



VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTE WATER PUMPS

SPECIFICATIONS

FEATURES

1. Semi-vortex , FRP (Fiberglass Reinforced Plastic), impeller passes solids and stringy material without clogging and increases wear resistance when pumpage contains abrasive particles.
2. Double inside mechanical seals with silicon carbide faces, running in an oil filled chamber and further protected by a lip seal, provides for the most durable seal design available.
3. Highly efficient, continuous duty, air filled, copper wound motor with class E, insulation minimizes the cost of operation.
4. Built in thermal & amperage sensing, protector prevents motor failure due to overloading, single phasing (in three phase units), or accidental run -dry conditions.
5. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours, extends operational life.
6. Utilization of application appropriate FRP & stainless steel components increases corrosion resistance in a wide variety of applications.

APPLICATIONS

1. Residential, commercial, industrial sewage, effluent, wastewater and site drainage.
2. Chemical spill containment.
3. Decorative waterfalls, fountains and fish ponds.
4. Raw water supply from rivers or lakes.



SPECIFICATIONS

- Discharge Size
- Horsepower Range
- Performance Range Capacity
- Head
- Maximum water temperature
- Materials of Construction
 - Casing (upper)/(lower)
 - Impeller
 - Shaft
 - Motor Frame
 - Fasteners
- Mechanical Seal
 - Elastomers
- Impeller Type
- Solids Handling Capability
- Bearings
- Motor Nomenclature
 - Type, Speed, Hz.
 - Voltage, Phase
 - Insulation
- Accessories
- Operational Mode

STANDARD

- 2~3" N.P.T. (50 ~ 80mm)
- 1/5 ~ 2Hp. (.2 ~ 1.5 KW)
- 14 ~ 211 G.P.M.. (.055 ~ .75 m³/min)
- 7 Ft. ~ 38 Ft. (2.1 ~ 11.6 m)
- 140° F. (60° C.)
- FRP (ABS + G20) / ABS
- FRP (PPO + G20)
- 403 Stainless Steel
- 304 Stainless Steel
- 304 Stainless Steel
- Silicon Carbide
- NBR (Nitril Buna Rubber)
- Semi-Vortex, solids handling.
- 1 ½"~1.81" (38 mm~46 mm)
- Pre-lubricated, Double Shielded
- Air Filled, 3600 Rpm, 60 Hz.
- 115 or 230 V., 1 Ph., 230 or 460 V. 3 Ph.
- Class E
- Submersible Power Cable 32' (10 m)

OPTIONS

- Nema 3R inverter available for 230 V., 1 Ph. operation for 2 Hp.
- Length as Required
- Model A (Automatic), Model AW (Automatic Alternating)
- TOK (FRP) Slide rail system

Revolutionary Materials And Design Features Makes The Vancs PU Unique Among Corrosion Resistant Pumps

ONE PIECE MOLDED CABLE ENTRANCE INCORPORATES:

① CABLE BOOT

Prevents kinking at cable entrance by extending bending radius.

② ANTI-WICKING BLOCK

Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged.

③ LIMITED TIGHTENING PLATE

Prevents over tightening of boot compression screws.

Provides strain relief.

HIGHLY EFFICIENT AIR FILLED MOTOR INCORPORATES:

④ PERMANENTLY LUBRICATED, DOUBLE SHIELDED, SINGLE ROW, DEEP GROVE, HIGH TEMPERATURE C3, BALL BEARINGS RATED, B-10 = 60,000 HRS.

⑤ COPPER WINDINGS WITH CLASS E INSULATION

Operates at lower temperatures, Extending insulation and bearing life.

⑥ PUMP END DESIGNED TO BE HYDRAULICALLY CORRECT, FOR A WIDE VARIETY OF APPLICATIONS:

Low internal velocities extends life of impeller and volute.

⑦ BUILT IN BALL CHECK AIR RELIEF VALVE: prevents air locking.

⑧ Semi-vortex Impeller:

Handles long stringy materials and large diameter solids.

⑨ APPLICATION APPROPRIATE RESIN AND FIBERGLASS (FRP):

Resistant to High or low temperatures, impact, chemicals and corrosion.

⑩ CIRCLE THERMAL MOTOR PROTECTOR:

Protects against, over amperage, overheating, run-dry.

⑪ STAINLESS STEEL MOTOR FRAME, SHAFT & FASTENERS:

Provides protection against corrosion.

⑫ MOLDED-IN STAINLESS STEEL ANCHORS FOR EACH FASTENER:

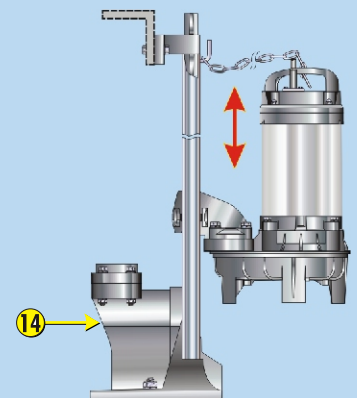
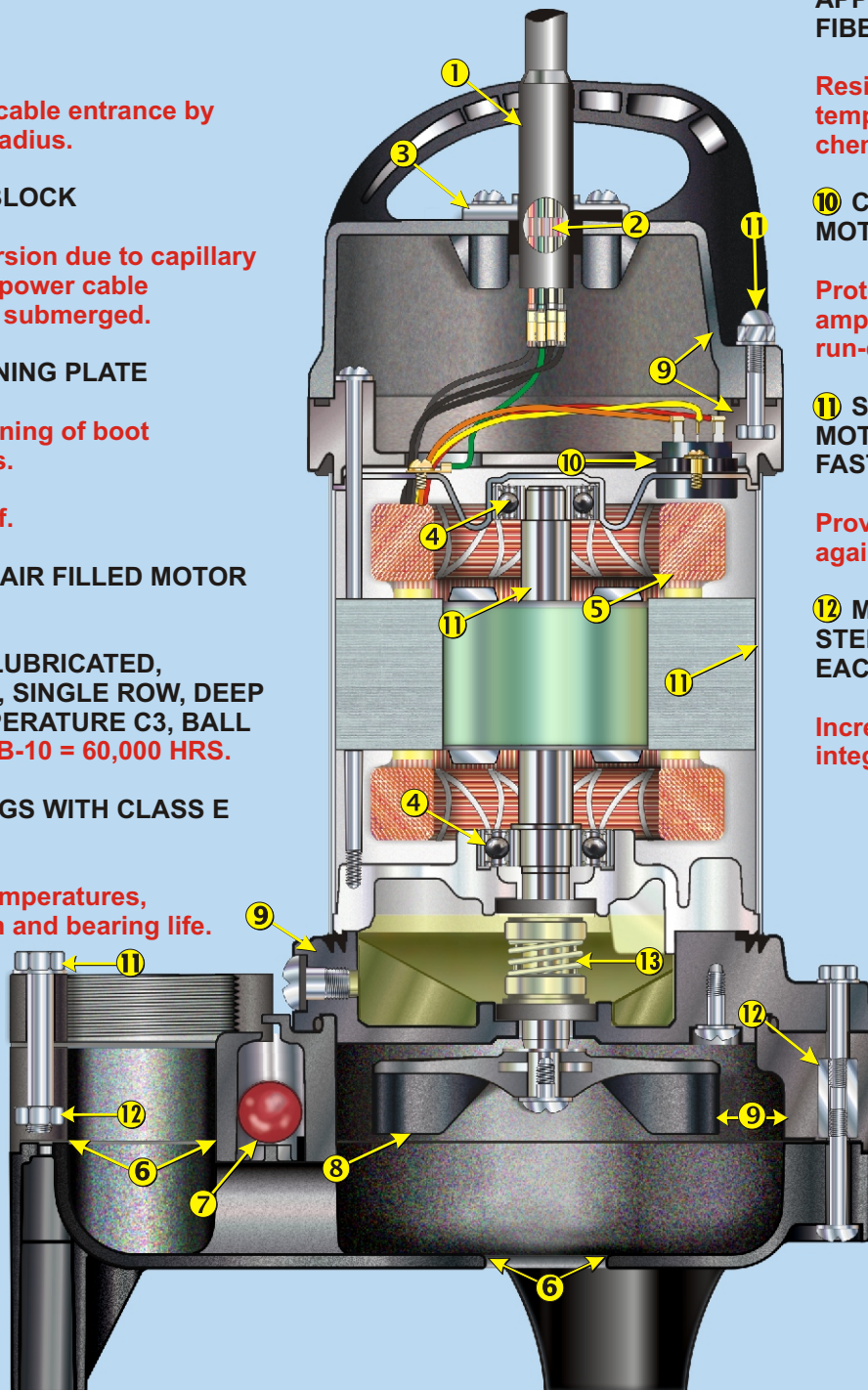
Increases structural integrity.

⑬ DOUBLE INSIDE MECHANICAL SEAL WITH SILICON CARBIDE FACES:

Assures the longest operational life of any seal available.

⑭ OPTIONAL, TOK SLIDE RAIL SYSTEM:

Allows for quick removal of pump unit for maintenance or Winterizing.



NEW MODEL NAME - VANCS-PU-series

Non-Automatic Type

New Model Name	Old Model Name
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Free Standing

1phase , 1/5HP
 3phase , 1/5HP
 1phase , 1/3HP
 3phase , 1/3HP
 1phase , 1/2HP
 3phase , 1/2HP
 1phase , 1HP
 3phase , 1HP
 3phase , 2HP

50PU2.15S	2-PU
50PU2.15	2-PUT
50PU2.25S	3-PU
50PU2.25	3-PUT
50PU2.4S	4-PU
50PU2.4	4-PUT
50PU2.75S	8-PU
50PU2.75	8-PUT
80PU21.5	15-PUT

Guide Rail Fitting

1phase , 1/5HP
 3phase , 1/5HP
 1phase , 1/3HP
 3phase , 1/3HP
 1phase , 1/2HP
 3phase , 1/2HP
 1phase , 1HP
 3phase , 1HP
 3phase , 2HP

TOK50PU2.15S	TOK-2PU
TOK50PU2.15	TOK-2PUT
TOK50PU2.25S	TOK-3PU
TOK50PU2.25	TOK-3PUT
TOK50PU2.4S	TOK-4PU
TOK50PU2.4	TOK-4PUT
TOK50PU2.75S	TOK-8PU
TOK50PU2.75	TOK-8PUT
TOK80PU21.5	TOK-15PUT

Automatic Type

New Model Name	Old Model Name
----------------	----------------

Free Standing

50PUA2.15S	2-PUA
50PUA2.15	2-PUAT
50PUA2.25S	3-PUA
50PUA2.25	3-PUAT
50PUA2.4S	4-PUA
50PUA2.4	4-PUAT
50PUA2.75S	8-PUA
50PUA2.75	8-PUAT
80PUA21.5	15-PUAT

Guide Rail Fitting

TOK50PUA2.15S	TOK-2PUA
TOK50PUA2.15	TOK-2PUAT
TOK50PUA2.25S	TOK-3PUA
TOK50PUA2.25	TOK-3PUAT
TOK50PUA2.4S	TOK-4PUA
TOK50PUA2.4	TOK-4PUAT
TOK50PUA2.75S	TOK-8PUA
TOK50PUA2.75	TOK-8PUAT
TOK80PUA21.5	TOK-15PUAT

Automatic-Alternate Type

New Model Name	Old Model Name
----------------	----------------

Free Standing

50PUW2.15S	2-PUW
50PUW2.15	2-PUWT
50PUW2.25S	3-PUW
50PUW2.25	3-PUWT
50PUW2.4S	4-PUW
50PUW2.4	4-PUWT
50PUW2.75S	8-PUW
50PUW2.75	8-PUWT
80PUW21.5	15-PUWT

Guide Rail Fitting

TOK50PUW2.15S	TOK-2PUW
TOK50PUW2.15	TOK-2PUWT
TOK50PUW2.25S	TOK-3PUW
TOK50PUW2.25	TOK-3PUWT
TOK50PUW2.4S	TOK-4PUW
TOK50PUW2.4	TOK-4PUWT
TOK50PUW2.75S	TOK-8PUW
TOK50PUW2.75	TOK-8PUWT
TOK80PUW21.5	TOK-15PUWT

