


**Project:** Umzimkulu River Abstraction  
**Reference Number:** Submersible Dewatering Type Pumps

**Client:** Gibb  
**Client Number:**  
**Contact:** Shayden Bechan

Qty.	Description
1	<p><b>DWK.E.10.200.550.5.1E.R</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: <a href="#">96926000</a></p> <p>Submersible Contractor Pump</p> <p>Grundfos DWK pump is a submersible pump for dewatering and drainage applications.</p> <p>The pump is suitable for pumping</p> <ul style="list-style-type: none"> <li>·water with dirt from drainage pits</li> <li>·water with sand from construction sites, excavation sites and tunnels</li> </ul> <p>The pump design makes it suitable for both temporary and permanent installation.</p> <p>The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).</p> <p>The pump has a rise pipe, a cooling jacket for continuous cooling of the motor by the pumped liquid and a high chrome stainless steel enclosed impeller to ensure high efficiency and maintained performance.</p> <p>The pump is equipped with a double mechanical seal and an additional lip seal that prevents the shaft and the mechanical seal from abrasives.</p> <p>The pump is equipped with a temperature bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing.</p> <p>The pump is fitted with suction strainer and 10 m cable.</p> <p>The cable sealing consist of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration in to the motor.</p> <p>The pump is equipped with a hose coupling discharge.</p> <p>Controls:</p> <p>Seal sensor: N</p> <p>Liquid:</p> <p>Pumped liquid: Any Newtonian liquid</p> <p>Liquid temperature range: 0 .. 40 °C</p>



**Company name:** A.P.I. Pumps KZN (Pty) Ltd  
**Created by:** Peter Drake  
**Phone:** 0832296985  
**Email:** peter@apipumps.co.za  
**Date:** 2021/02/23

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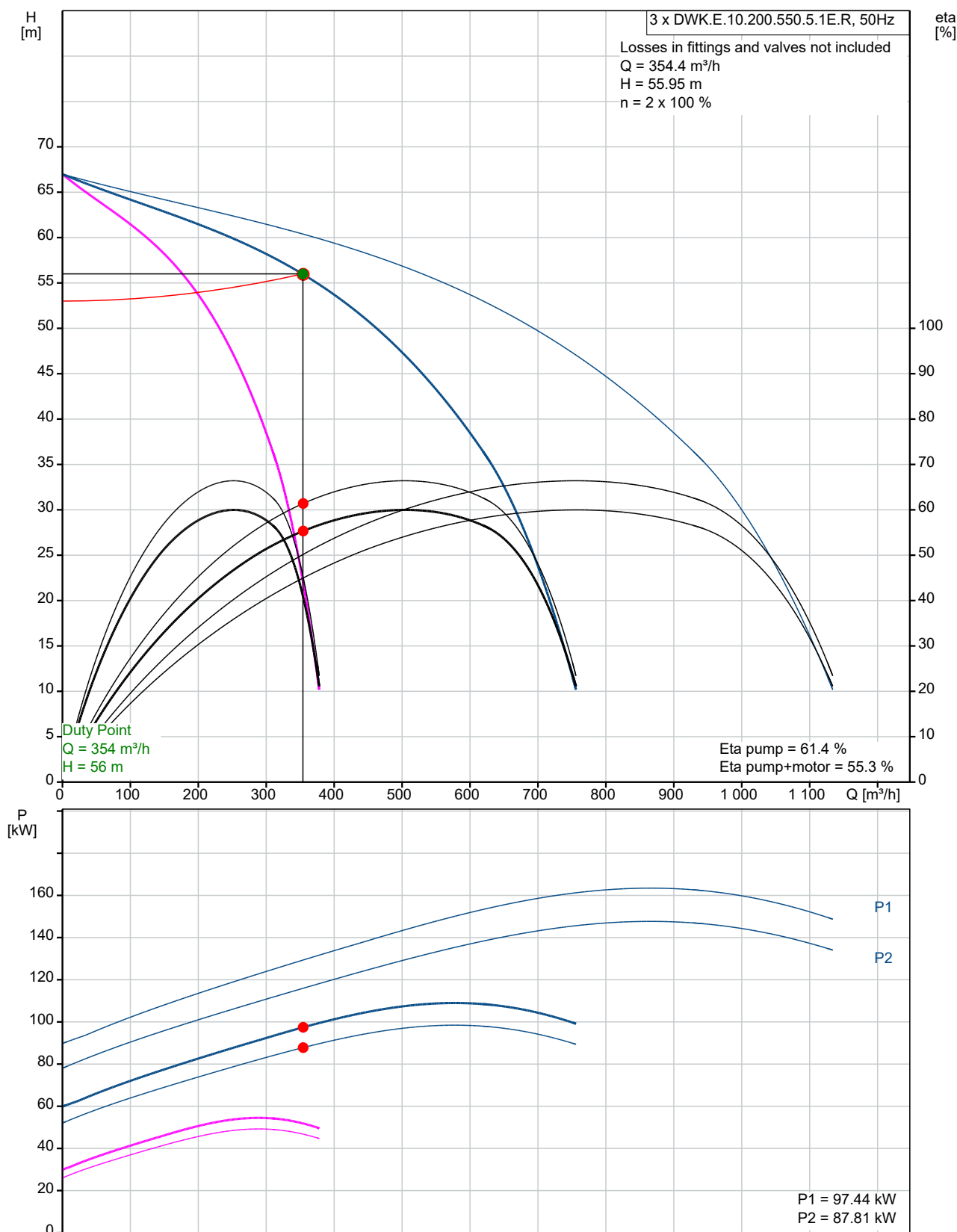
Qty.	Description
	Density: 998.2 kg/m <sup>3</sup>
	Technical:
	Actual calculated flow: 354.4 m <sup>3</sup> /h
	Resulting head of the pump: 55.95 m
	Actual impeller diameter: 243 mm
	Type of impeller: E
	Maximum particle size: 10 mm
	Primary shaft seal: SIC-SIC
	Secondary shaft seal: CERAMIC-CARBON
	Max. hydraulic efficiency: 66 %
	Curve tolerance: ISO9906:2012 3B
	Materials:
	Pump housing: Cast iron EN 1561 EN-GJL-200
	Impeller: High-chrome stainless steel DIN W.-Nr. HI-CR
	Motor: Cast iron EN 1561 EN-GJL-250
	Installation:
	Maximum ambient temperature: 40 °C
	Pump outlet: DN 200
	Maximum installation depth: 25 m
	Electrical data:
	Rated power - P2: 55 kW
	Phase: 3
	Voltage tolerance: +5/-5 %
	Max starts per. hour: 15
	Rated current: 184 A
	Rated current at 3/4 load: 144 A
	Rated current at 1/2 load: 108 A
	Maximum current consumption: 184 A
	Cos phi - power factor: 0.865
	Cos phi - p.f. at 3/4 load: 0.833
	Cos phi - p.f. at 1/2 load: 0.756
	Rated speed: 2850 rpm
	Motor efficiency at full load: 90.6 %
	Motor efficiency at 3/4 load: 90 %
	Motor efficiency at 1/2 load: 88.1 %
	Number of poles: 2
	Start. method: star/delta
	Enclosure class (IEC 34-5): IP68
	Insulation class (IEC 85): F
	Explosion proof: no
	Length of cable: 10 m
	Cable type: PNCT
	Others:
	Net weight: 911 kg

