

SPECIFICATIONS	Model	80PU21.5	
		PU-series 1.5kW, 3-phase	

<p>Type of Pump Submersible vortex pump made of 304 stainless steel and resin suitable for pumping sewage, wastewater, storm water, etc.</p> <p>Type of Fluid Sewage, wastewater, and water carrying solid matters</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore 80mm</p> <p>Motor Output 1.5kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Direct on Line</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: E Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 4.1A</td> <td>220V – 6.6A</td> </tr> <tr> <td>400V – 4.0A</td> <td>380V – 3.9A</td> </tr> <tr> <td>415V – 4.0A</td> <td>440V – 3.6A</td> </tr> </table> <p>Power Cable Sheath: PVC Standard Length: 6m 200 to 600V supply: 1 × 4 × 1.25mm², O.D. 11.1mm</p> <p>Dry Weight (excluding cable) Standard Model: 16kg Auto & Auto-Alternation Model: 16.9kg</p>	50Hz	60Hz	380V – 4.1A	220V – 6.6A	400V – 4.0A	380V – 3.9A	415V – 4.0A	440V – 3.6A	<p>Impeller Vortex impeller made of glass-fiber reinforced PPO</p> <p>Solids Passage 50Hz – φ46mm 60Hz – φ46mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearings Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 304 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Faces: Ceramic + Carbon Lower Seal Faces: SiC + SiC</p> <p>OIL LIFTER (Patented) Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Liquid Paraffin (ISO VG32), 500ml</p> <p>Motor Protection Device A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.</p>
50Hz	60Hz								
380V – 4.1A	220V – 6.6A								
400V – 4.0A	380V – 3.9A								
415V – 4.0A	440V – 3.6A								

Optional Accessories

TOK Set (Guide Rail Fitting Type)

- Duckfoot Bend
- Guide Support
- Guide Hook
- Lifting Chain 5m (with Shackles)