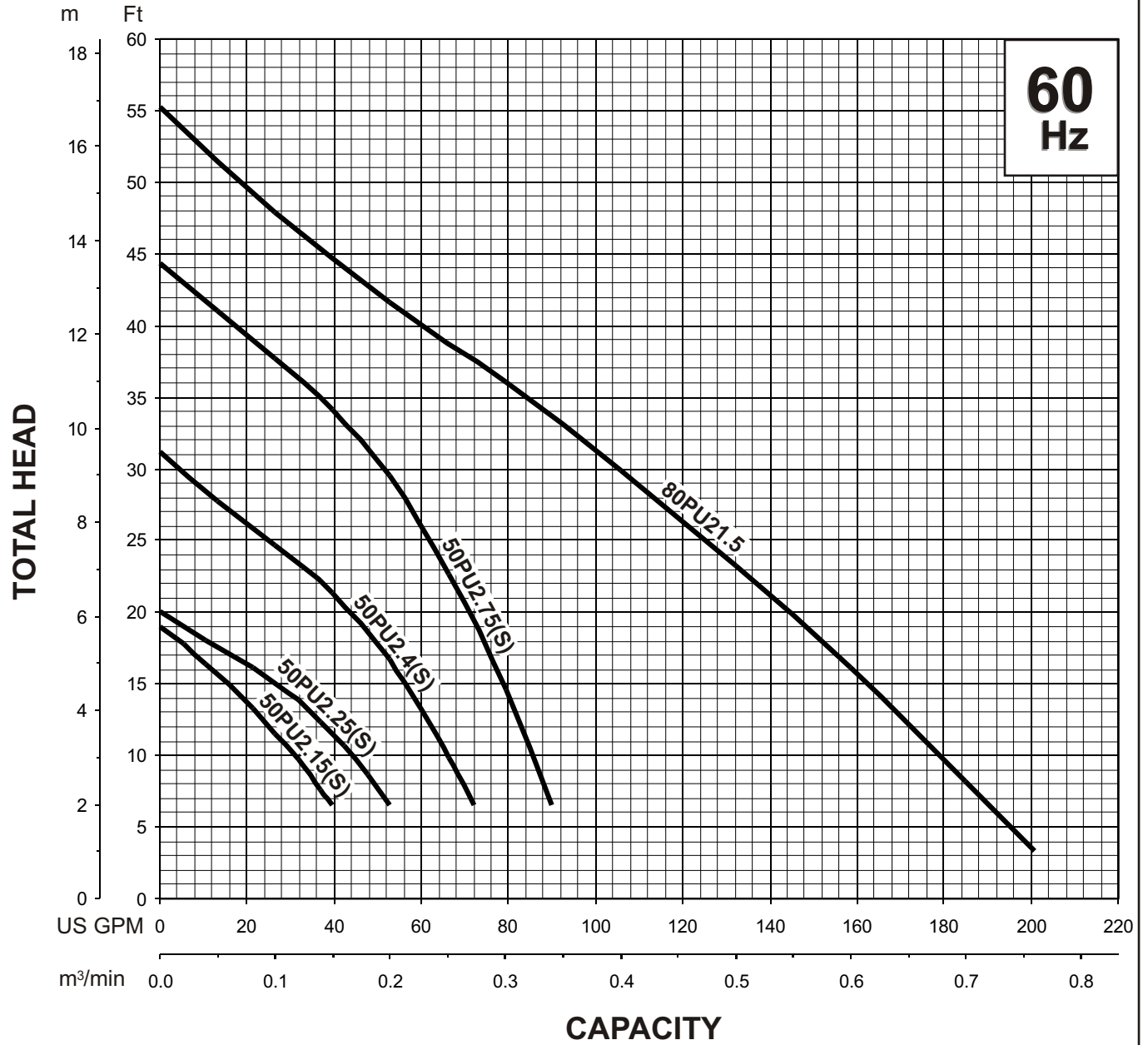


TSURUMI PUMP

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PERFORMANCE RANGE

PERFORMANCE RANGE

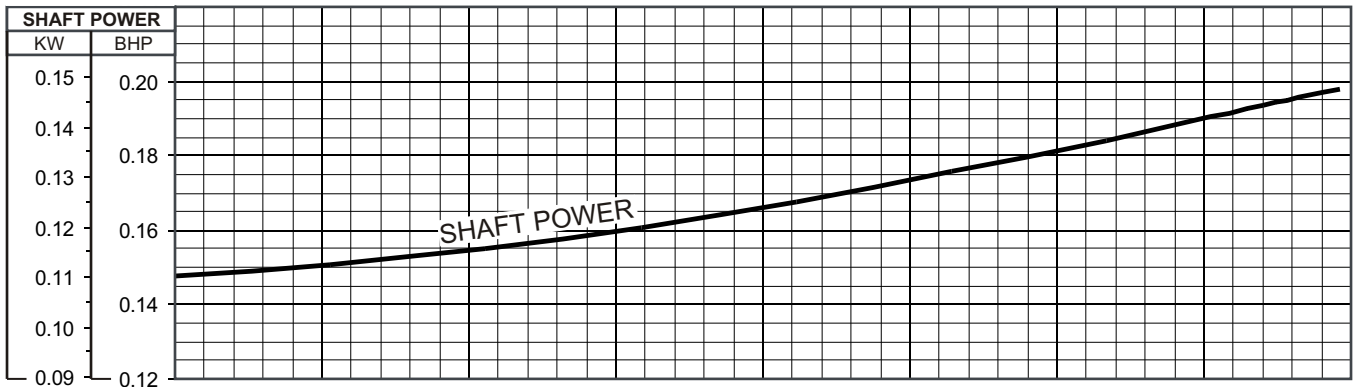
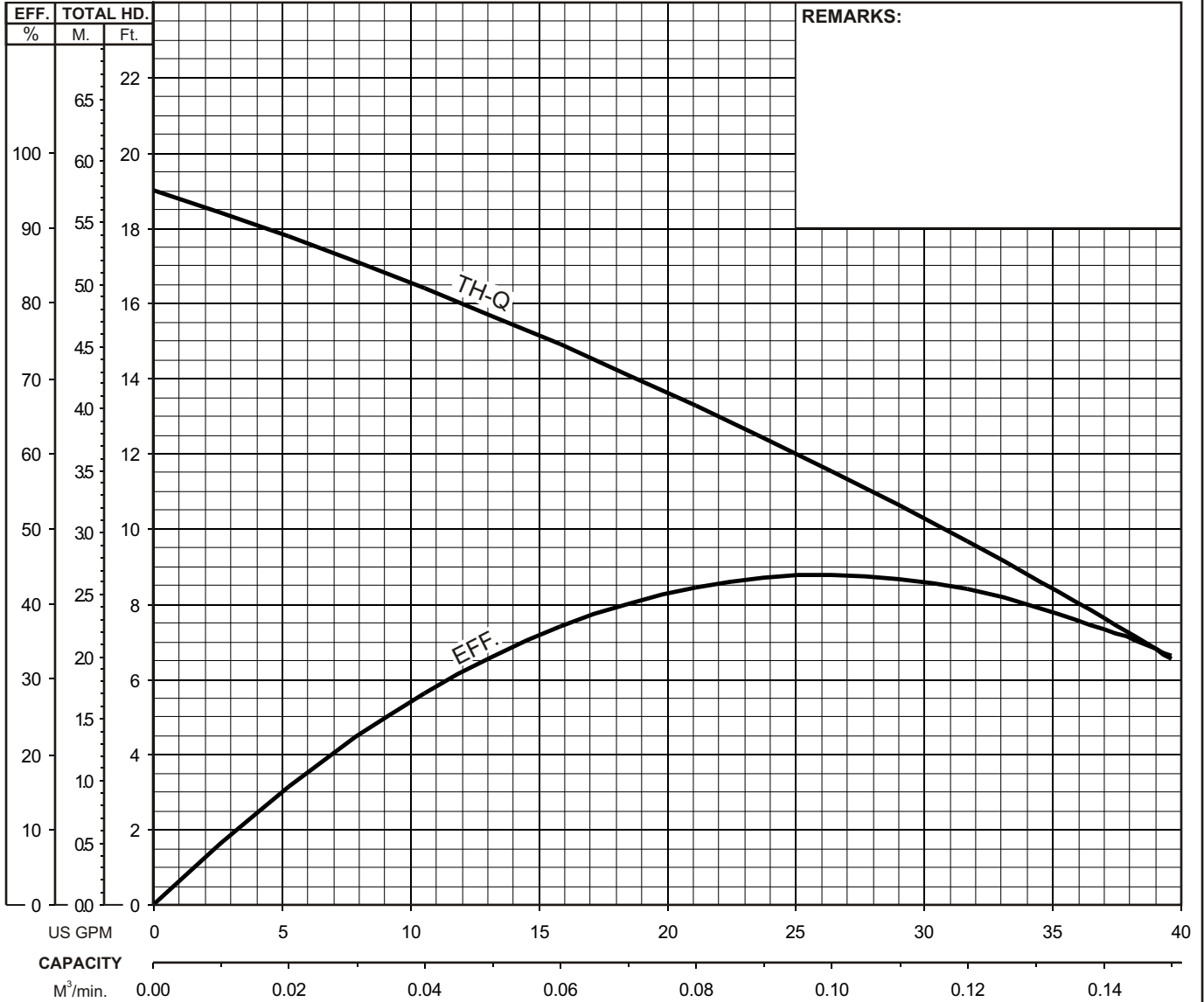




