

NO. J4-36424-1

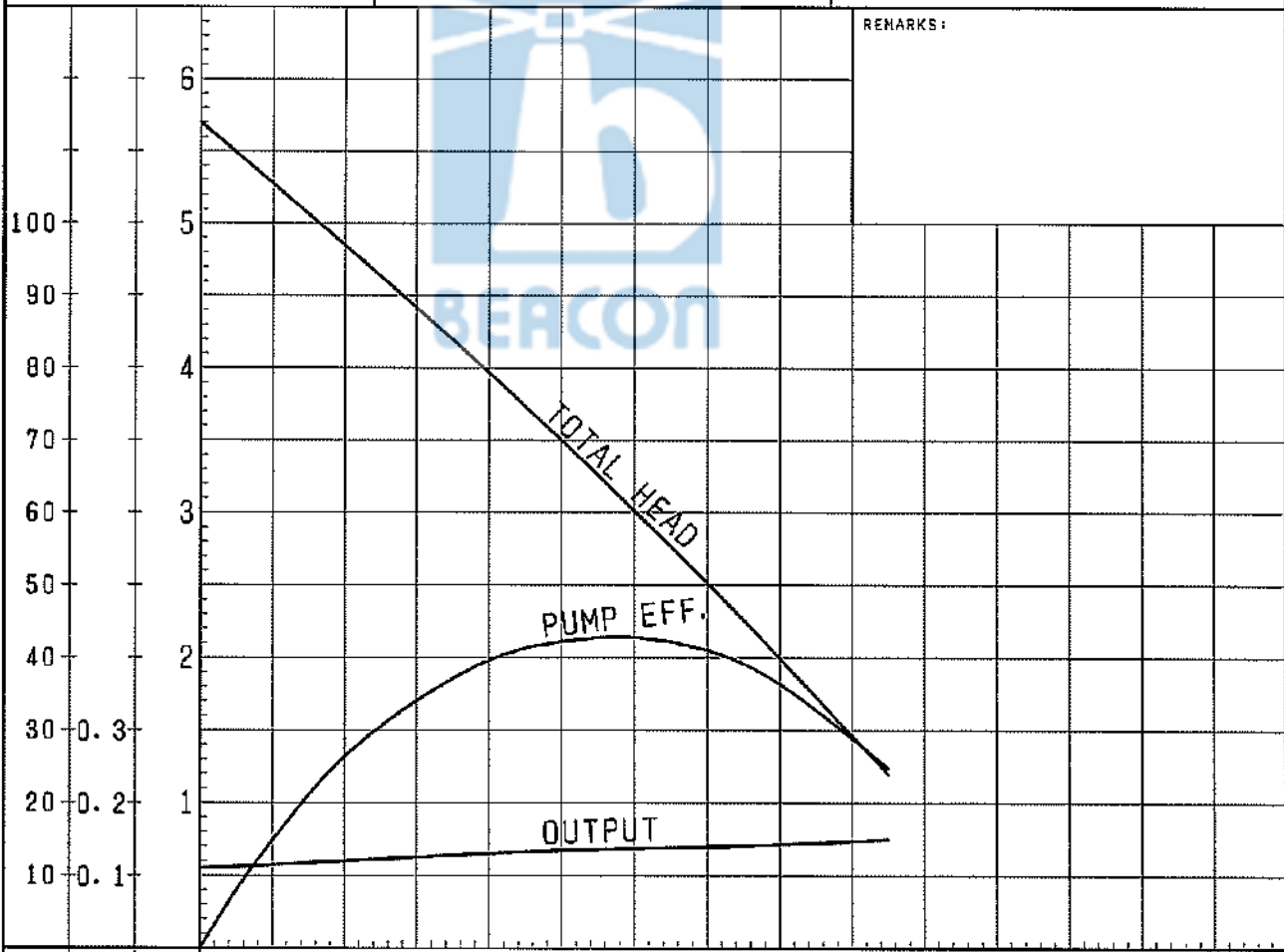
PUMP PERFORMANCE CURVES

TYPE Submersible Vortex Sewage Pump (Automatic)	MODEL 50PUMA2.15S -52	FREQUENCY 50 Hz
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CUSTOMER'S NAME _____

EQUIPMENT TITLE _____ NO. _____

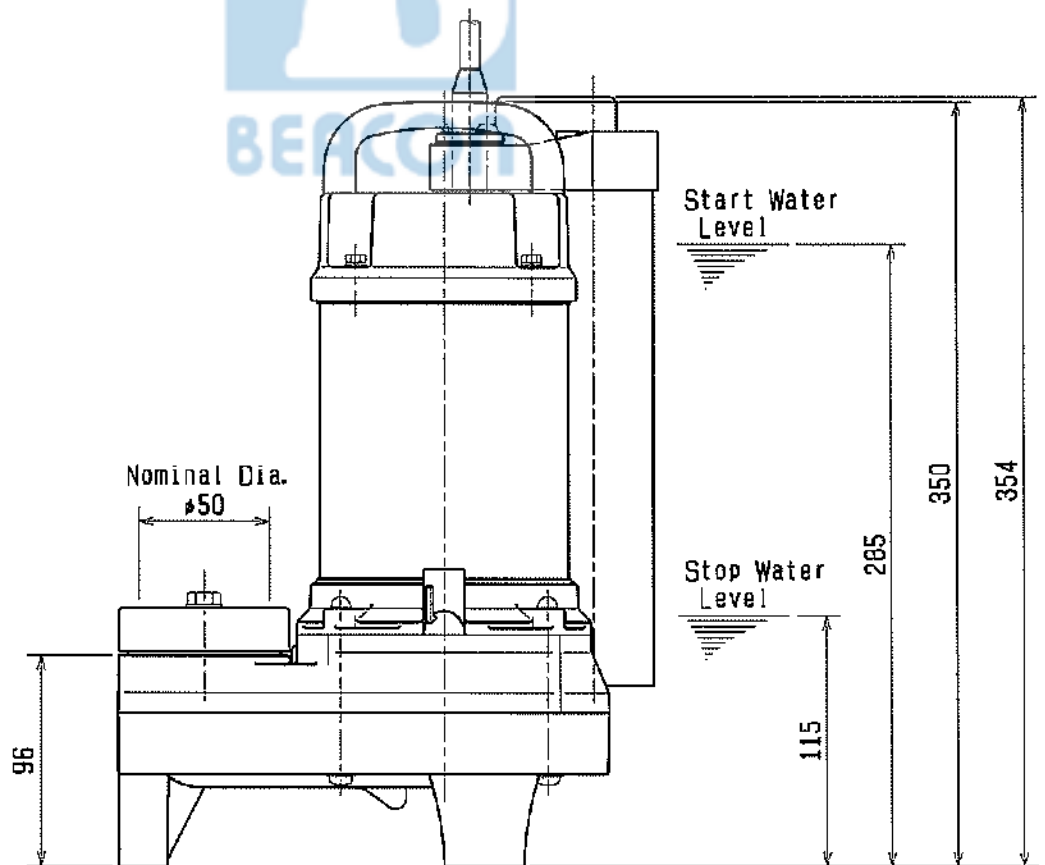
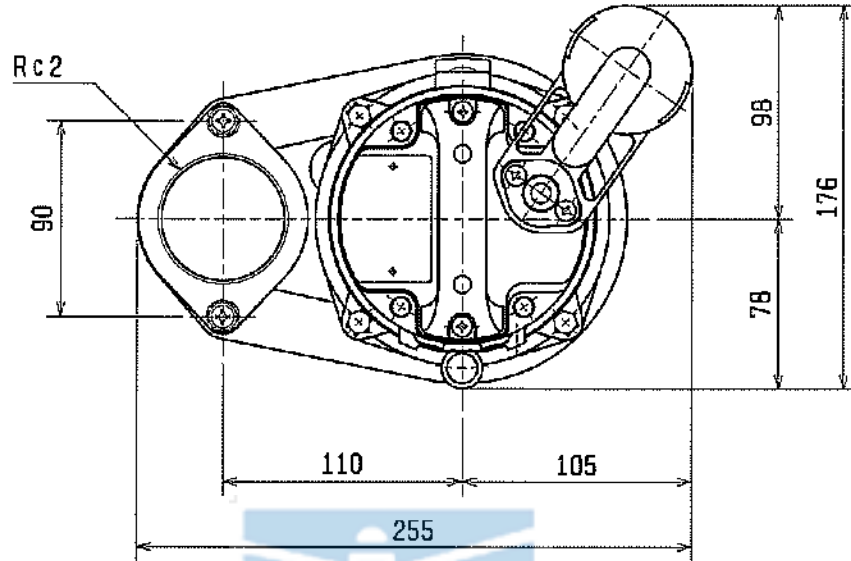
	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	mm	50 mm
TOTAL HEAD	m	Max. 5.7 m
CAPACITY	m ³ /min	Max. 0.19 m ³ /min
MOTOR OUTPUT	kW	0.15 kW
PHASE X VOLTAGE	φ X V	1 φ X 220/230/240 V
CURRENT	A	1.6/1.6/1.7 A
POLES / REVOLUTION	P / min ⁻¹	2 P / s. s. 3000 min ⁻¹
STARTING METHOD		CAPACITOR MOTOR
INSULATION CLASS		E



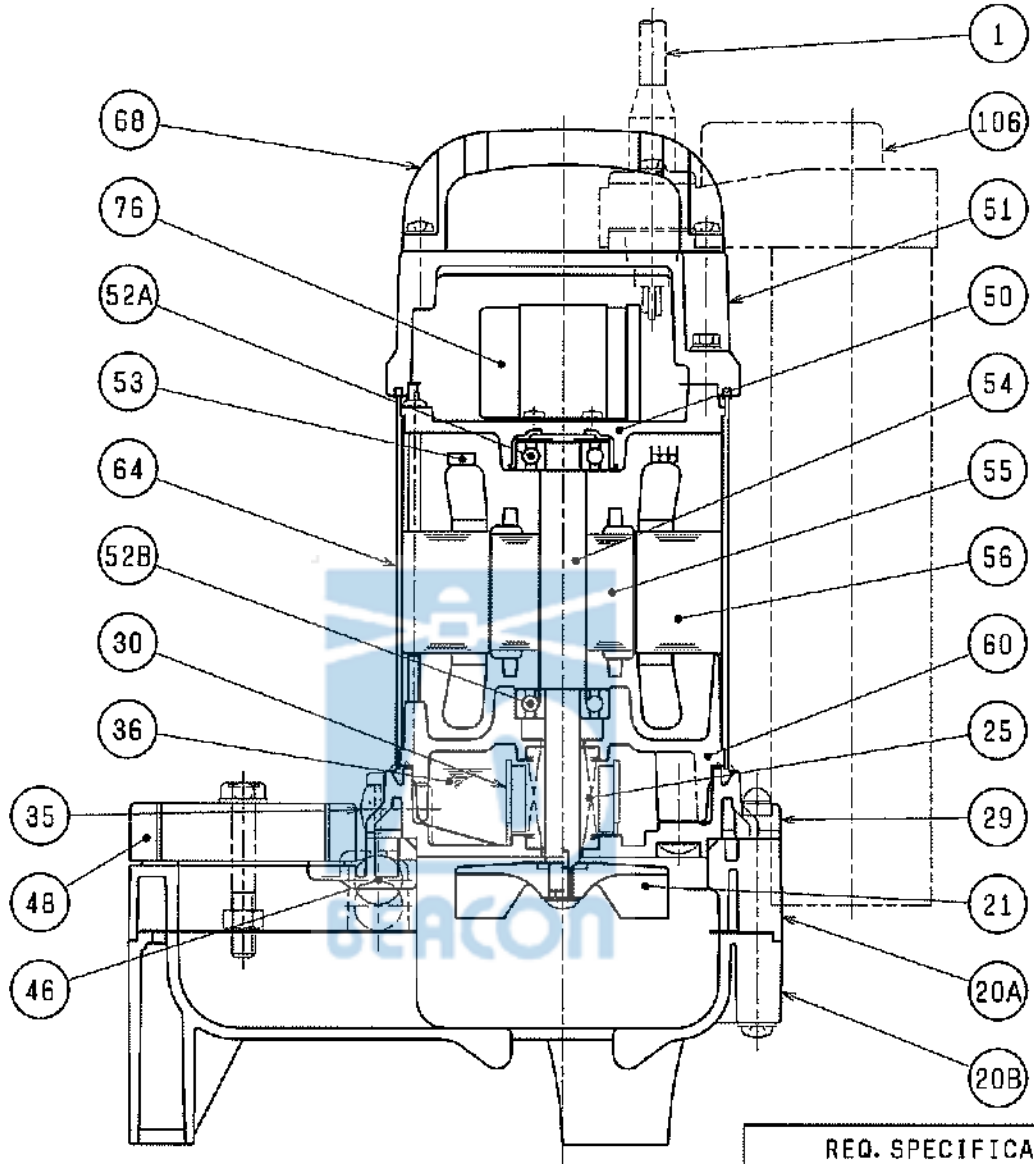
	%	kW	m							
PUMP EFF.	MOTOR OUTPUT	TOTAL HEAD	CAPACITY							
			0.1	0.2	m ³ /min					

TSURUMI MFG. CO., LTD.

