leads of the cable. This prevents the ingress of water into the motor through the cable in case of cable breakage or adverse handling in connection with installation or service.

A compact motor construction with a short shaft reduces vibrations, resulting in an increased efficiency and lifetime of the shaft seal and ball bearings.

The motor features built-in thermal protection to protect the motor against overheating and ensure the reliability.

The pump is equipped with the following sensor(s):

- A digital moisture switch that is fitted in the motor chamber monitors whether water enters the motor chamber. If moisture is detected in the motor chamber, the switch will trip and send a warning to the sensor module.

The pump is designed for speed-controlled operation to keep the energy consumption at a minimum. To avoid the risk of sedimentation in the pipes, we recommend that you operate the speed-controlled pump within a speed range of 30 % to 100 % and at a flow rate above 1 m/s.

Controls:

Moisture sensor: with moisture sensors
Water-in-oil sensor: without water-in-oil sensor

Liquid:

Pumped liquid: Water
Maximum liquid temperature: 40 °C
Liquid temp: 20 °C
Density: 998.2 kg/m³
Kinematic viscosity: 1 mm²/s

Technical:

Type of impeller: SUPER VORTEX
Maximum particle size: 80 mm
Primary shaft seal: SIC/SIC
Secondary shaft seal: CARBON/CERAMICS
Approvals on nameplate: CE, EN12050-1
Curve tolerance: ISO9906:2012 3B