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PERFORMANCE
CURVE

MODEL	BORE	HP	KW	RPM	SOLIDS DIA	LIQUID	SG.	VISCOSITY	TEMP.
50PU(A/W)2.15S	2"/50mm	0.2	0.15	3393	1.38"/35mm	Water	1.0	1.81 CST	60°F
PUMP TYPE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS			
Semi-Vortex - Sewage & Wastewater	Single	115 / 230	3.6 / 1.8	60	Capacitor-Start	E			
CURVE No.	DATE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS		
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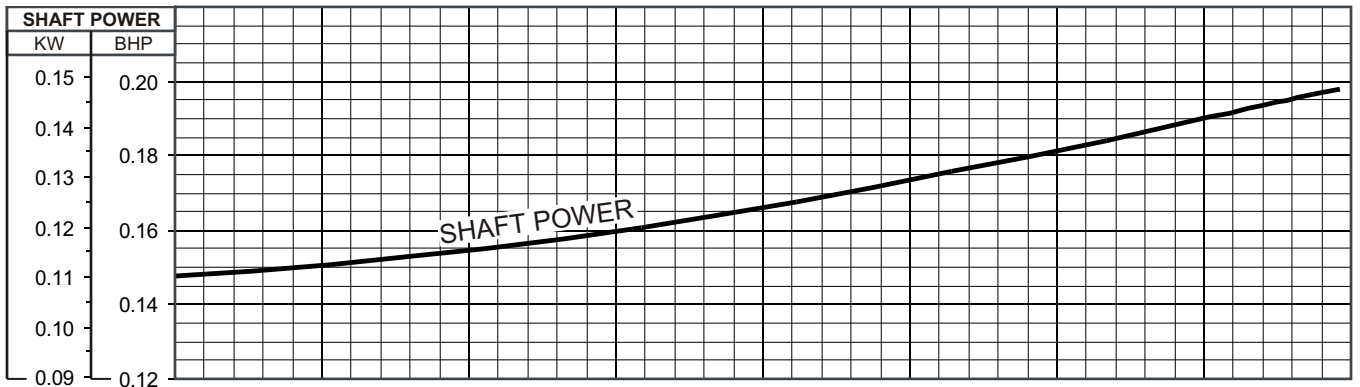
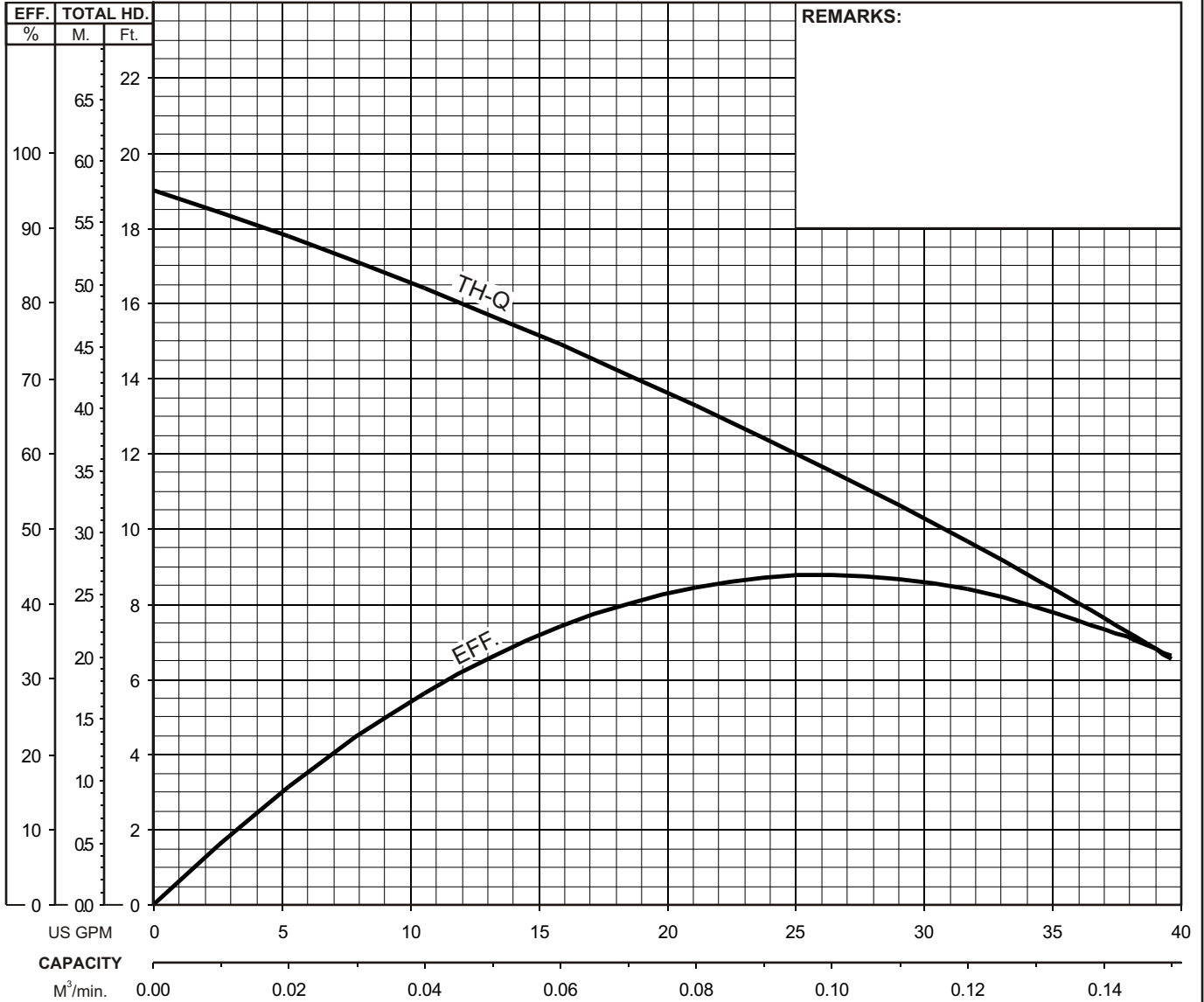