DIMENSION DRAWING		No.	No. J4-36422-1
TYPE	Submersible Vortex Sewage Pump (Automatic)	MODEL	50PUMA2.15S -52



SECTIONAL DRAWING		No.	No. J4-36423-1
TYPE	Submersible Vortex Sewage Pump (Automatic)	MODEL	50PUMA2.15S -52



REQ. SPECIFICATION	

※ 3c×0.75mm²×5m

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath ※	52A	Upper Bearing	1	6201ZZC3
20A	Casing-upper Half	1	Plastic W/GF	52B	Lower Bearing	1	6201ZZC3
20B	Casing-lower Half	1	Plastic	53	Motor Protector	1	
21	Impeller	1	Plastic W/GF	54	Shaft	1	Stainless Steel 420J2
25	Mechanical Seal	1	D-12RC	55	Rotor	1	
29	Oil Casing	1	Plastic W/GF	56	Stator Complete	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Aluminium Die Casting
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Stainless Steel 304
36	Lubricant		White Mineral Oil (ISO VG32)	68	Handle	1	Plastic
46	Air Release Valve	1	Glass Ball	76	Capacitor	1	
48	Screwed Flange	1	Plastic	106	Float	1	Plastic
50	Motor Bracket	1	Aluminium Die Casting				
51	Head Cover	1	Plastic W/GF				

NO. A-09949-1

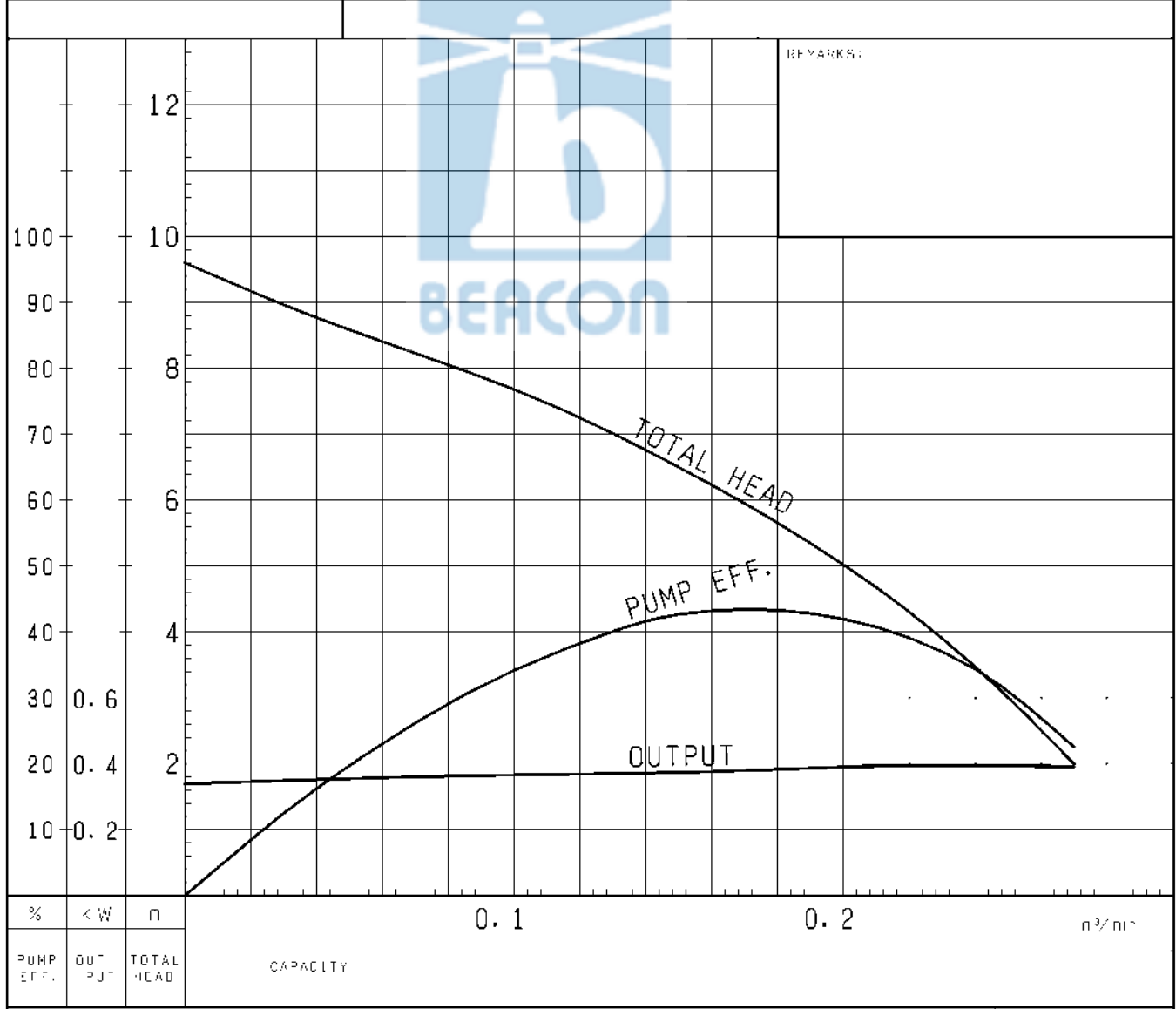
PUMP PERFORMANCE CURVES

TYPE Sewage Submersible Vortex Pump	MODEL 50PU2.4 -52, 50PUA2.4 -52 50PUW2.4 -52	FREQUENCY 50 Hz
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CUSTOMER'S NAME _____

EQUIPMENT TITLE _____ NO. _____

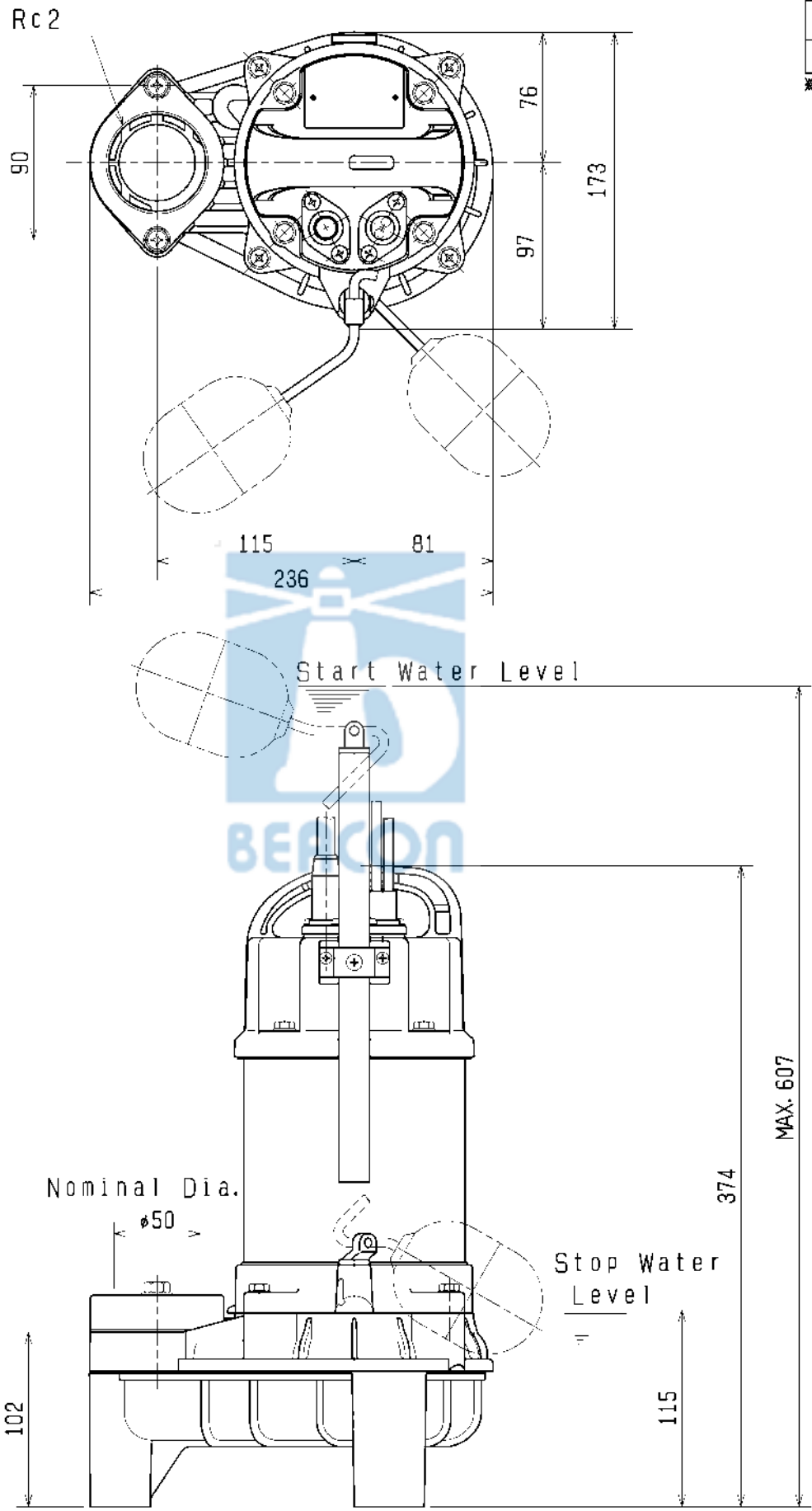
	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	50 mm	mm
TOTAL HEAD	6.5 m	m
CAPACITY	0.15 m ³ /min	m ³ /min
MOTOR OUTPUT	0.4 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / S. S. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	E	



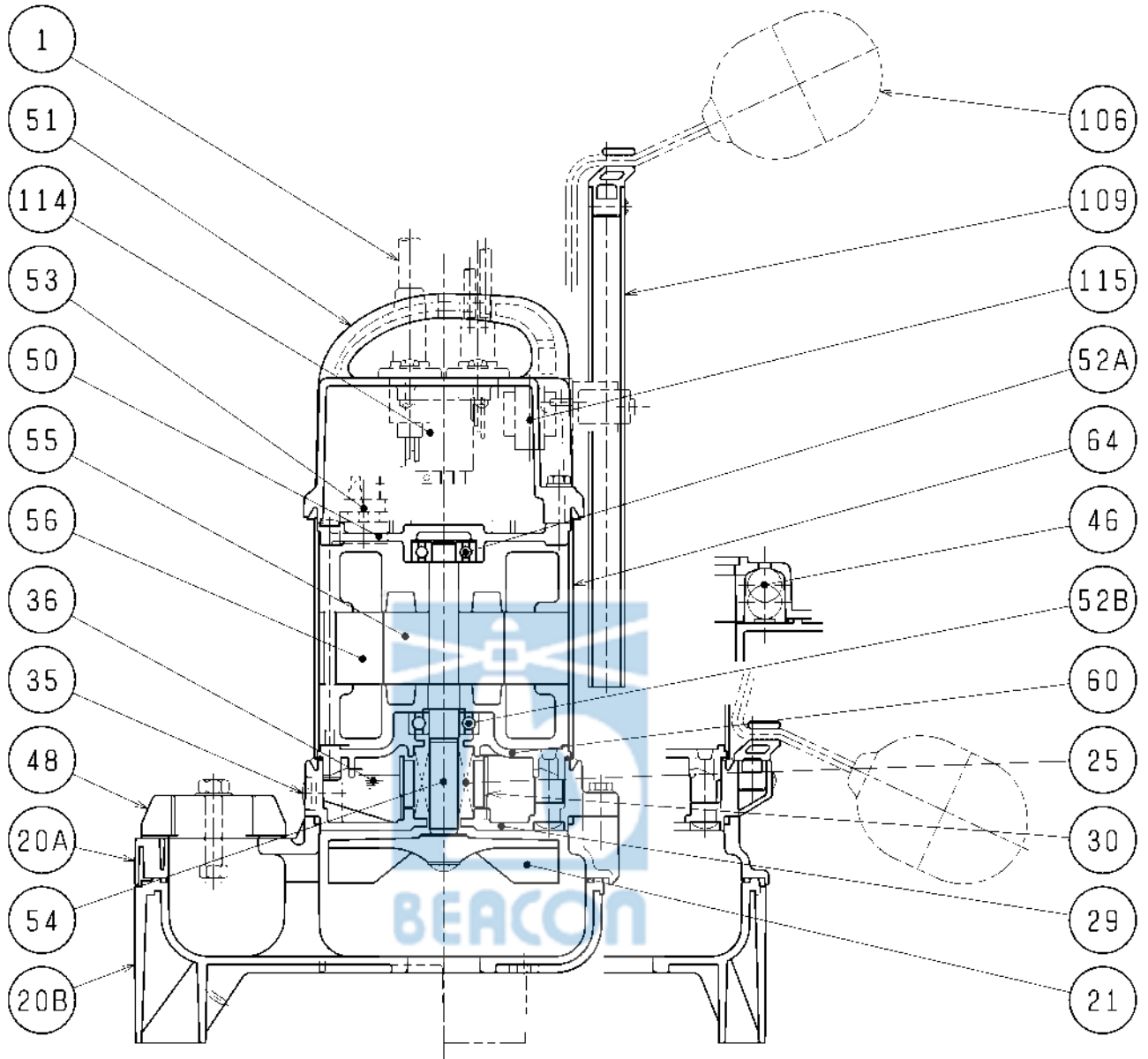
TSURUMI MFG. CO., LTD.