NO. A-18338-1

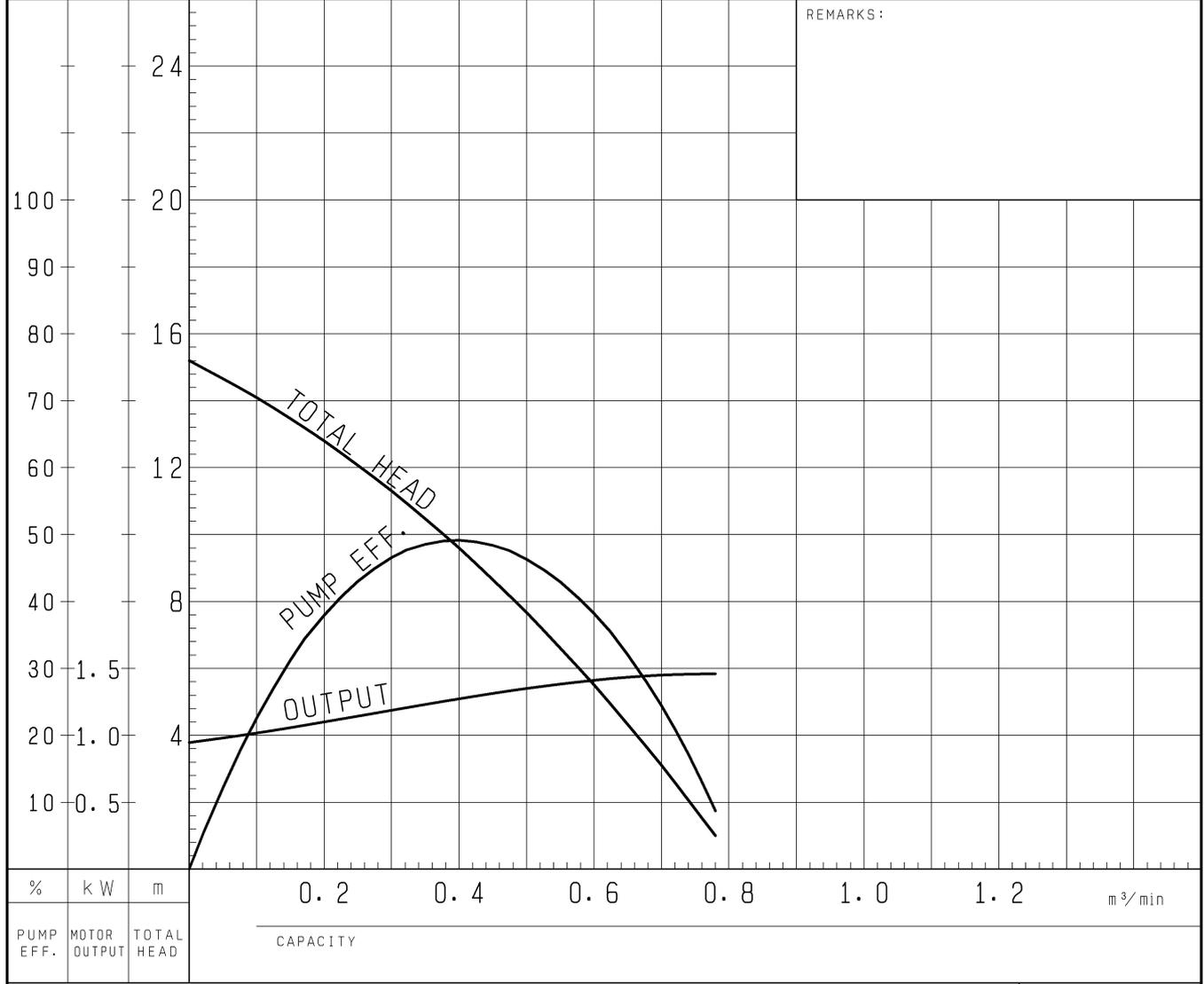
PUMP PERFORMANCE CURVES

TYPE Sewage Submersible Vortex Pump	MODEL 80PU (A/W) 21.5 -52	FREQUENCY 50 Hz
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CUSTOMER'S NAME _____