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PERFORMANCE
CURVE

MODEL	BORE	HP	KW	RPM	SOLIDS DIA	LIQUID	SG.	VISCOSITY	TEMP.
50PU(A/W)2.15	2"/50mm	0.2	0.15	3600	1.5"/38mm	Water	1.0	1.81 CST	60°F
PUMP TYPE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS			
Semi-Vortex - Sewage & Wastewater	3	208 / 230 / 460	1.2 / 1.1 / 0.55	60	Direct On Line	E			
CURVE No.	DATE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS		
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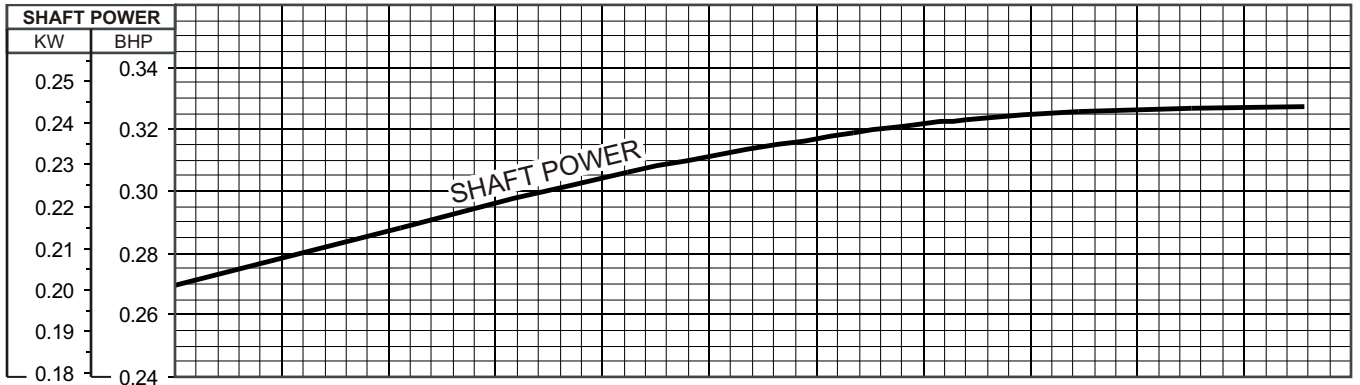
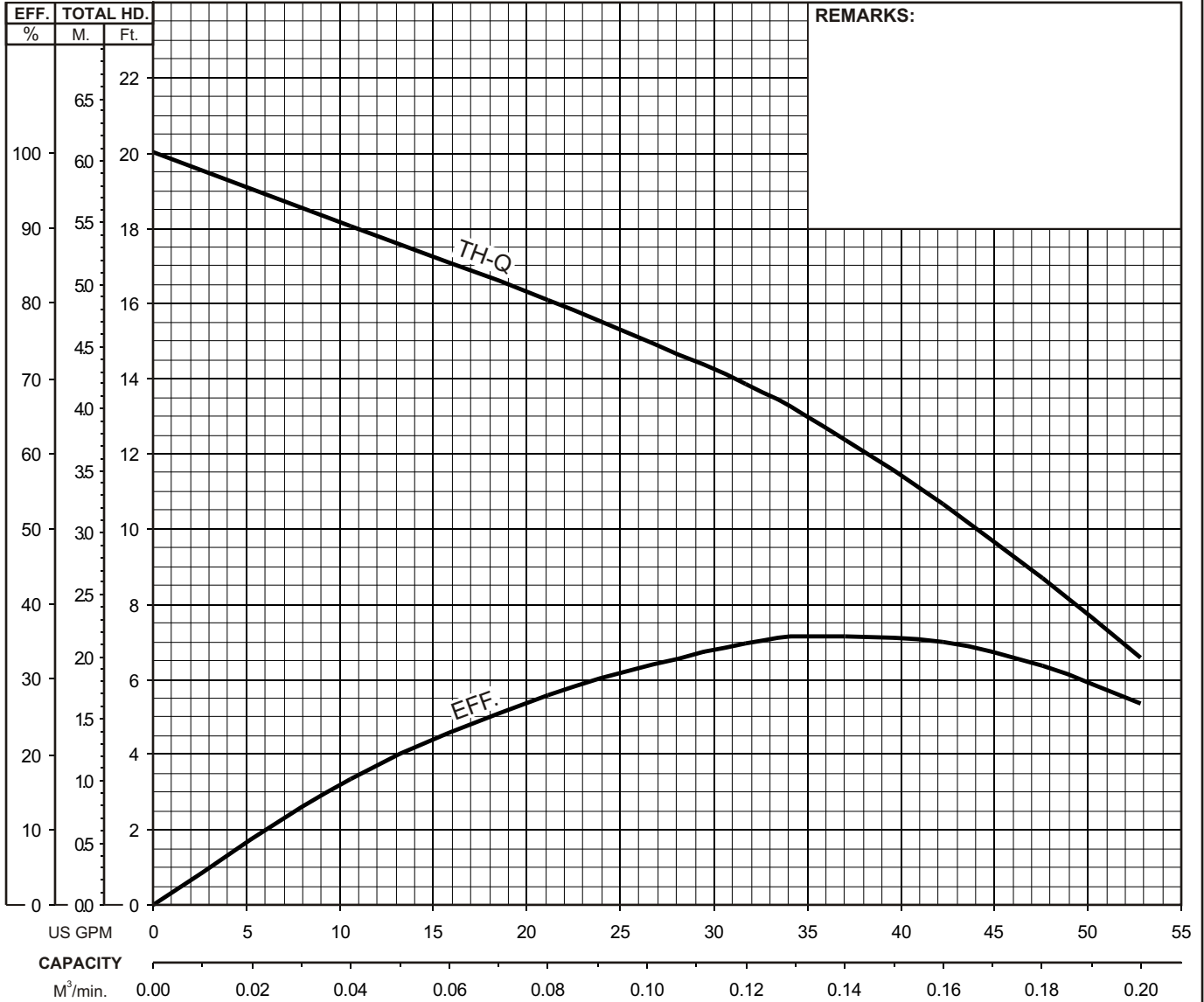