DIMENSION DRAWING		No.	No. A-09984-2
TYPE Sewage Submersible Vortex Pump (Automatic)	MODEL 50PUA2.4 -52/62		

Approximate Weight (kg)
7.5kg
*excluding cable



SECTIONAL DRAWING		No.	No. A-10023-3
TYPE	Sewage Submersible Vortex Pump (Automatic)	MODEL	40PUA2.25 -52/62, 50PUA2.4 -52/62 50PUA2.75 -52/62

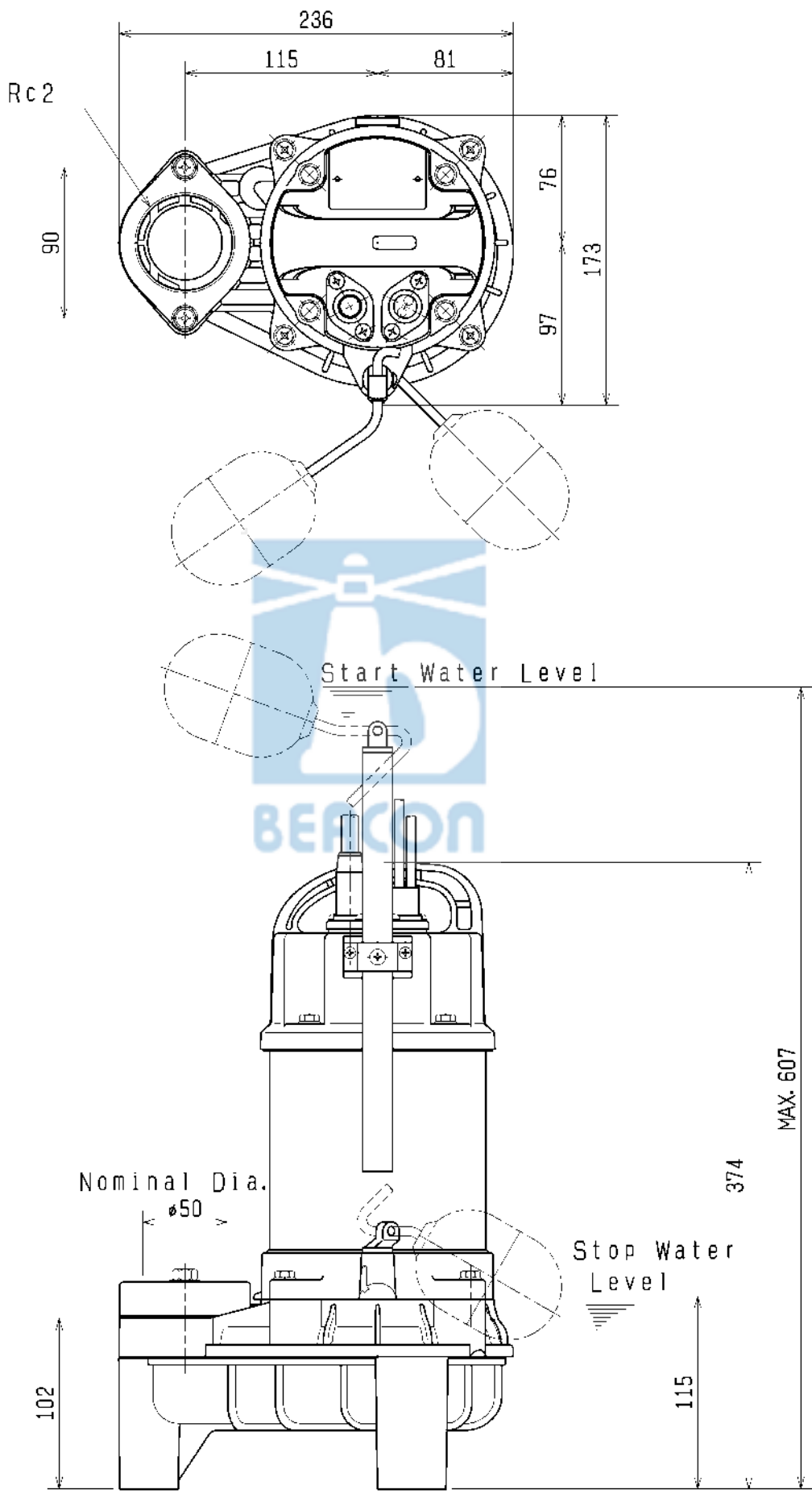


REQ. SPECIFICATION

* Upper and lower blocks form a one-piece casing.

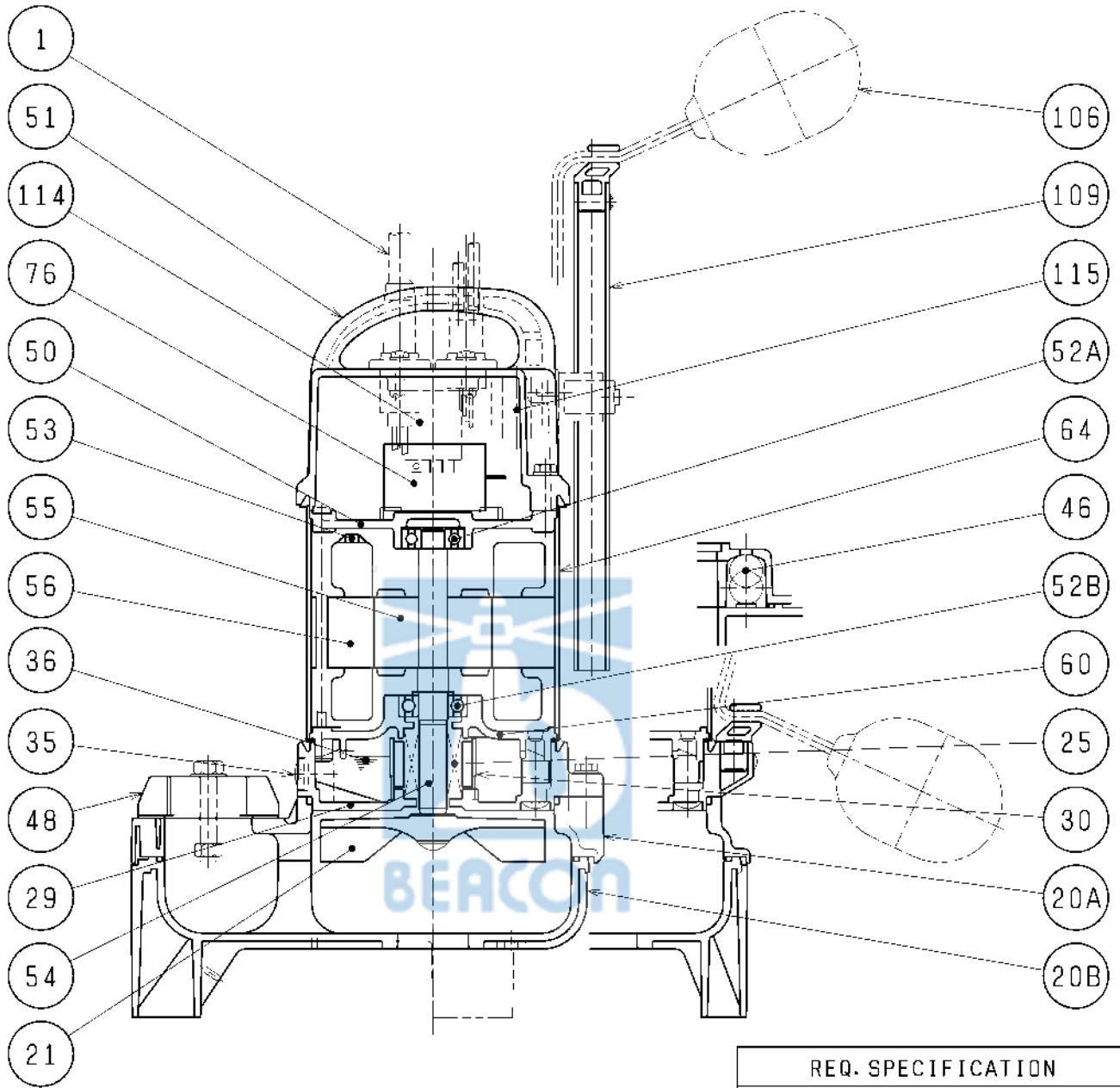
No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	52B	Lower Bearing	1	0.25/0.4kW:6202ZZC3 0.75kW :6302ZZC3
20A	Upper Pump Casing	*	Plastic W/GF	53	Motor Protector	1	
20B	Lower Pump Casing	1	Plastic	54	Shaft	1	Stainless Steel 304
21	Impeller	1	Plastic W/GF	55	Rotor	1	
25	Mechanical Seal	1	W-14HC	56	Stator	1	
29	Oil Casing	1	Plastic W/GF	60	Bearing Housing	1	Aluminium Die Casting
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Stainless Steel 304
35	Oil Plug	1	Stainless Steel 304	106	Float	2	Plastic
36	Lubricant		Liquid Paraffin (ISO VG32)	109	Float Support Pipe	1	Plastic
46	Air Release Valve	1	Glass Ball	114	Power Relay	1	
48	Screwed Flange	1	Plastic W/GF	115	Transformer	1	
50	Motor Bracket	1	Aluminium Die Casting				
51	Head Cover	1	Plastic W/GF				
52A	Upper Bearing	1	6201ZZC3				

DIMENSION DRAWING		No.	No. A-09981-2
TYPE Sewage Submersible Vortex Pump (Automatic)	MODEL 50PUA2.4S -52/62		



Approximate Weight (※)
7.7kg
※excluding cable

SECTIONAL DRAWING		No.	No. A-10020-4
TYPE	Submersible Vortex Sewage Pump (Automatic)	MODEL	40PUA2.25S -52/62 50PUA2.4S -52/62



REQ. SPECIFICATION	

* Upper and lower blocks form a one-piece casing.

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	52B	Lower Bearing	1	6202ZZC3
20A	Upper Pump Casing	1	Plastic W/GF	53	Motor Protector	1	
20B	Lower Pump Casing	1	Plastic	54	Shaft	1	Stainless Steel 304
21	Impeller	1	Plastic W/GF	55	Rotor	1	
25	Mechanical Seal	1	W-14HC	56	Stator	1	
29	Oil Casing	1	Plastic W/GF	60	Bearing Housing	1	Aluminium Die Casting
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Stainless Steel 304
35	Oil Plug	1	Stainless Steel 304	76	Capacitor	1	
36	Lubricant		Liquid Paraffin (ISO VG32)	106	Float Set	2	Plastic
46	Air Release Valve	1	Glass Ball	109	Float Support Pipe	1	Plastic
48	Screwed Flange	1	Plastic W/GF	114	Power Relay	1	
50	Motor Bracket	1	Aluminium Die Casting	115	Transformer	1	
51	Head Cover	1	Plastic W/GF				
52A	Upper Bearing	1	6201ZZC3				

NO. A-09951-1

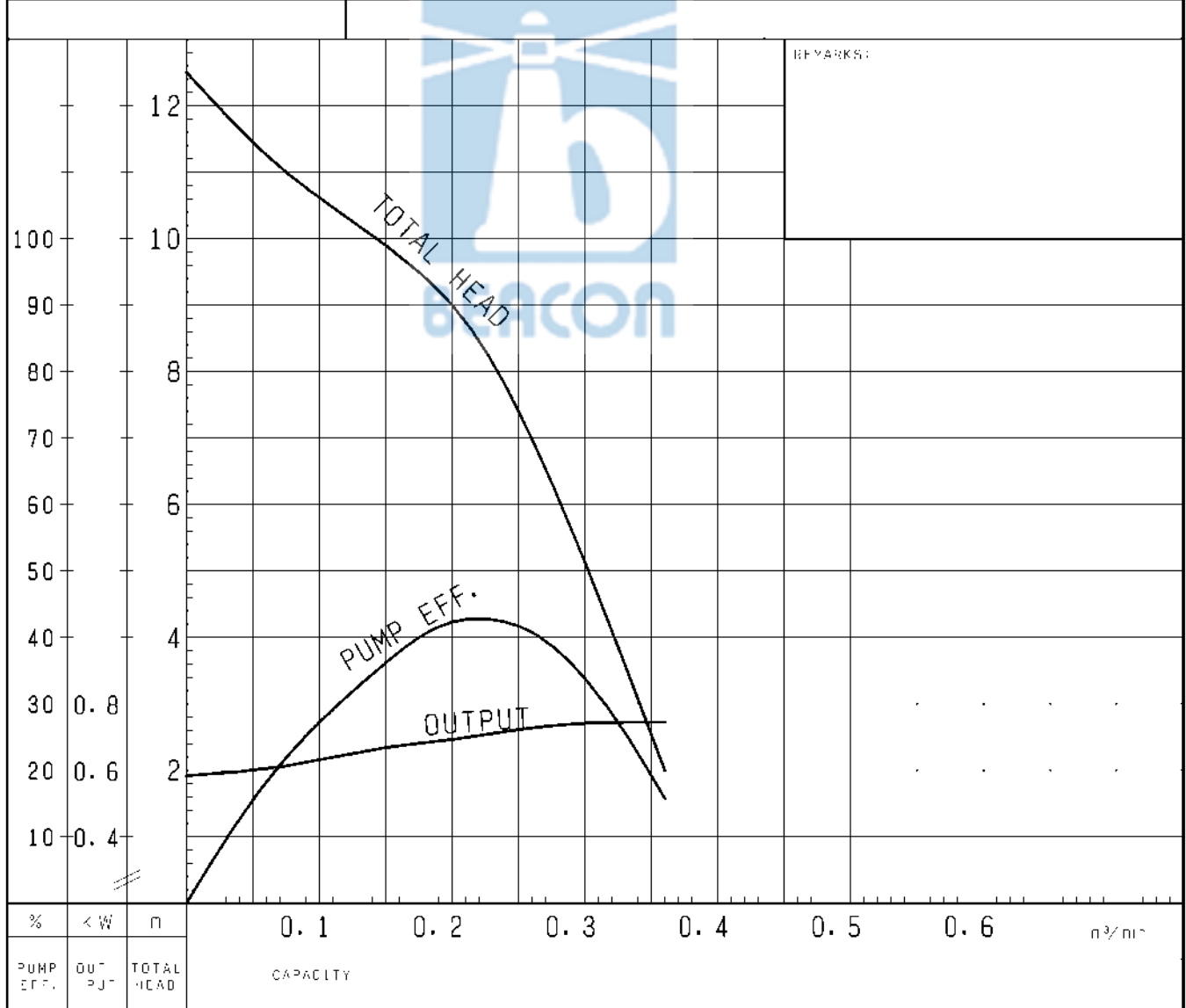
PUMP PERFORMANCE CURVES

TYPE Sewage Submersible Vortex Pump	MODEL 50PU2.75 -52, 50PUA2.75 -52 50PUW2.75 -52	FREQUENCY 50 Hz
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CUSTOMER'S NAME _____