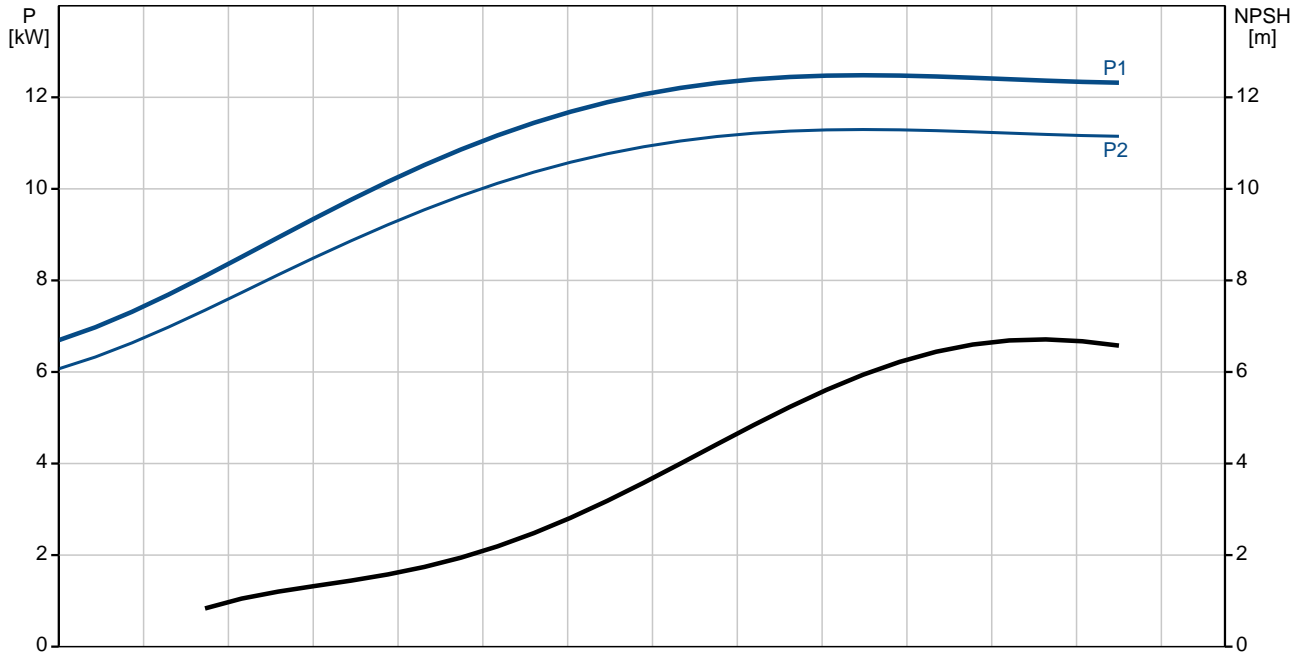
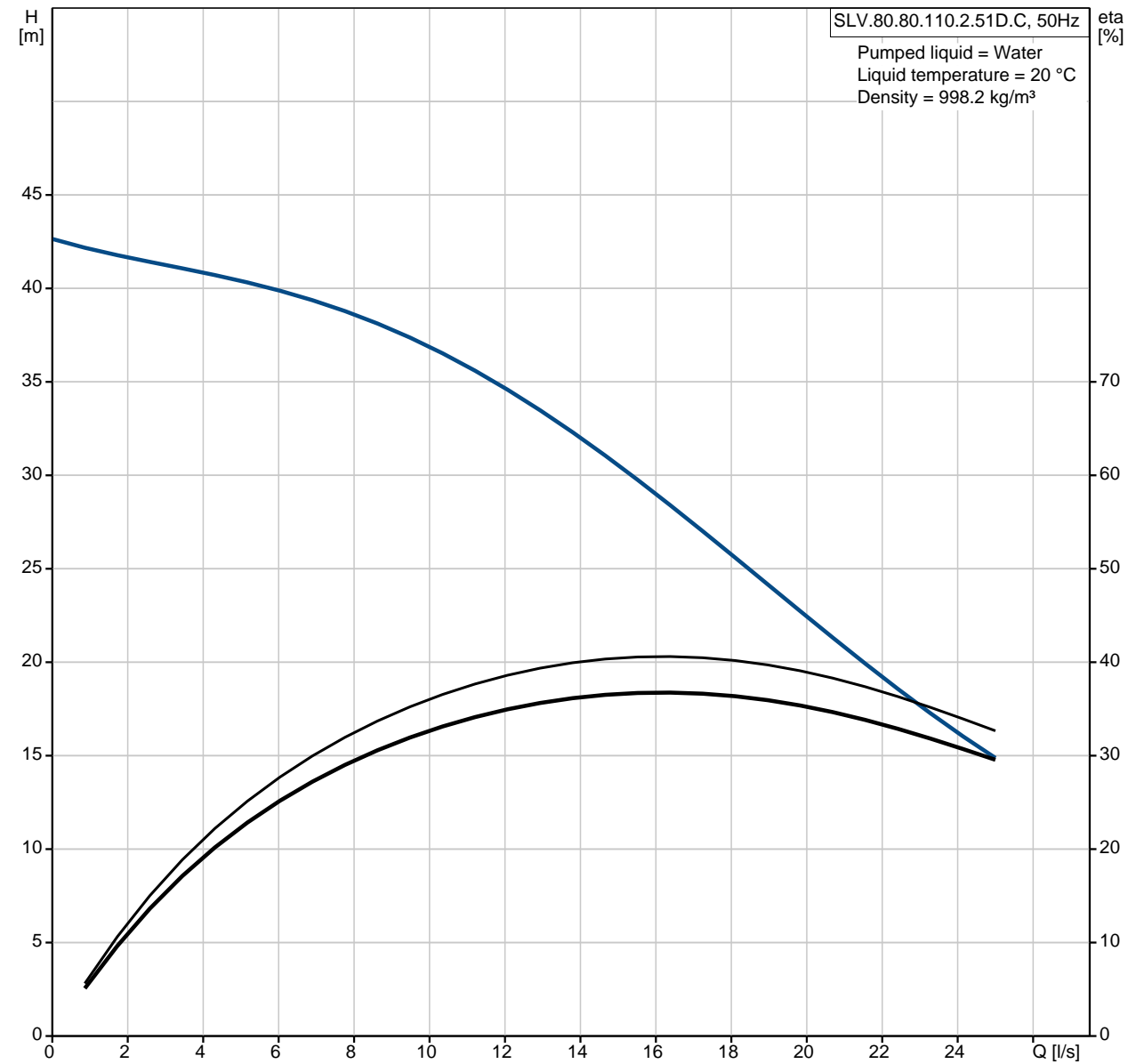
Materials:

Pump housing: Cast iron (EN-GJL-250)
EN-GJL-250
Impeller: Cast iron (EN-GJL-250)
EN-GJL-250
Motor: Cast iron (EN-GJL-250)
EN-GJL-250