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PERFORMANCE
CURVE

MODEL	BORE	HP	KW	RPM	SOLIDS DIA	LIQUID	SG.	VISCOSITY	TEMP.
50PU(A/W)2.25S	2"/50mm	0.34	0.25	3600	1.38"/35mm	Water	1.0	1.81 CST	60°F
PUMP TYPE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS			
Semi-Vortex - Sewage & Wastewater	Single	115 / 230	4.8 / 2.4	60	Capacitor-Start	E			
CURVE No.	DATE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS		
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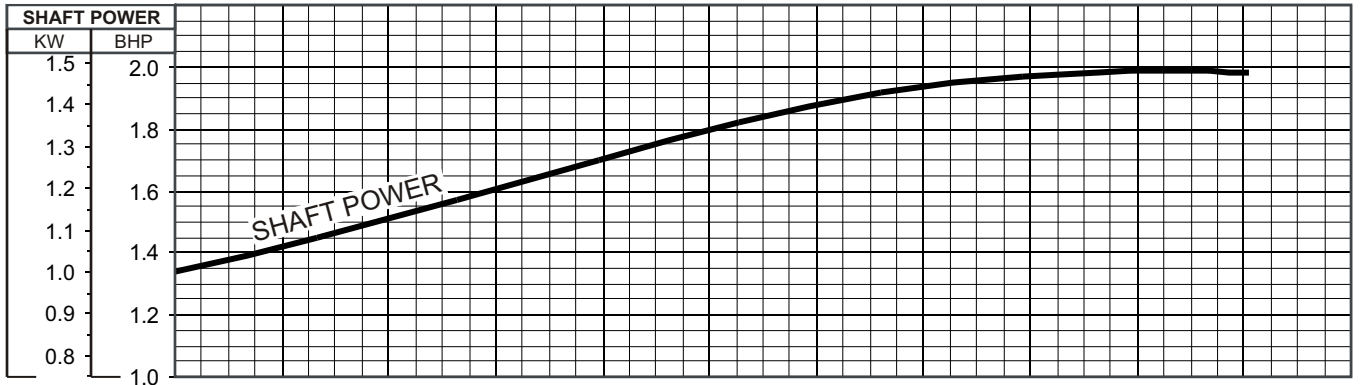
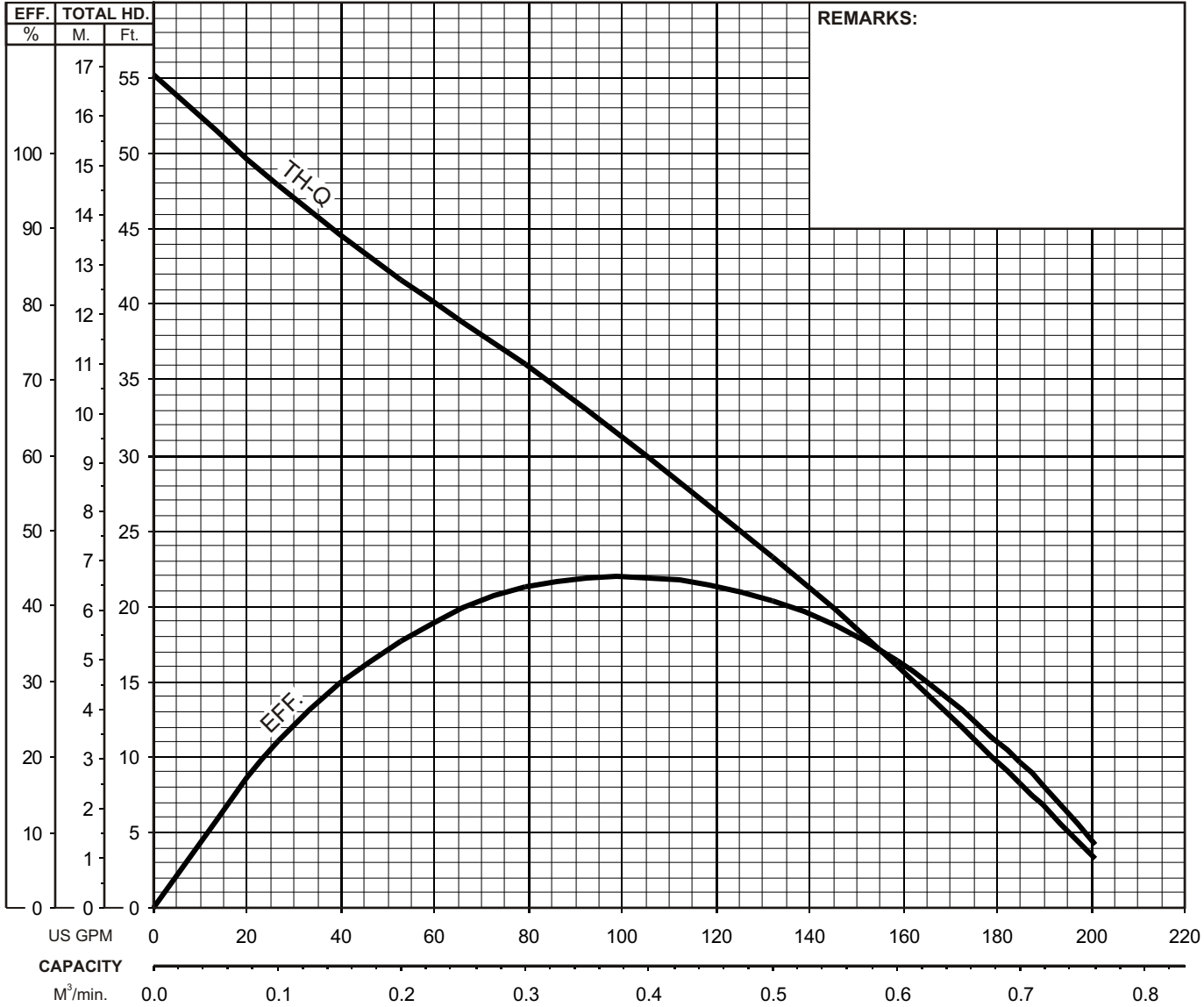