EQUIPMENT TITLE _____ NO. _____

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	50 mm	mm
TOTAL HEAD	9.0 m	m
CAPACITY	0.2 m ³ /min	m ³ /min
MOTOR OUTPUT	0.75 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / S. S. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	E	

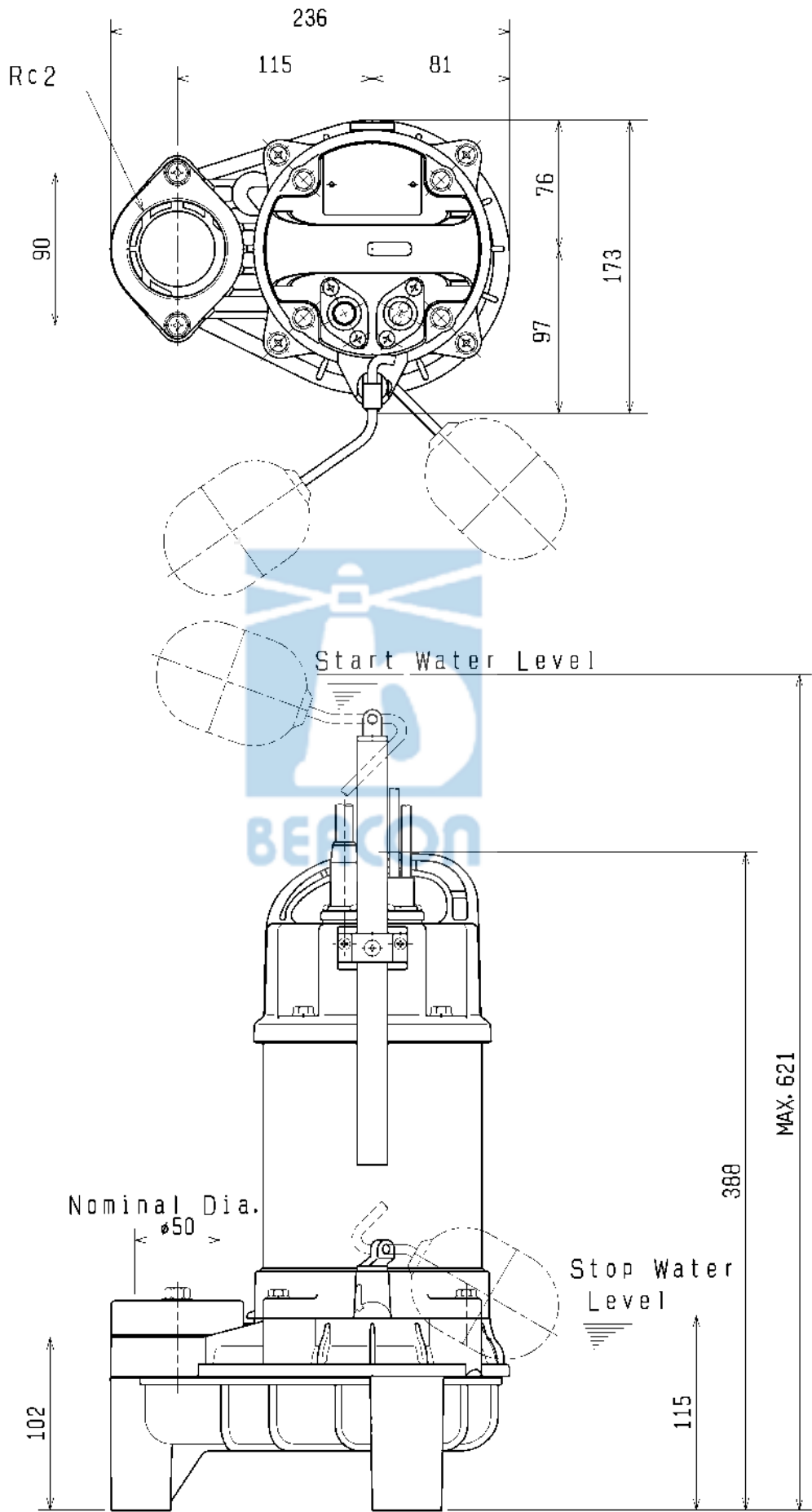


TSURUMI MFG. CO., LTD.

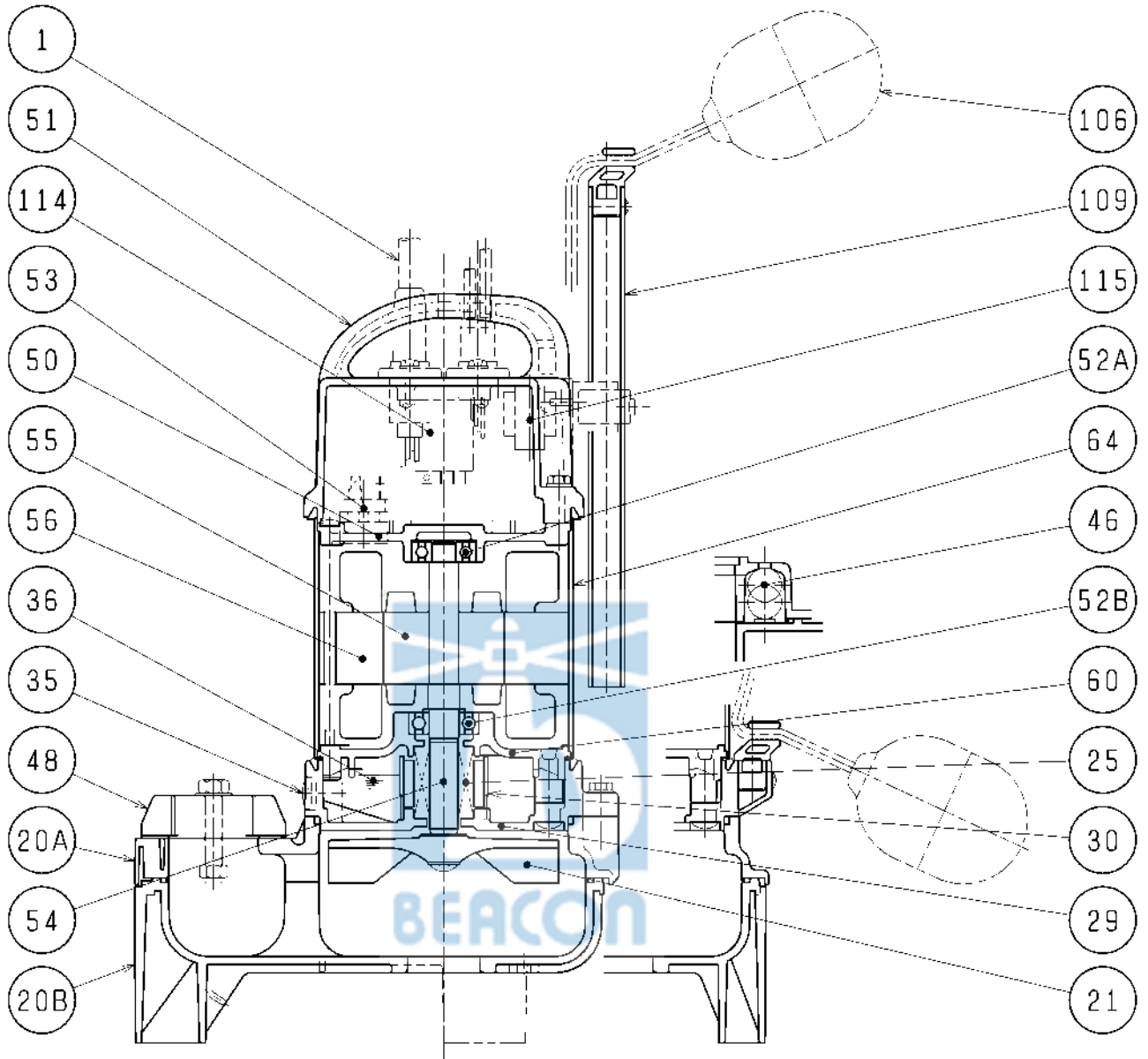
DIMENSION DRAWING		No.	No. A-09987-2
TYPE Sewage Submersible Vortex Pump (Automatic)	MODEL 50PUA2.75 -52/62		

Approximate Weight (kg)
8.9kg

*excluding cable



SECTIONAL DRAWING		No.	No. A-10023-3
TYPE	Sewage Submersible Vortex Pump (Automatic)	MODEL	40PUA2.25 -52/62, 50PUA2.4 -52/62 50PUA2.75 -52/62



REQ. SPECIFICATION

* Upper and lower blocks form a one-piece casing.

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	52B	Lower Bearing	1	0.25/0.4kW:6202ZC3 0.75kW :6302ZC3
20A	Upper Pump Casing	1	Plastic W/GF	53	Motor Protector	1	
20B	Lower Pump Casing	1	Plastic	54	Shaft	1	Stainless Steel 304
21	Impeller	1	Plastic W/GF	55	Rotor	1	
25	Mechanical Seal	1	W-14HC	56	Stator	1	
29	Oil Casing	1	Plastic W/GF	60	Bearing Housing	1	Aluminium Die Casting
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Stainless Steel 304
35	Oil Plug	1	Stainless Steel 304	106	Float	2	Plastic
36	Lubricant		Liquid Paraffin (ISO VG32)	109	Float Support Pipe	1	Plastic
46	Air Release Valve	1	Glass Ball	114	Power Relay	1	
48	Screwed Flange	1	Plastic W/GF	115	Transformer	1	
50	Motor Bracket	1	Aluminium Die Casting				
51	Head Cover	1	Plastic W/GF				
52A	Upper Bearing	1	6201ZC3				