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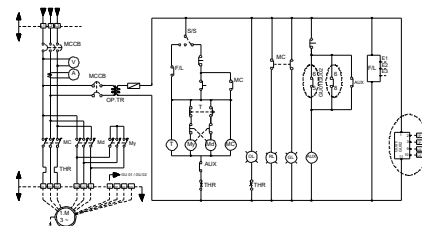
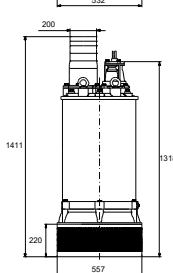
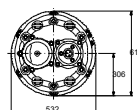
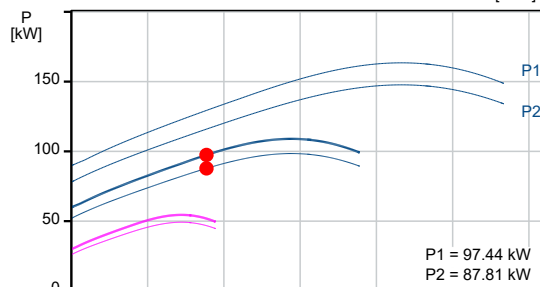
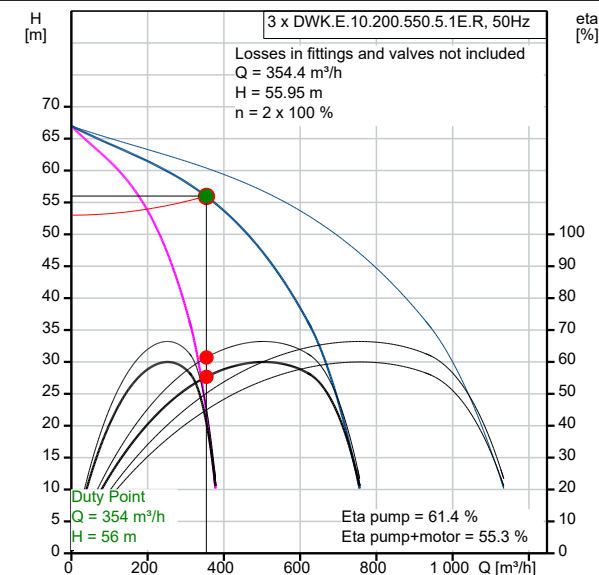
**96926000 DWK.E.10.200.550.5.1E.R 50 Hz**