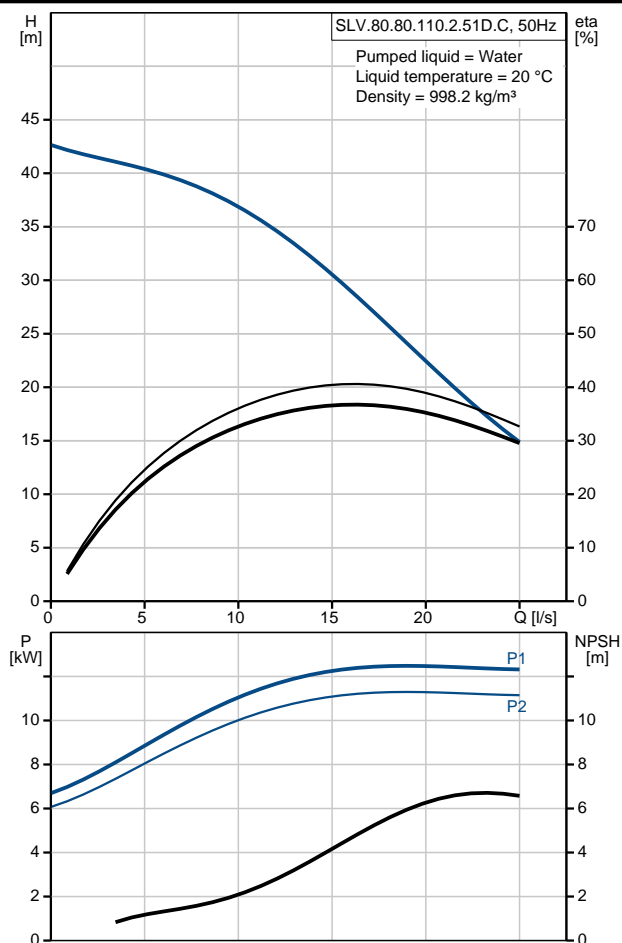
Installation:

Position	Qty.	Description
		Maximum ambient temperature: 40 °C Flange standard: DIN Pump inlet: 80 Pump outlet: 80 Pressure stage: PN 10 Maximum installation depth: 20 m Frame range: D Electrical data: Number of poles: 2 Power input - P1: 12.5 kW Rated power - P2: 11 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Voltage tolerance: +10/-10 % Start. method: star/delta Max starts per. hour: 20 Rated current: 22.2-21.1 A Starting current: 160 A Cos phi - power factor: 0.84 Cos phi - p.f. at 3/4 load: 0.80 Cos phi - p.f. at 1/2 load: 0.70 Rated speed: 2947 rpm Motor efficiency at full load: 90.5 % 90.5 % Motor efficiency at 3/4 load: 90.9 % 90.9 % Motor efficiency at 1/2 load: 90.6 % 90.6 % Enclosure class (IEC 34-5):: IP68 Insulation class (IEC 85): H Explosion proof: no Length of cable: 10 m Cable type: LYNIFLEX Others: Net weight: 177 kg