NO. A-10475-2

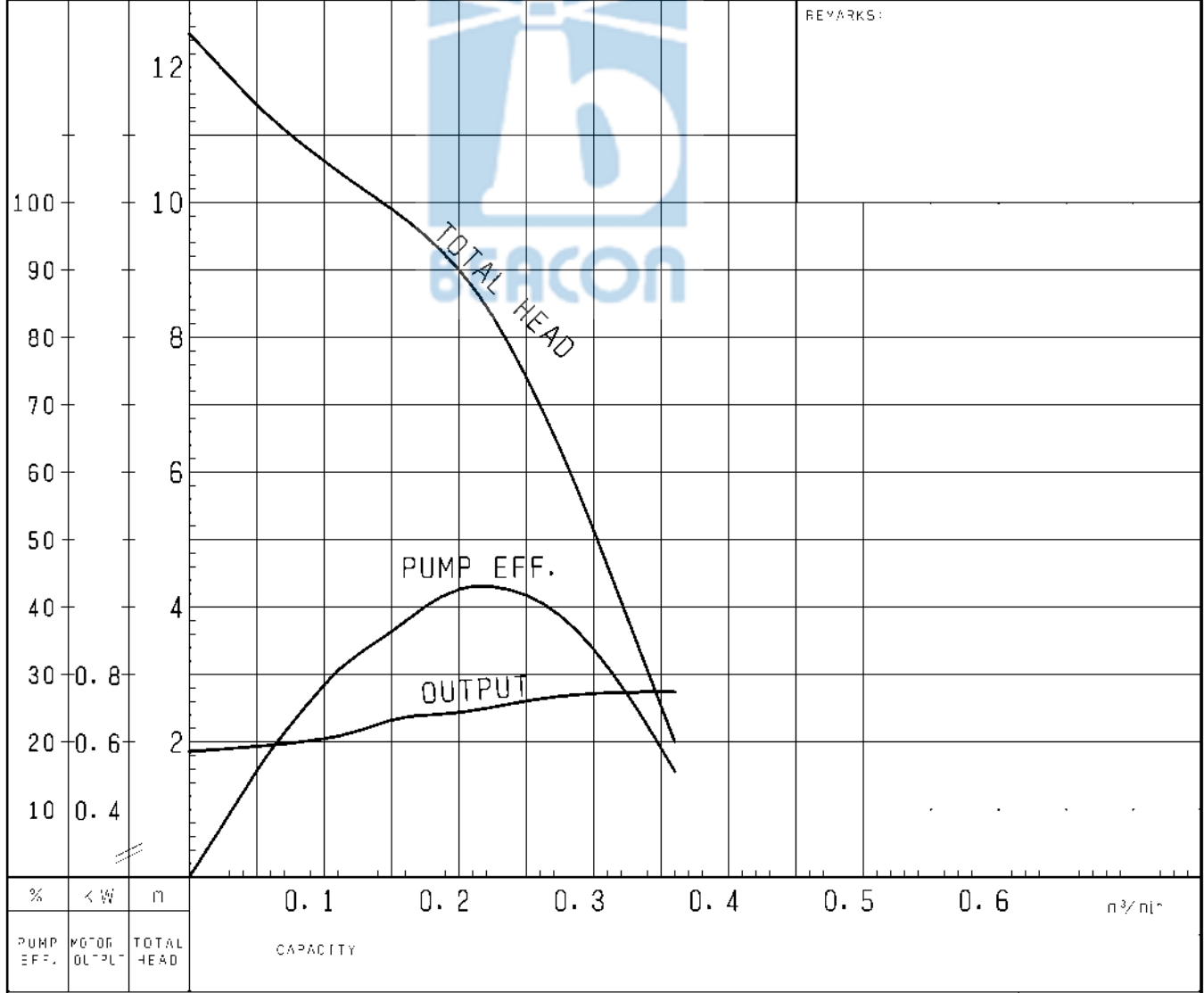
PUMP PERFORMANCE CURVES

TYPE Sewage Submersible Vortex Pump	MODEL 50PU2.75S -52 50PUA2.75S -52	FREQUENCY 50 Hz
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CUSTOMER'S NAME _____

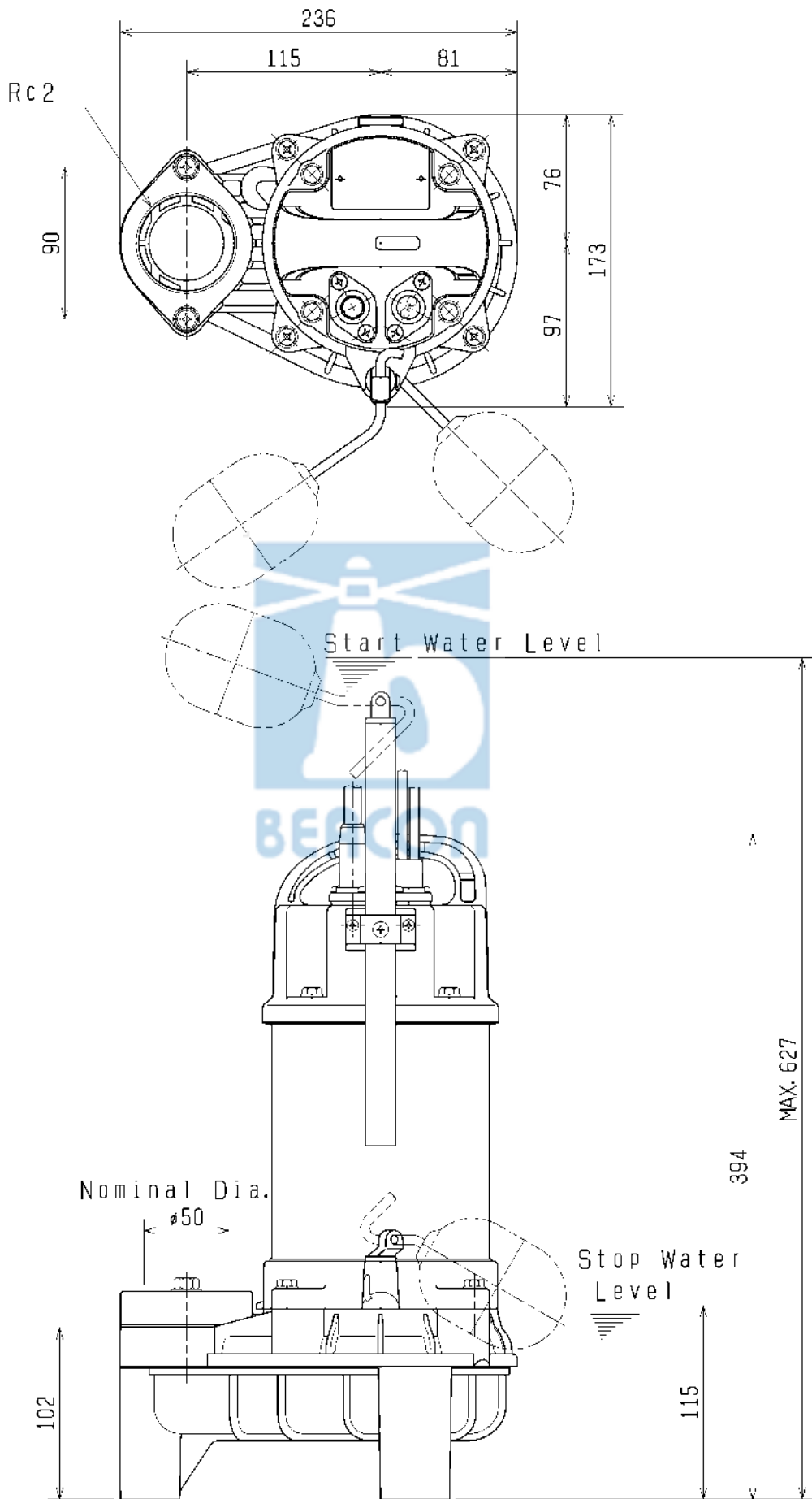
EQUIPMENT TITLE _____ NO. _____

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	50 mm	mm
TOTAL HEAD	9.0 m	m
CAPACITY	0.2 m ³ /min	m ³ /min
MOTOR OUTPUT	0.75 kW	kW
PHASE x VOLTAGE	1 φ x V	φ x V
CURRENT	A	A
POLES / REVOLUTION	2 P / s. s. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	CAPACITOR MOTOR	
INSULATION CLASS	E	



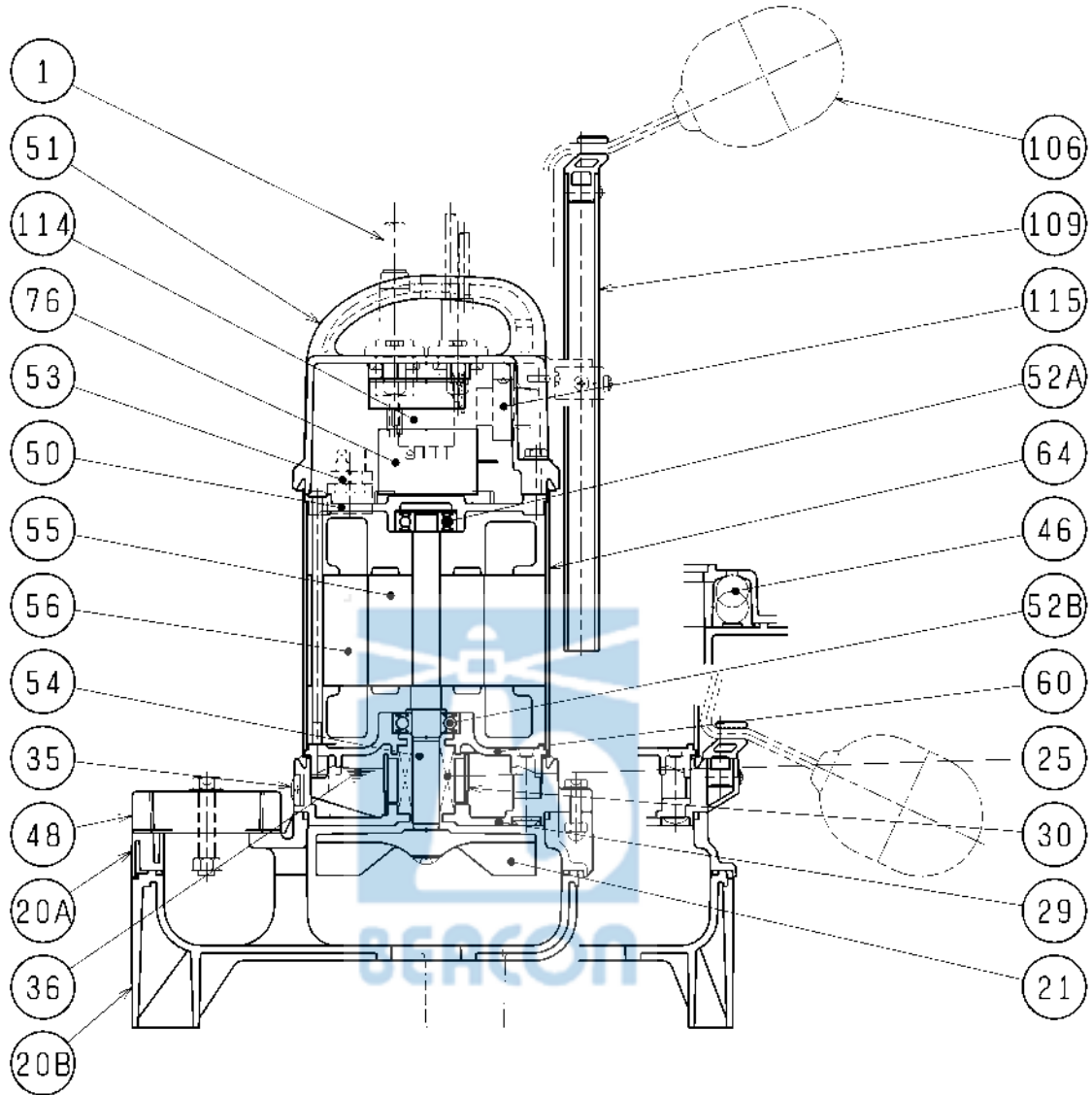
TSURUMI MFG. CO., LTD.

DIMENSION DRAWING		No.	No. A-10478-2
TYPE Sewage Submersible Vortex Pump (Automatic)	MODEL 50PUA2.75S -52/62		



Approximate Weight (※)
9.5kg
※excluding cable

SECTIONAL DRAWING		No.	No. A-17607-2
TYPE	Submersible Vortex Sewage Pump (Automatic)	MODEL	50PUA2.75S -52/62



REQ. SPECIFICATION

* Upper and lower blocks form a one-piece casing.

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	53	Motor Protector	1	
20A	Upper Pump Casing	1	Plastic W/GF	54	Shaft	1	Stainless Steel 304
20B	Lower Pump Casing	1	Plastic	55	Rotor	1	
21	Impeller	1	Plastic W/GF	56	Stator	1	
25	Mechanical Seal	1	W-14HC	60	Bearing Housing	1	Aluminium Die Casting
29	Oil Casing	1	Plastic W/GF	64	Motor Frame	1	Stainless Steel 304
30	Oil Lifter	1	Plastic	76	Capacitor	1	
35	Oil Plug	1	Stainless Steel 304	106	Float Set	2	Plastic
36	Lubricant		Liquid Paraffin (ISO VG32)	109	Float Support Pipe	1	Plastic
46	Air Release Valve	1	Glass Ball	114	Power Relay	1	
48	Screwed Flange	1	Plastic W/GF	115	Transformer	1	
50	Motor Bracket	1	Aluminium Die Casting				
51	Head Cover	1	Plastic W/GF				
52A	Upper Bearing	1	6201ZZC3				
52B	Lower Bearing	1	6302ZZC3				