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PERFORMANCE
CURVE

MODEL	BORE	HP	KW	RPM	SOLIDS DIA	LIQUID	SG.	VISCOSITY	TEMP.
80PU(A/W)21.5	3"/80mm	2	1.5	3455	1.81"/46mm	Water	1.0	1.81 CST	60°F
PUMP TYPE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS			
Semi-Vortex - Sewage & Wastewater	3	208/230/460	6.8/6.2/3.1	60	Direct On Line	E			
CURVE No.	DATE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS		
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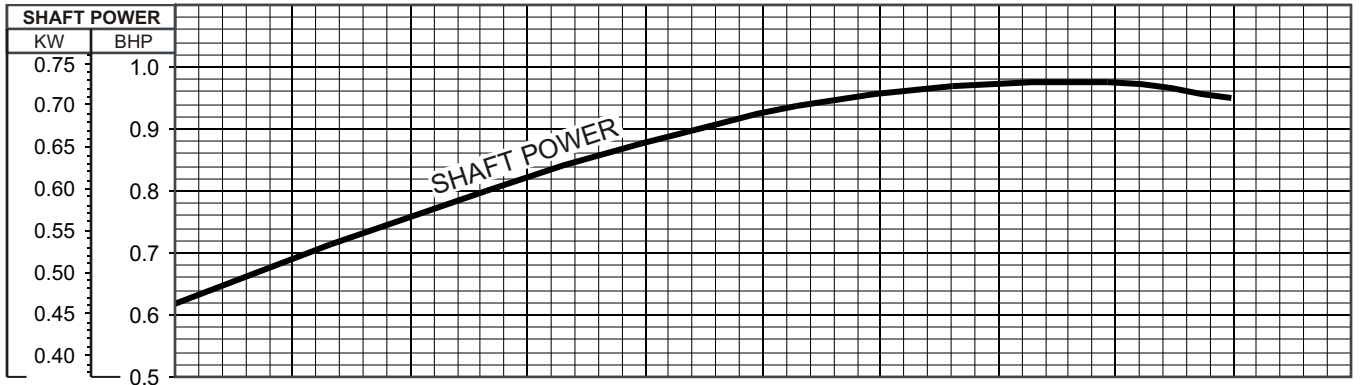
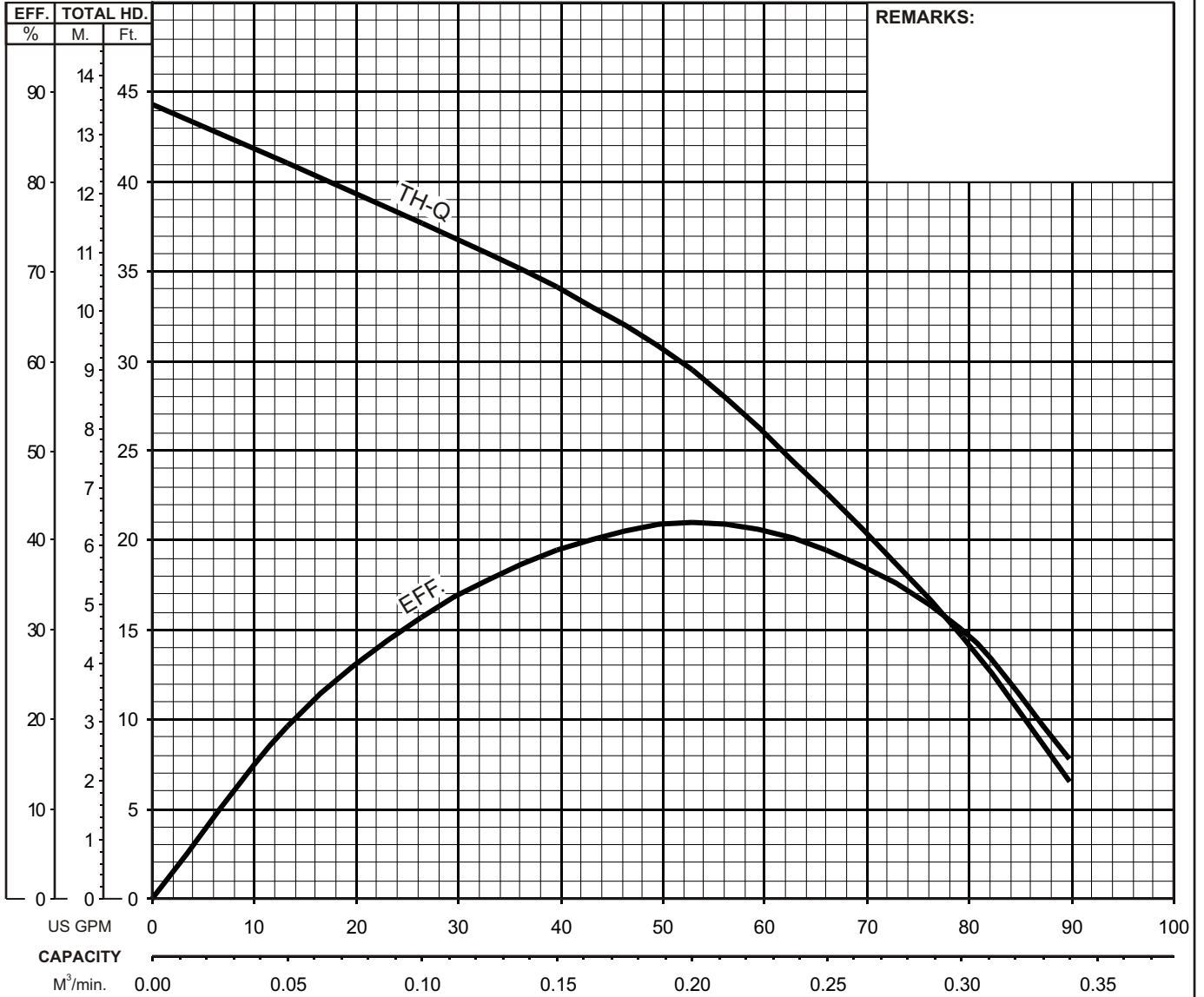