98624700 SLV.80.80.110.2.51D.C 50 Hz

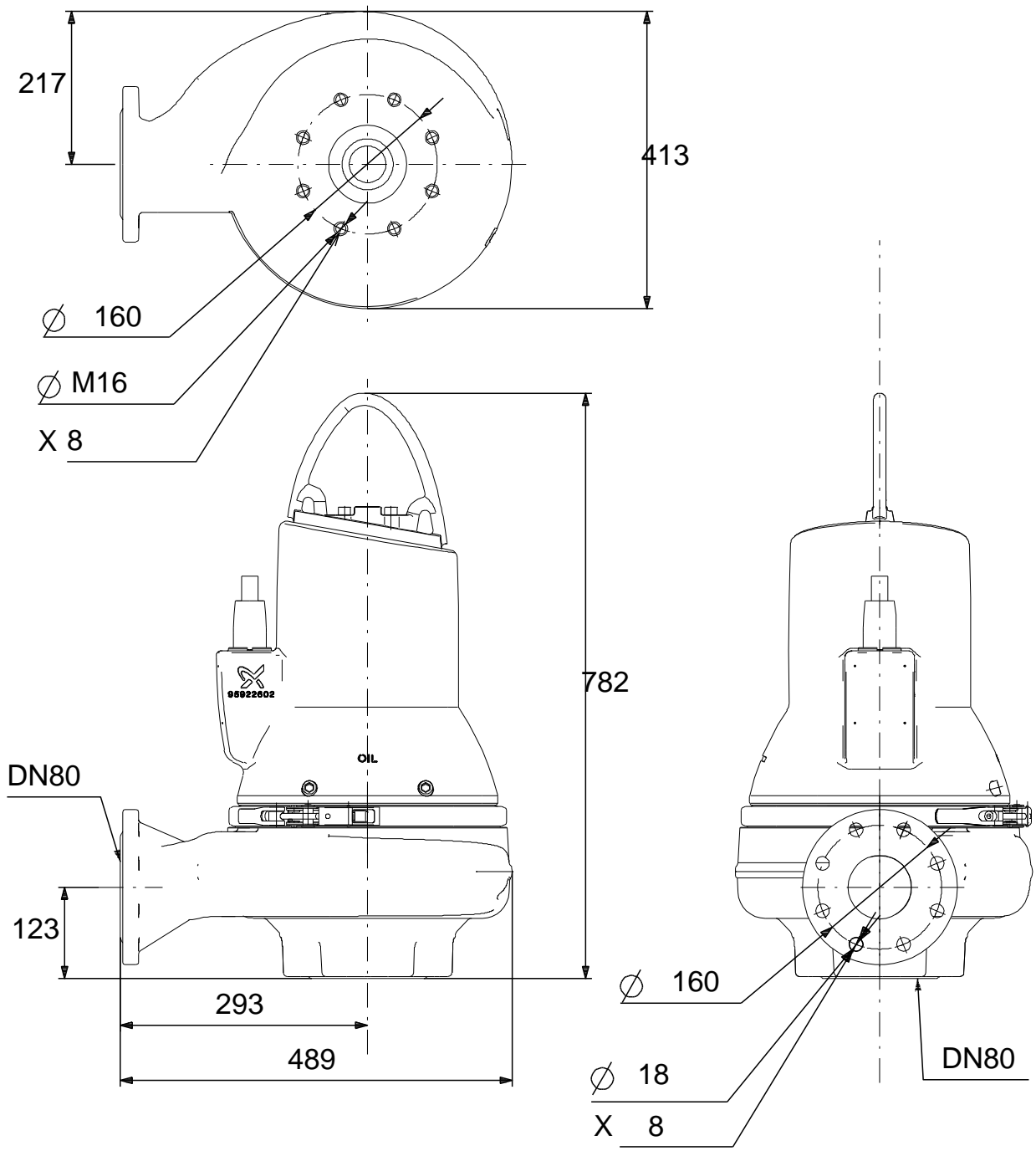


Description	Value
General information:	
Product name:	SLV.80.80.110.2.51D.C
Position:	
Product No:	98624700
EAN number:	5711498435476
Price:	On request
Technical:	
Max flow:	25 l/s
Head max:	43.6 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	80 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Approvals on nameplate:	CE, EN12050-1
Curve tolerance:	ISO9906:2012 3B
Materials:	
Pump housing:	Cast iron (EN-GJL-250)
	EN-GJL-250
Impeller:	Cast iron (EN-GJL-250)
	EN-GJL-250
Motor:	Cast iron (EN-GJL-250)
	EN-GJL-250
Installation:	
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pump inlet:	80
Pump outlet:	80
Pressure stage:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	SUBMERGED
Installation:	VERTICAL
Frame range:	D
Liquid:	
Maximum liquid temperature:	40 °C
Kinematic viscosity:	1 mm ² /s
Electrical data:	
Number of poles:	2
Power input - P1:	12.5 kW
Rated power - P2:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+10/-10 %
Start. method:	star/delta
Max starts per. hour:	20
Rated current:	22.2-21.1 A
Starting current:	160 A
Cos phi - power factor:	0.84
Cos phi - p.f. at 3/4 load:	0.80
Cos phi - p.f. at 1/2 load:	0.70
Rated speed:	2947 rpm
Motor efficiency at full load:	90.5 %
	90.5 %
Motor efficiency at 3/4 load:	90.9 %
	90.9 %
Motor efficiency at 1/2 load:	90.6 %
	90.6 %
Enclosure class (IEC 34-5)::	IP68
Insulation class (IEC 85):	H
Explosion proof:	no
Motor protec:	THERMAL SWITCH
Length of cable:	10 m
Cable type:	LYNIFLEX
Controls:	
Additional I/O:	N