NO. A-18338-1

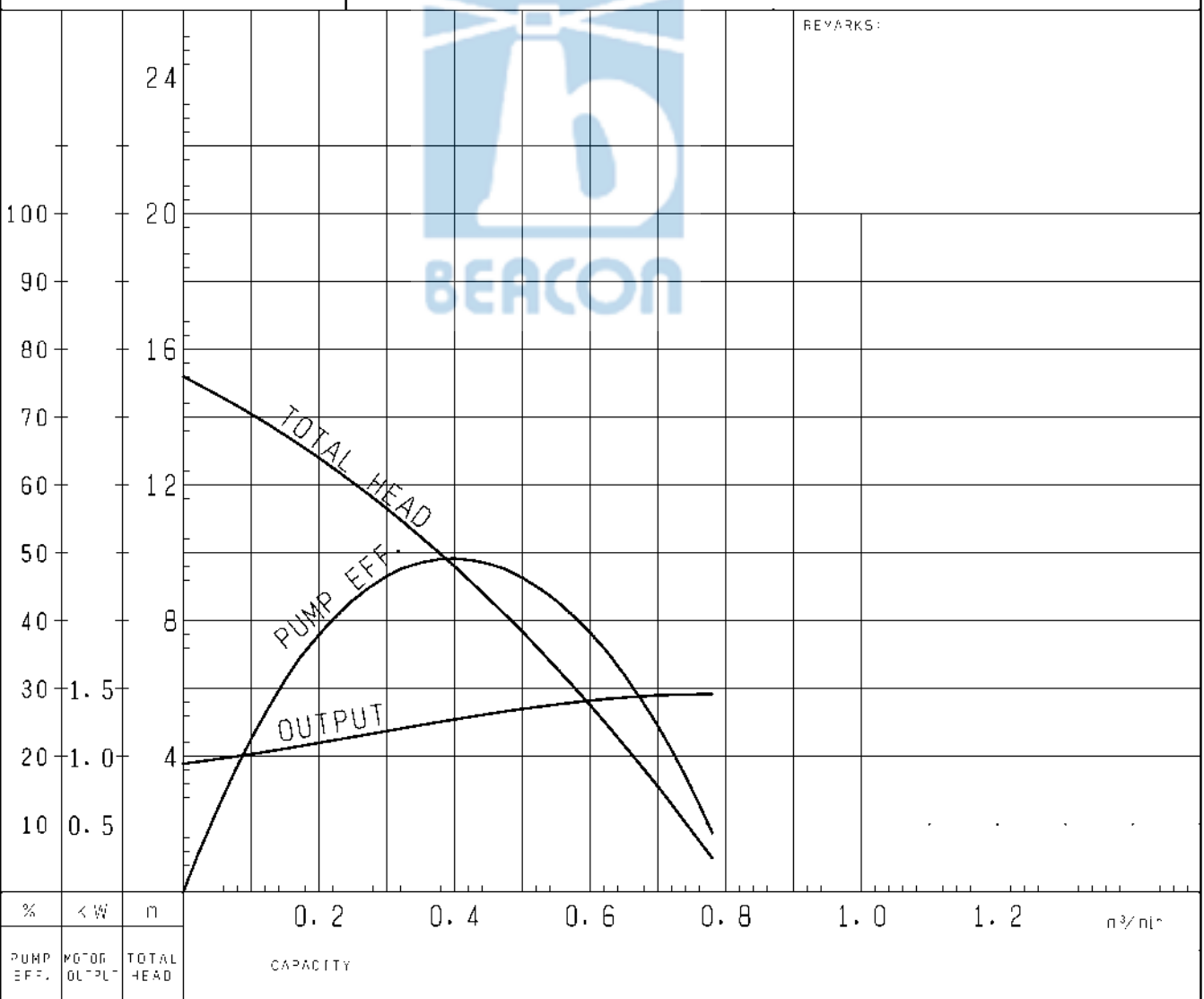
PUMP PERFORMANCE CURVES

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. _____

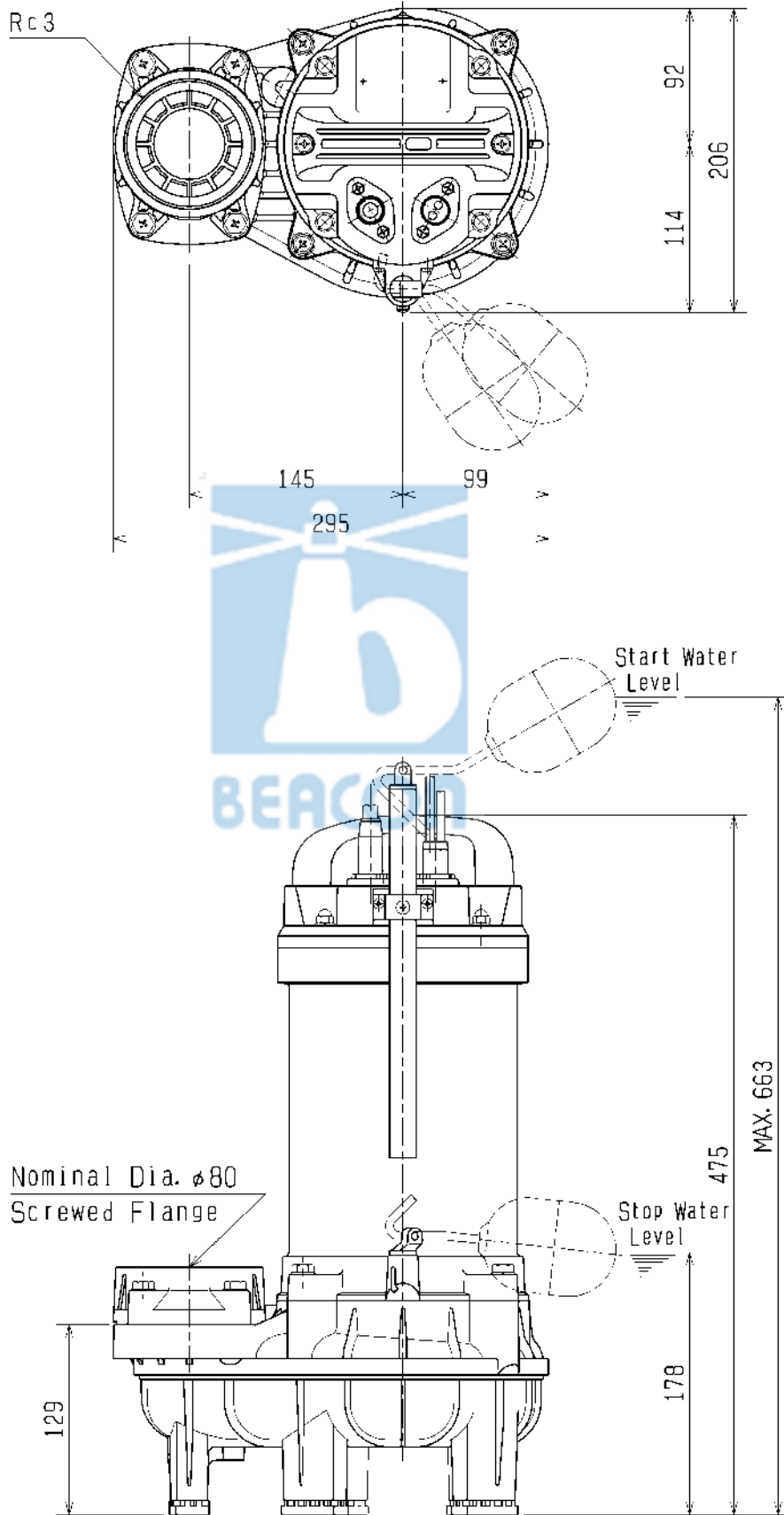
	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	80 mm	mm
TOTAL HEAD	9.5 m	m
CAPACITY	0.4 m ³ /min	m ³ /min
MOTOR OUTPUT	1.5 kW	kW
PHASE x VOLTAGE	3 φ x V	φ x V
CURRENT	A	A
POLES / REVOLUTION	2 P / s. s. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	E	



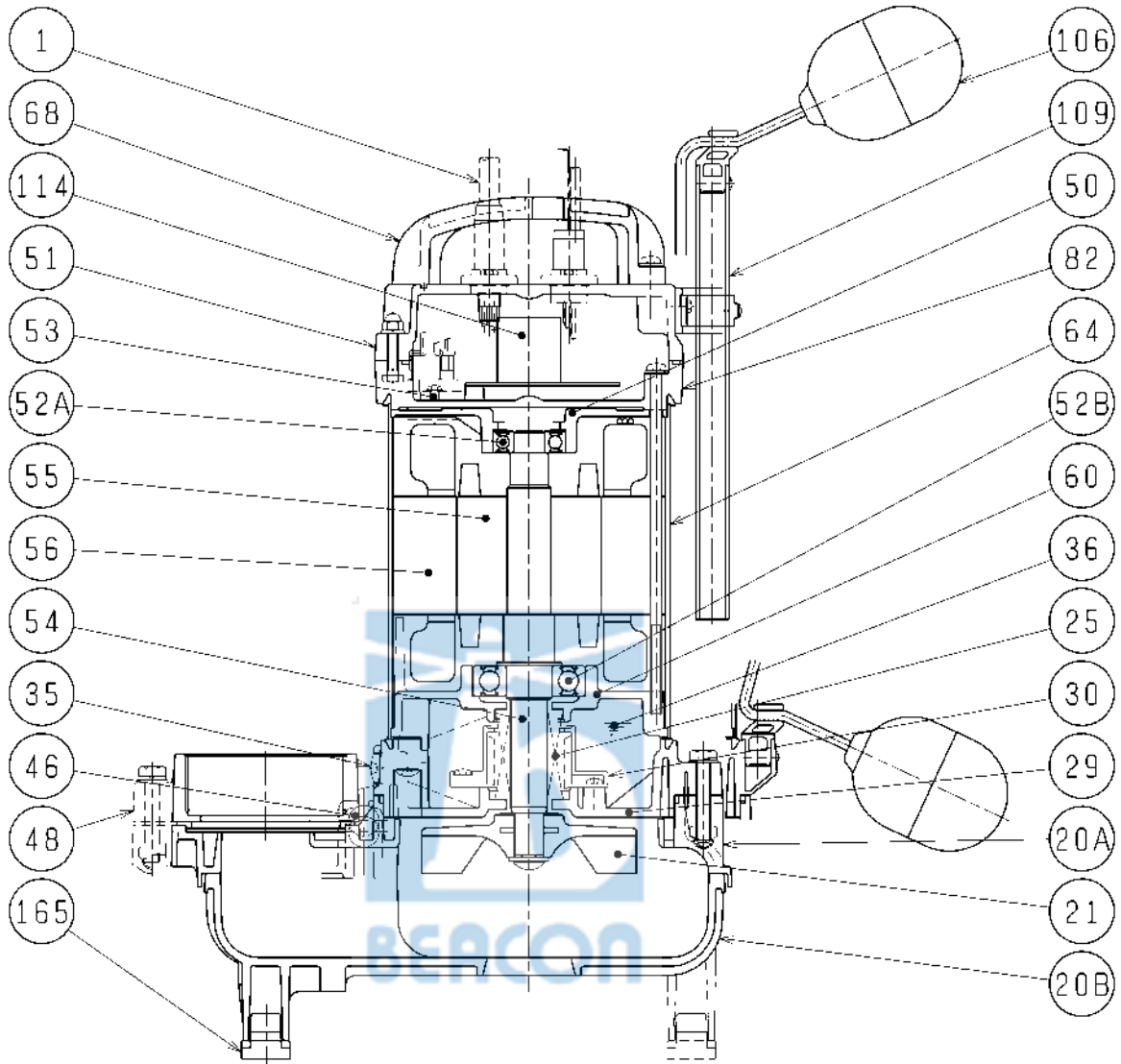
TSURUMI MFG. CO., LTD.

DIMENSION DRAWING		No.	No. A-18341-1
TYPE	Sewage Submersible Vortex Pump (Automatic)	MODEL	80PUA21.5 -52/62

Approximate
Weight (※)
16.7kg
※excluding cable



SECTIONAL DRAWING		No.	No. A-18344-1
TYPE	Sewage Submersible Vortex Pump (Automatic)	MODEL	80PUA21.5 -52/62



REQ. SPECIFICATION	

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

*2 the wetted part

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	53	Motor Protector	1	
20A	Upper Pump Casing	*1	Plastic W/GF	54	Shaft	1	Stainless Steel 304(*2)
20B	Lower Pump Casing	1	Plastic W/GF	55	Rotor	1	
21	Impeller	1	Plastic W/GF	56	Stator	1	
25	Mechanical Seal	1	H-20A	60	Bearing Housing	1	Aluminium Alloy Casting
29	Oil Casing	1	Plastic W/GF	64	Motor Frame	1	Stainless Steel 304
30	Oil Lifter	1	Plastic	68	Handle	1	Plastic
35	Oil Plug	1	Stainless Steel 304	82	Head Cover Spacer	1	Plastic W/GF
36	Lubricant		Liquid Paraffin (ISO VG32)	106	Float Set	2	Plastic
46	Air Release Valve	1	Glass Ball	109	Float Support Pipe	1	PVC
48	Screwed Flange	1	Plastic W/GF	114	Relay Unit	1	
50	Motor Bracket	1	Aluminium Alloy Casting	165	Rubber Foot	5	Nitrile Butadien Rubber
51	Head Cover	1	Plastic W/GF				
52A	Upper Bearing	1	6203ZZC3				
52B	Lower Bearing	1	6305ZZC3				