EQUIPMENT TITLE _____ NO. _____

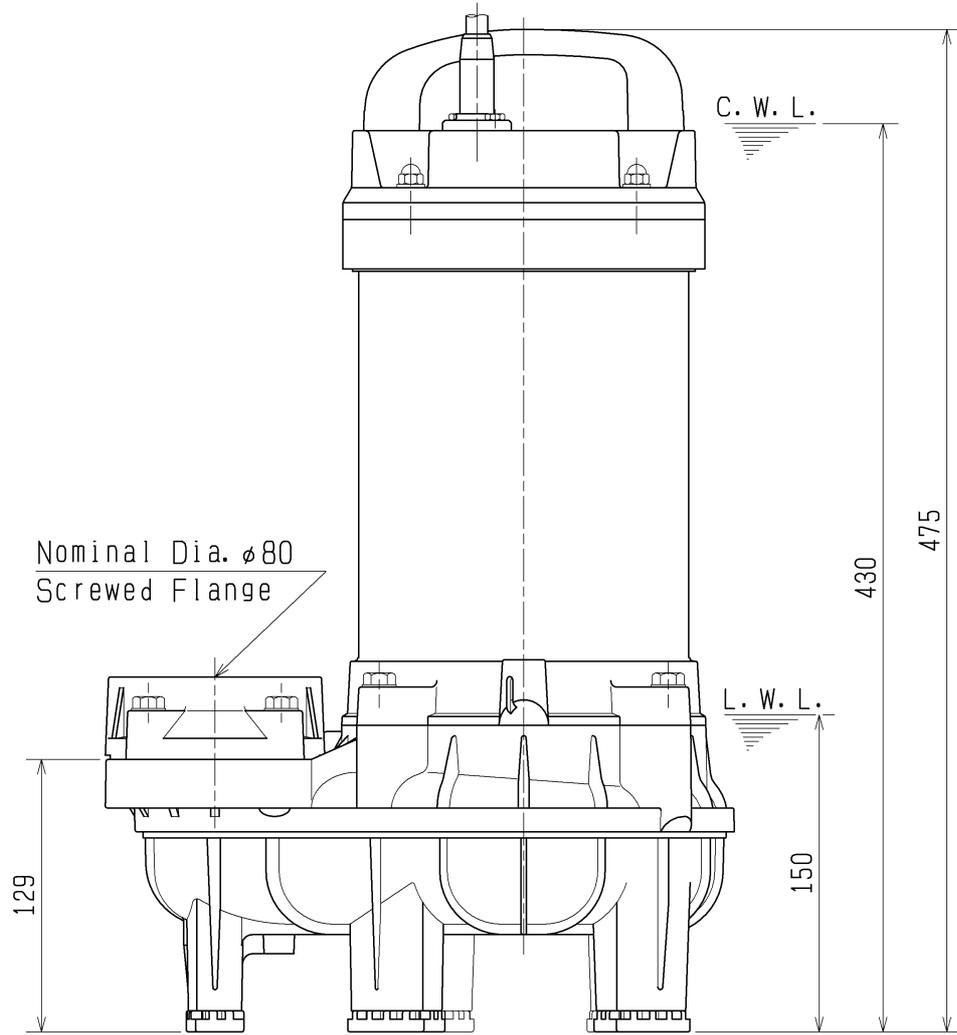
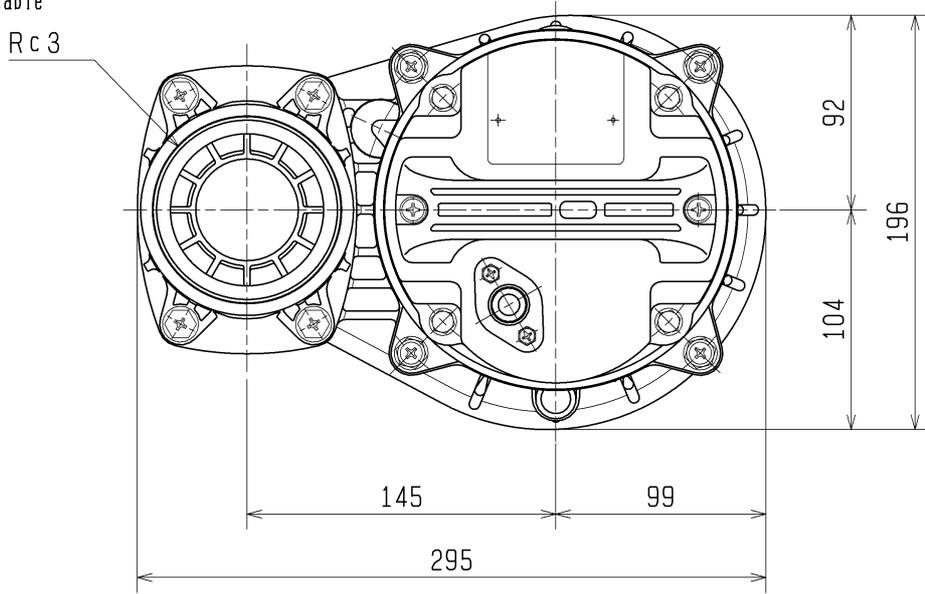
	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	80 mm	mm
TOTAL HEAD	9.5 m	m
CAPACITY	0.4 m ³ /min	m ³ /min
MOTOR OUTPUT	1.5 kW	kW
PHASE x VOLTAGE	3 ϕ x V	ϕ x V
CURRENT	A	A
POLES / REVOLUTION	2 P / s. s. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	E	



TSURUMI MFG. CO., LTD.