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Description	Value
<b>General information:</b>	
Product name:	DWK.E.10.200.550.5.1E.R
Product No:	96926000
EAN number:	5700313814480
Price:	
<b>Technical:</b>	
Actual calculated flow:	354.4 m³/h
Maximum flow:	378 m³/h
Max flow:	378 m³/h
Resulting head of the pump:	55.95 m
Head min:	7 m
Head max:	67 m
Actual impeller diameter:	243 mm
Type of impeller:	E
Maximum particle size:	10 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	CERAMIC-CARBON
Max. hydraulic efficiency:	66 %
Curve tolerance:	ISO9906:2012 3B
<b>Materials:</b>	
Pump housing:	Cast iron
Pump housing:	EN 1561 EN-GJL-200
Impeller:	High-chrome stainless steel
Impeller:	DIN W.-Nr. HI-CR
Motor:	Cast iron
Motor:	EN 1561 EN-GJL-250
<b>Installation:</b>	
Maximum ambient temperature:	40 °C
Pump outlet:	DN 200
Maximum installation depth:	25 m
<b>Liquid:</b>	
Pumped liquid:	Any Newtonian liquid
Liquid temperature range:	0 .. 40 °C
Density:	998.2 kg/m³
Min. pH-value:	4
<b>Electrical data:</b>	
Rated power - P2:	55 kW
Phase:	3
Voltage tolerance:	+5/-5 %
Max starts per. hour:	15
Rated current:	184 A
Rated current at 3/4 load:	144 A
Rated current at 1/2 load:	108 A
Maximum current consumption:	184 A
Cos phi - power factor:	0.865
Cos phi - p.f. at 3/4 load:	0.833
Cos phi - p.f. at 1/2 load:	0.756
Rated speed:	2850 rpm
Motor efficiency at full load:	90.6 %
Motor efficiency at 3/4 load:	90 %
Motor efficiency at 1/2 load:	88.1 %
Number of poles:	2
Start. method:	star/delta
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F





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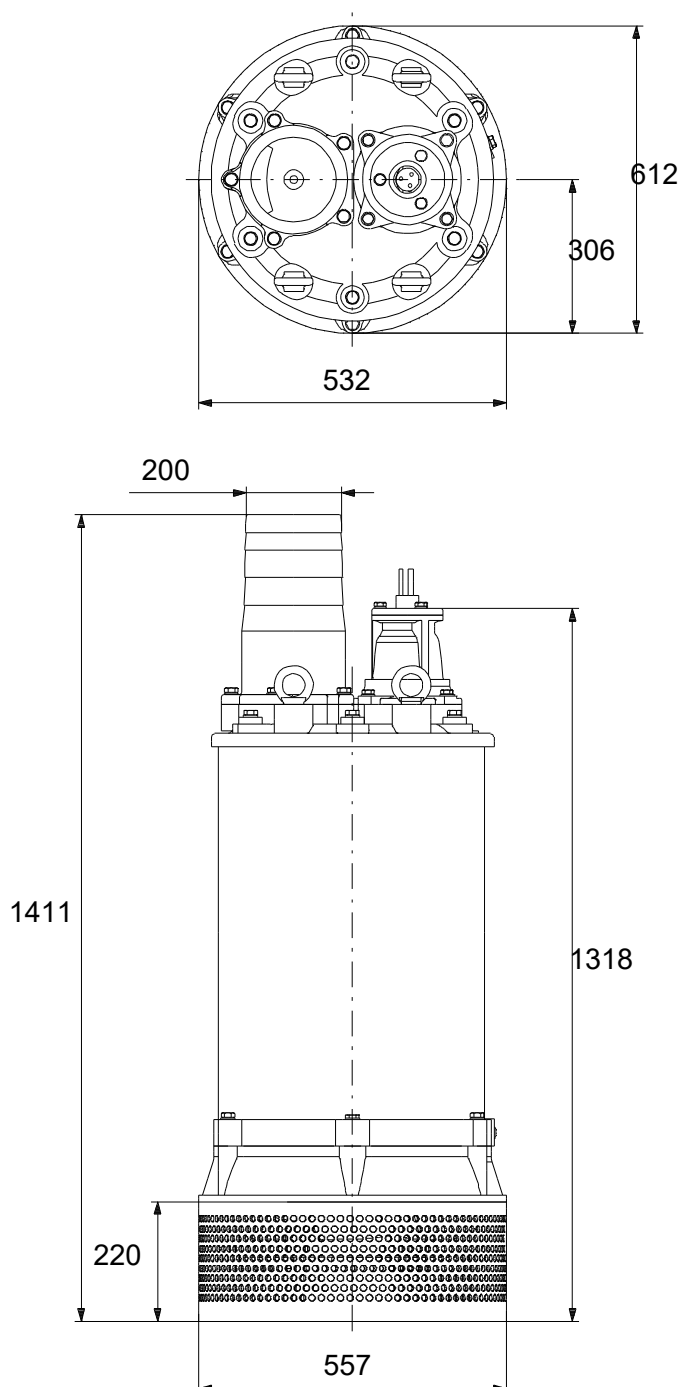
**Client:** Gibb  
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Description	Value
Explosion proof:	no
Length of cable:	10 m
Cable type:	PNCT
Cable size:	6X35MM2+1X25MM2+6X1.5MM2
<b>Controls:</b>	
Seal sensor:	N
Sensor type:	Y
<b>Others:</b>	
Net weight:	911 kg

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## 96926000 DWK.E.10.200.550.5.1E.R 50 Hz



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