Description	Value
Moisture sensor:	with moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
Others:	
Net weight:	177 kg

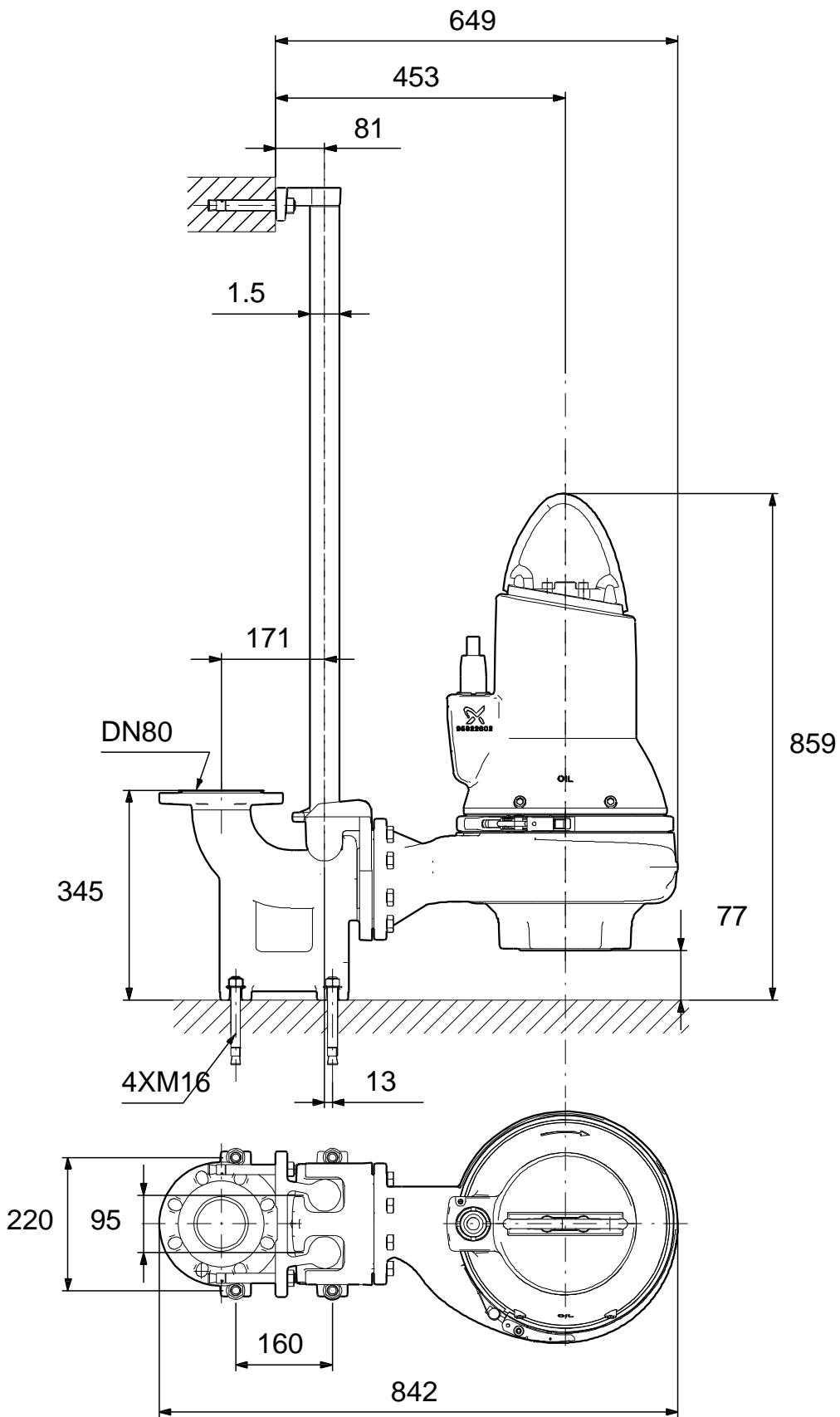
98624700 SLV.80.80.110.2.51D.C 50 Hz



160x160

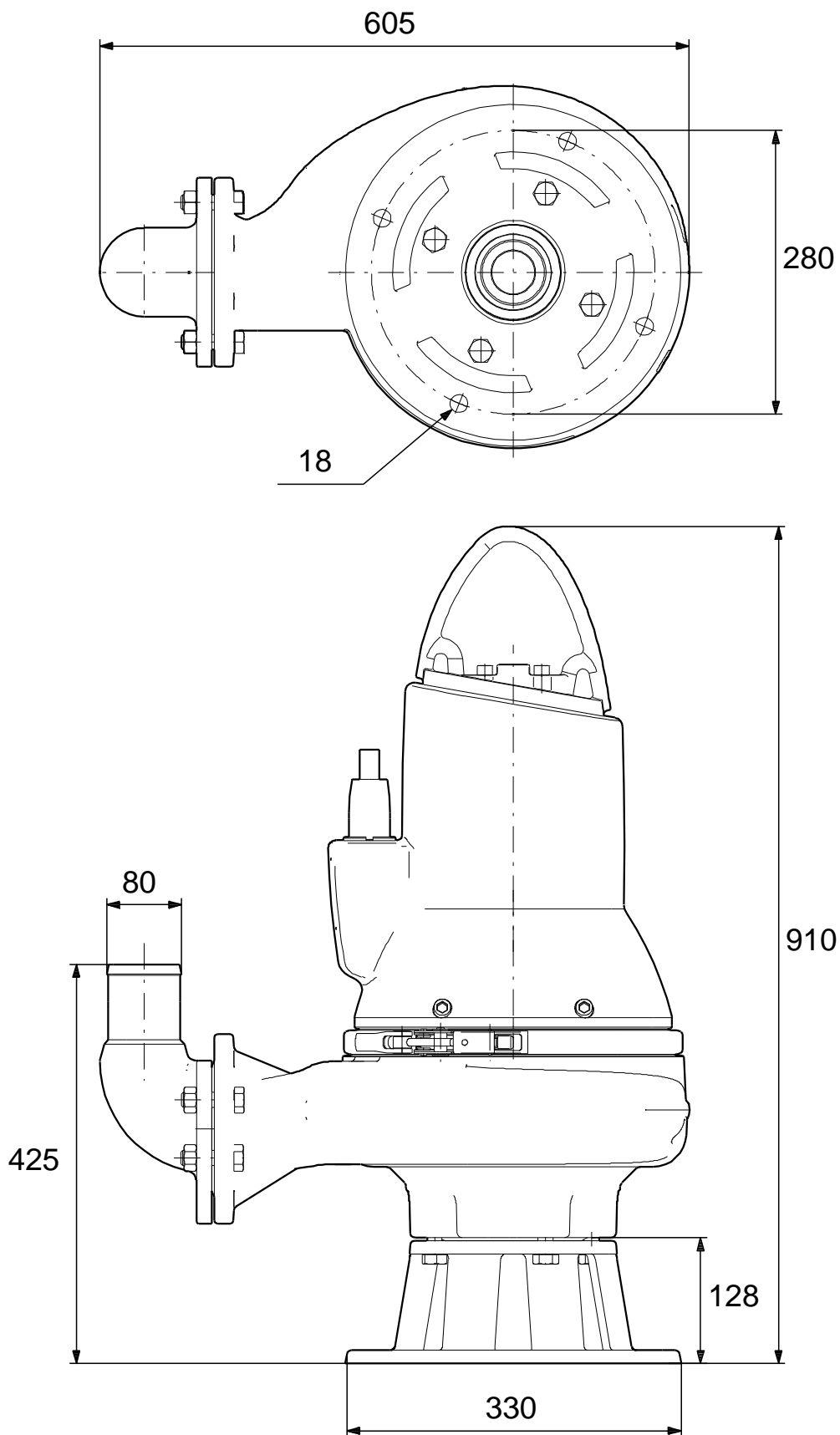
Note! All units are in [mm] unless others are stated.
 Disclaimer: This simplified dimensional drawing does not show all details.

98624700 SLV.80.80.110.2.51D.C 50 Hz



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