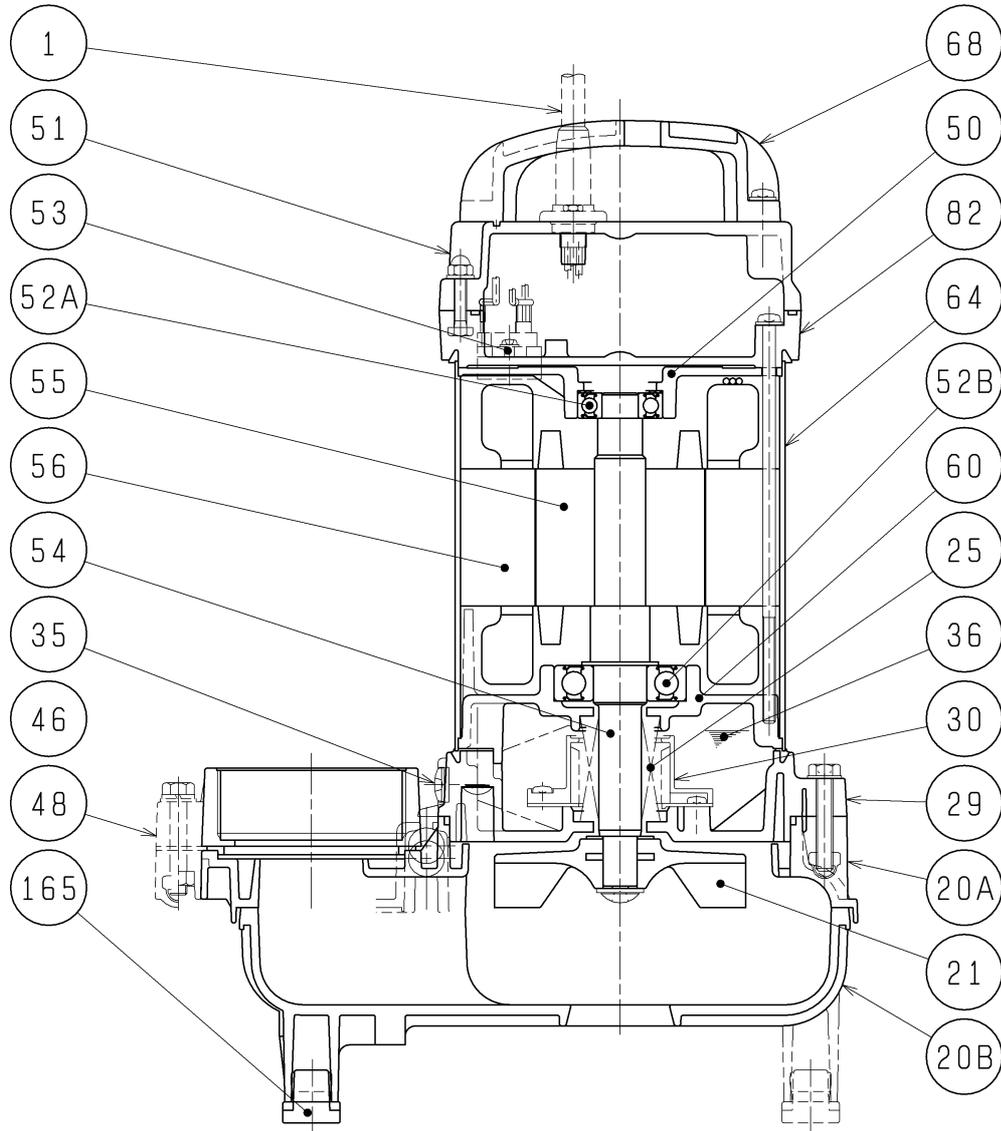
DIMENSION DRAWING		No.	No. A-18340-1
TYPE	Sewage Submersible Vortex Pump	MODEL	80PU21.5 -52/62

Approximate Weight (※)
16.0kg
※excluding cable



C. W. L. :Continuous running Water Level
L. W. L. :Lowest running Water Level

SECTIONAL DRAWING		No.	No. A-18343-1
TYPE	Sewage Submersible Vortex Pump	MODEL	80PU21.5 -52/62



REQ. SPECIFICATION

※1 Upper and lower blocks form a one-piece casing.

※2 the wetted part

No.	DESCRIPTION	Q' TY	MATERIAL / NOTE	No.	DESCRIPTION	Q' TY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	52A	Upper Bearing	1	6203ZCC3
20A	Upper Pump Casing	※1	Plastic W/GF	52B	Lower Bearing	1	6305ZCC3
20B	Lower Pump Casing	1	Plastic W/GF	53	Motor Protector	1	
21	Impeller	1	Plastic W/GF	54	Shaft	1	Stainless Steel 304(※2)
25	Mechanical Seal	1	H-20A	55	Rotor	1	
29	Oil Casing	1	Plastic W/GF	56	Stator	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Aluminium Alloy Casting
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Stainless Steel 304
36	Lubricant		Liquid Paraffin (ISO VG32)	68	Handle	1	Plastic
46	Air Release Valve	1	Glass Ball	82	Head Cover Spacer	1	Plastic W/GF
48	Screwed Flange	1	Plastic W/GF	165	Rubber Foot	5	Nitrile Butadien Rubber
50	Motor Bracket	1	Aluminium Alloy Casting				
51	Head Cover	1	Plastic W/GF				