NO. A-20157-1

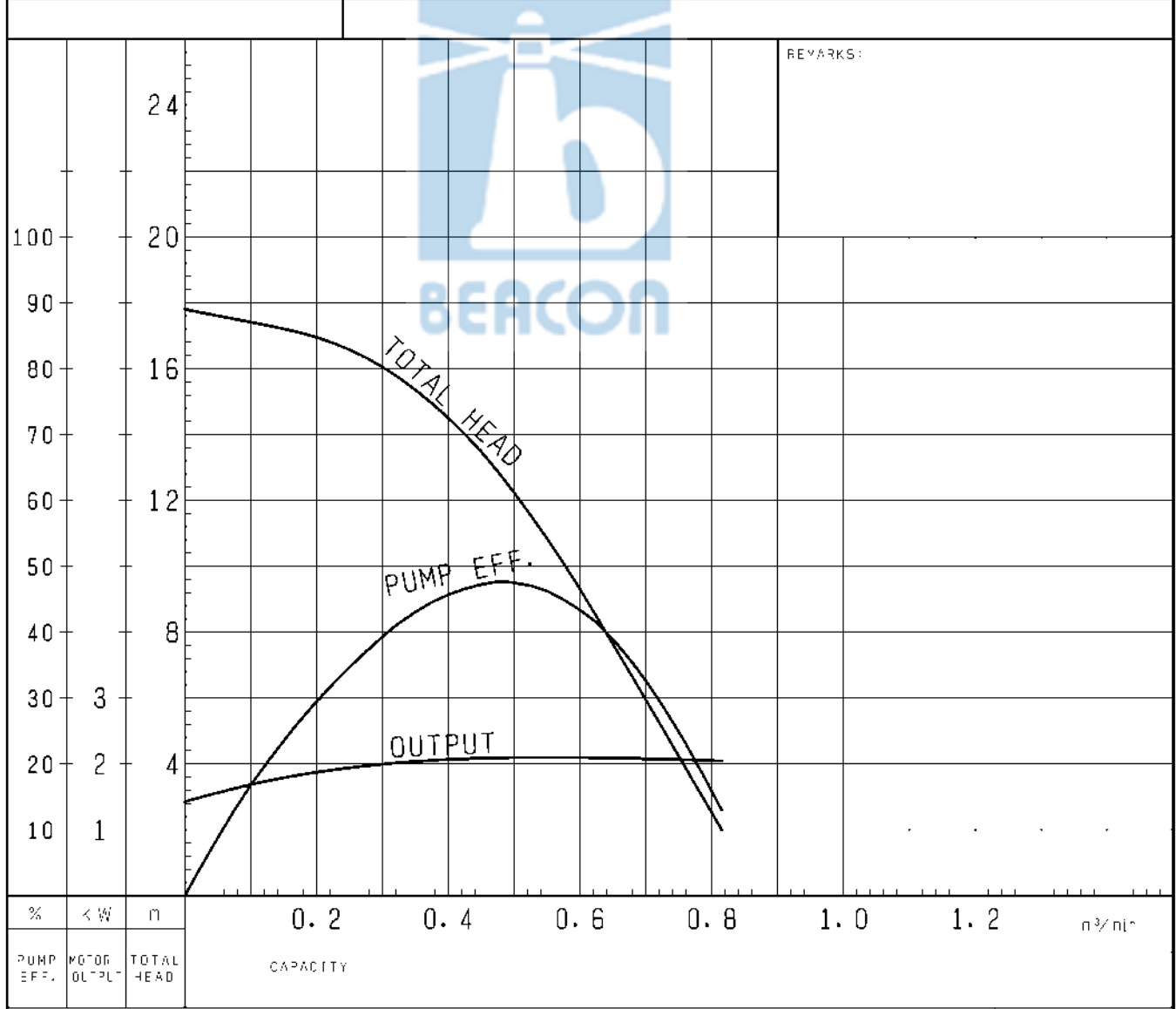
PUMP PERFORMANCE CURVES

TYPE Sewage Submersible Vortex Pump	MODEL 80PU(A/W) 22.2 -51	FREQUENCY 50 Hz
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CUSTOMER'S NAME _____

EQUIPMENT TITLE _____ NO. _____

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	80 mm	mm
TOTAL HEAD	Max. 17.8 m	m
CAPACITY	Max. 0.81 m ³ /min	m ³ /min
MOTOR OUTPUT	2.2 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	

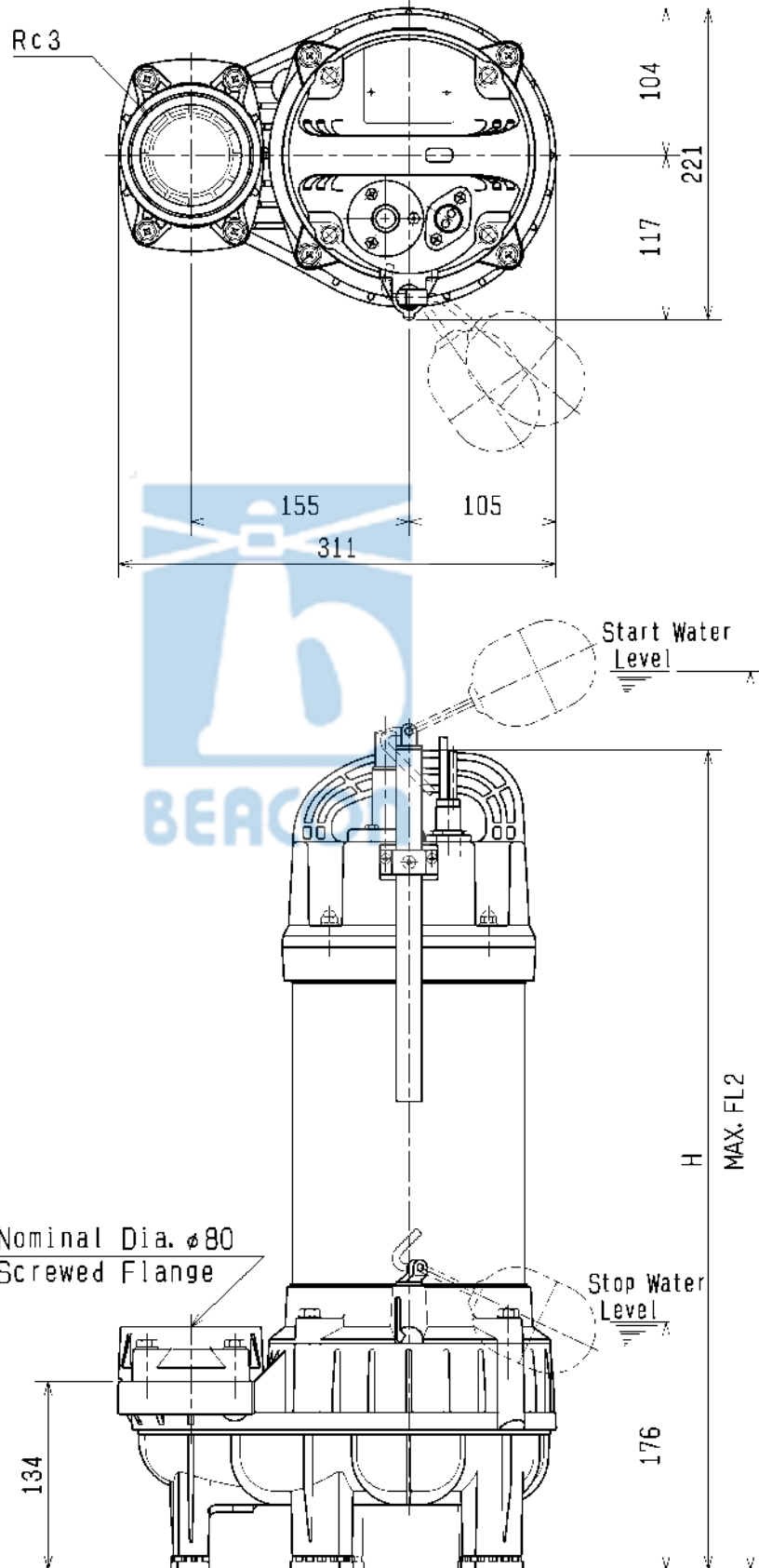


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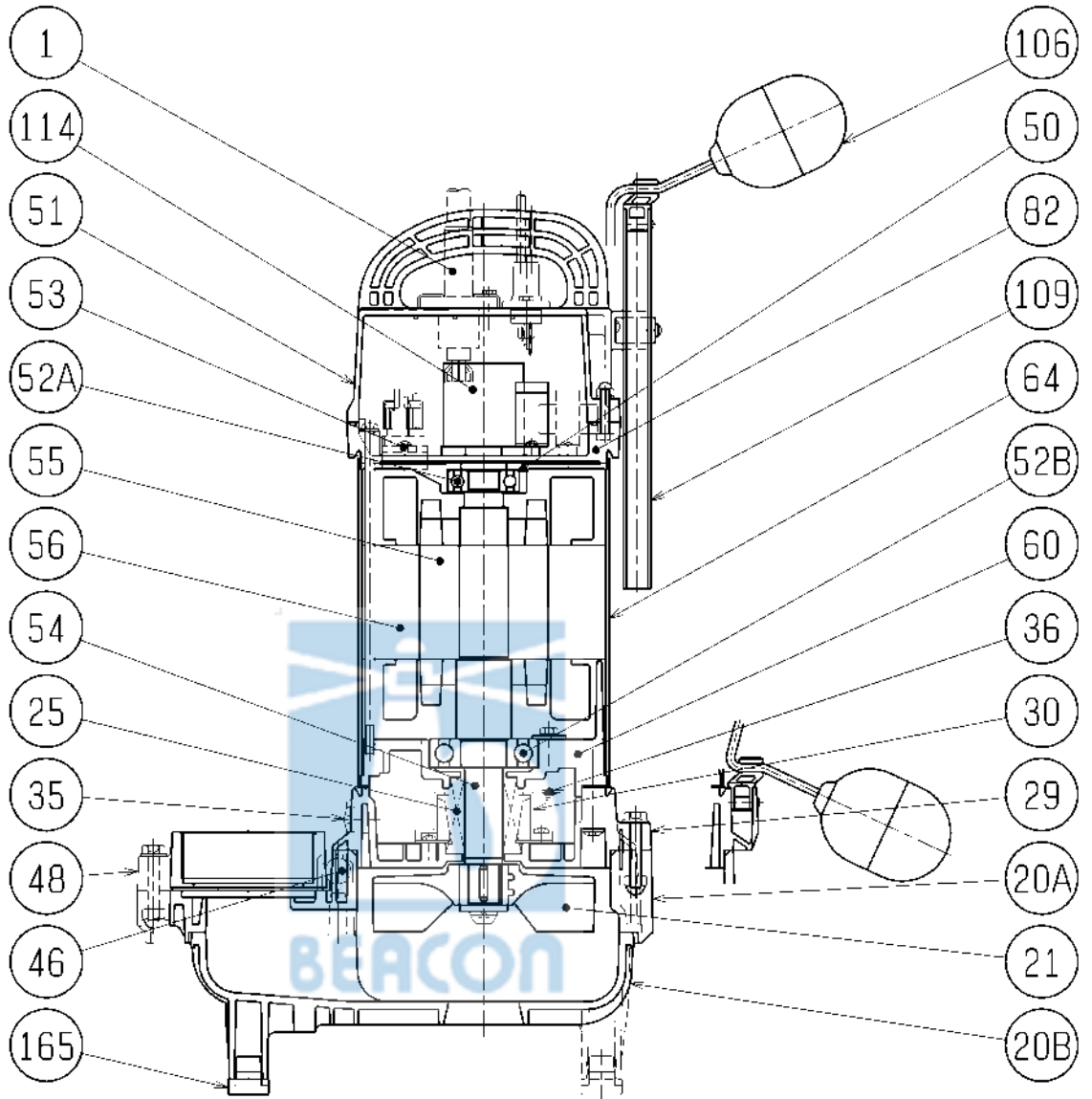
DIMENSION DRAWING		No.	No.	A-20162-1
TYPE	Sewage Submersible Vortex Pump (Automatic)	MODEL	80PUA22. 2 -51/61 80PUA23. 7 -51/61	

MODEL	FL2	H	Approximate Weight (kg)
80PUA22. 2-51/61	791	583	23kg
80PUA23. 7-51/61	826	618	28kg

*excluding cable



SECTIONAL DRAWING		No.	No.	A-20165-1
TYPE	Sewage Submersible Vortex Pump (Automatic)	MODEL	80PUA22.2 -51/61 80PUA23.7 -51/61	



REQ. SPECIFICATION

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

*2 the wetted part

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	52B	Lower Bearing	1	6306ZC3
20A	Upper Pump Casing	*1	Plastic W/GF	53	Motor Protector	1	
20B	Lower Pump Casing	1	Plastic W/GF	54	Shaft	1	Stainless Steel 304(*2)
21	Impeller	1	Plastic W/GF	55	Rotor	1	
25	Mechanical Seal	1	H-25AT	56	Stator	1	
29	Oil Casing	1	Plastic W/GF	60	Bearing Housing	1	Aluminium Alloy Casting
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Stainless Steel 304
35	Oil Plug	1	Stainless Steel 304	82	Head Cover Spacer	1	Plastic W/GF
36	Lubricant		Liquid Paraffin (ISO VG32)	106	Float Set	2	Plastic
46	Air Release Valve	1	Glass Ball	109	Float Support Pipe	1	PVC
48	Screwed Flange	1	Plastic W/GF	114	Relay Unit	1	
50	Motor Bracket	1	Aluminium Alloy Casting	165	Rubber Foot	5	Nitrile Butadien Rubber
51	Head Cover	1	Plastic W/GF				
52A	Upper Bearing	1	6204ZC3				

NO. A-20159-1

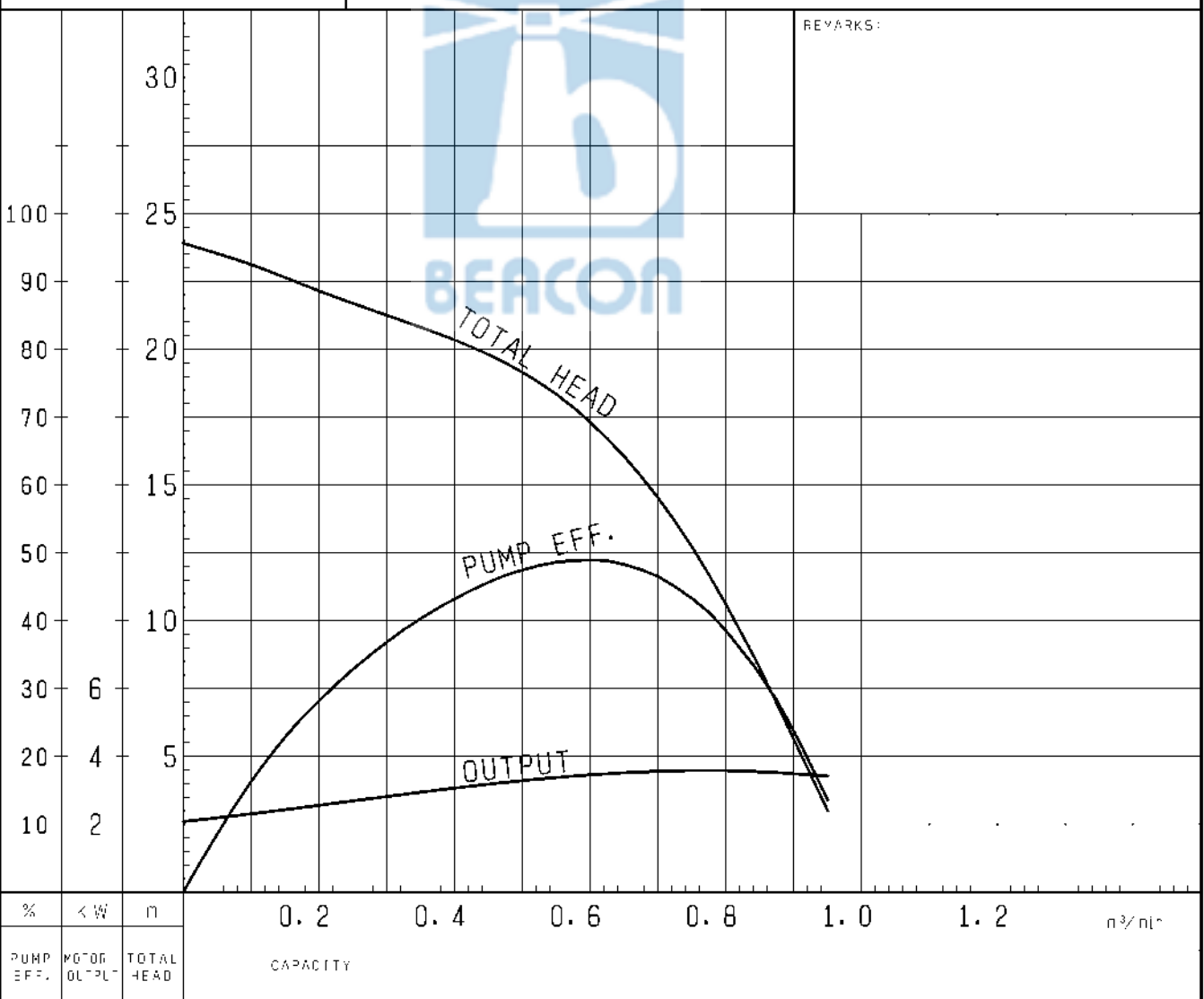
PUMP PERFORMANCE CURVES

TYPE Sewage Submersible Vortex Pump	MODEL 80PU(A/W) 23.7 -51	FREQUENCY 50 Hz
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CUSTOMER'S NAME _____

EQUIPMENT TITLE _____ NO. _____

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	80 mm	mm
TOTAL HEAD	Max. 23.9 m	m
CAPACITY	Max. 0.95 m ³ /min	m ³ /min
MOTOR OUTPUT	3.7 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	

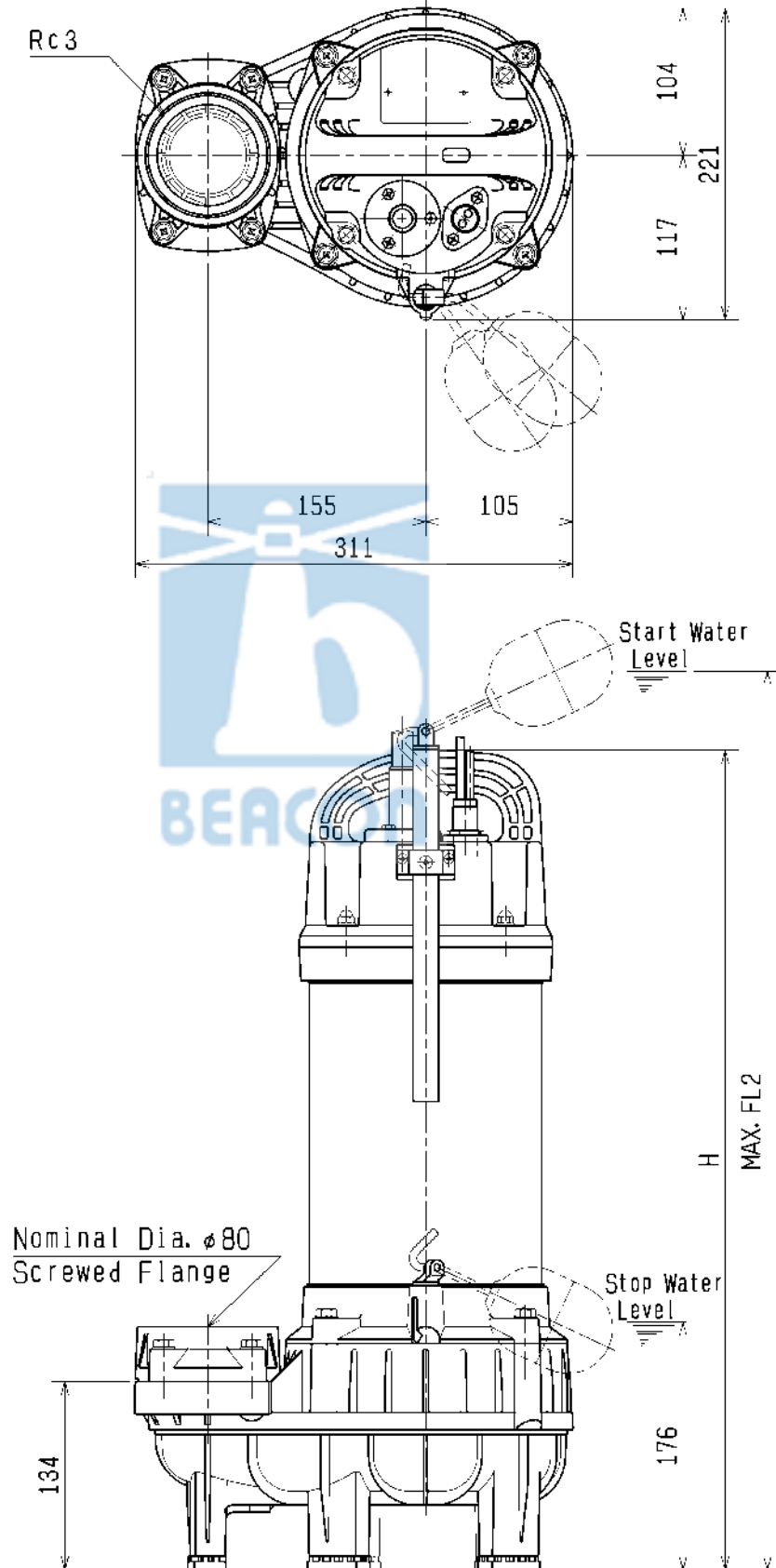


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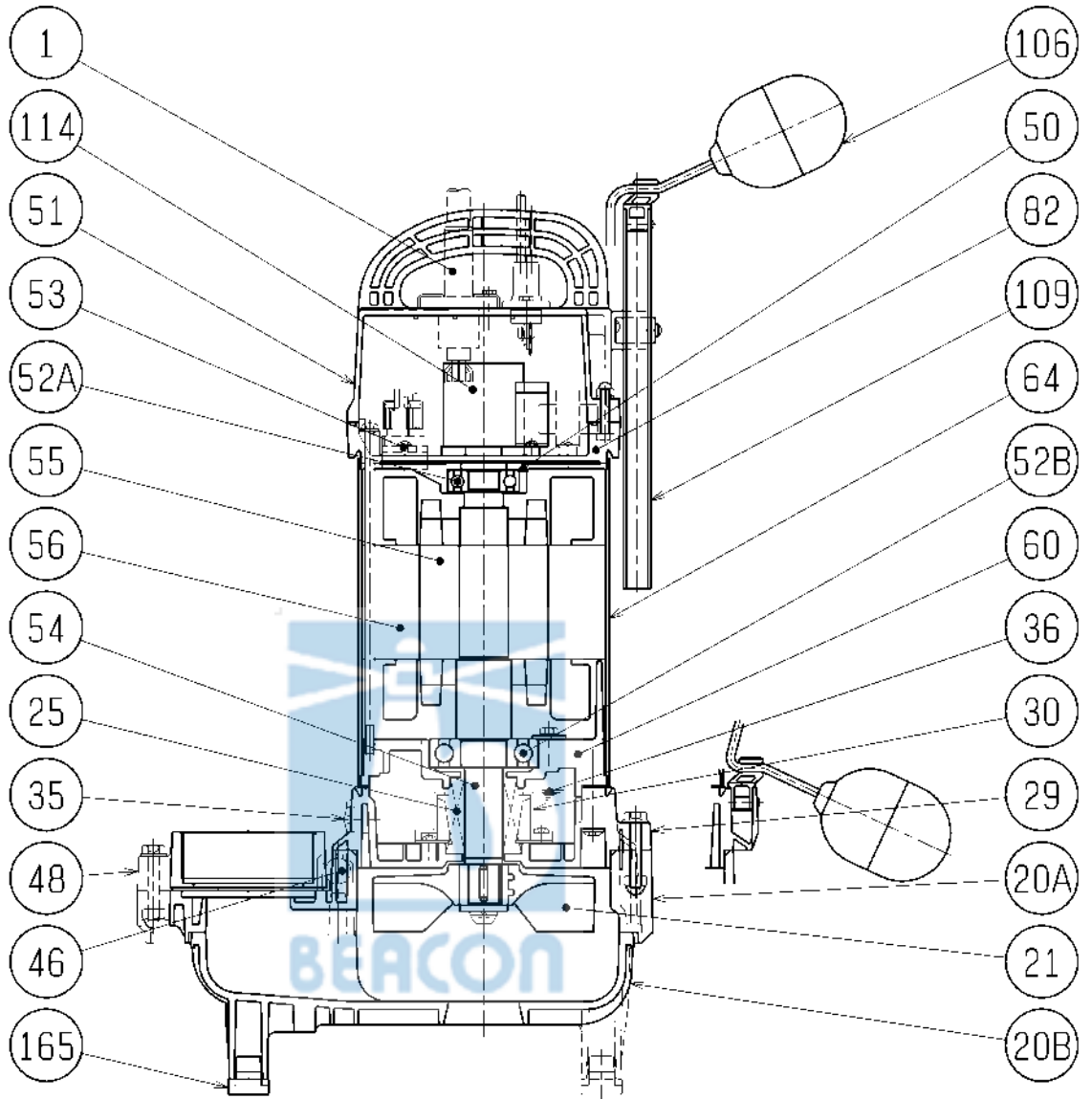
DIMENSION DRAWING		No.	No.
TYPE Sewage Submersible Vortex Pump (Automatic)		MODEL	80PUA22. 2 -51/61 80PUA23. 7 -51/61

MODEL	FL2	H	Approximate Weight (kg)
80PUA22. 2-51/61	791	583	23kg
80PUA23. 7-51/61	826	618	28kg

*excluding cable



SECTIONAL DRAWING		No.	No.	A-20165-1
TYPE	Sewage Submersible Vortex Pump (Automatic)	MODEL	80PUA22.2 -51/61 80PUA23.7 -51/61	



REQ. SPECIFICATION

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

*2 the wetted part

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cable	1	PVC Sheath	52B	Lower Bearing	1	6306ZC3
20A	Upper Pump Casing	*1	Plastic W/GF	53	Motor Protector	1	
20B	Lower Pump Casing	1	Plastic W/GF	54	Shaft	1	Stainless Steel 304(*2)
21	Impeller	1	Plastic W/GF	55	Rotor	1	
25	Mechanical Seal	1	H-25AT	56	Stator	1	
29	Oil Casing	1	Plastic W/GF	60	Bearing Housing	1	Aluminium Alloy Casting
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Stainless Steel 304
35	Oil Plug	1	Stainless Steel 304	82	Head Cover Spacer	1	Plastic W/GF
36	Lubricant		Liquid Paraffin (ISO VG32)	106	Float Set	2	Plastic
46	Air Release Valve	1	Glass Ball	109	Float Support Pipe	1	PVC
48	Screwed Flange	1	Plastic W/GF	114	Relay Unit	1	
50	Motor Bracket	1	Aluminium Alloy Casting	165	Rubber Foot	5	Nitrile Butadien Rubber
51	Head Cover	1	Plastic W/GF				
52A	Upper Bearing	1	6204ZC3				