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PERFORMANCE
CURVE

MODEL	BORE	HP	KW	RPM	SOLIDS DIA	LIQUID	SG.	VISCOSITY	TEMP.
50PU(A/W)2.75	2"/50mm	1	0.75	3415	1.38"/35mm	Water	1.0	1.81 CST	60°F
PUMP TYPE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS			
Semi-Vortex - Sewage & Wastewater	3	208 / 230 / 460	3.5 / 3.4 / 1.7	60	Direct On Line	E			
CURVE No.	DATE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS		
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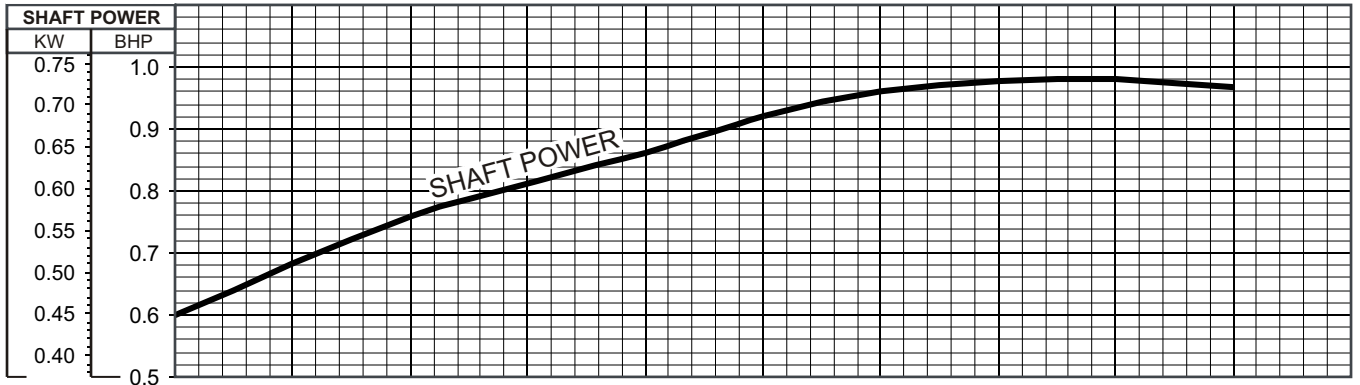
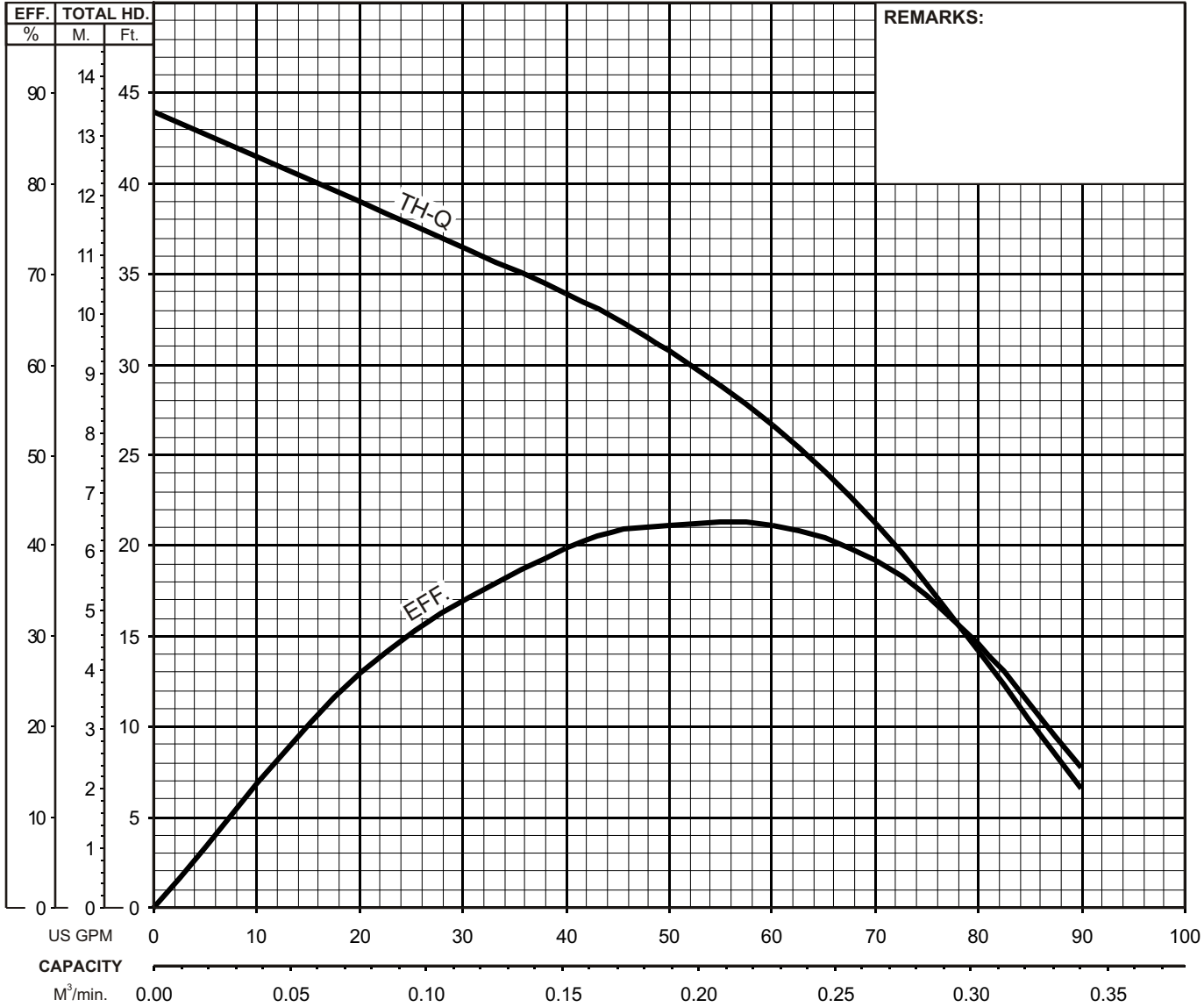




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PERFORMANCE
CURVE

MODEL	BORE	HP	KW	RPM	SOLIDS DIA	LIQUID	SG.	VISCOSITY	TEMP.
50PU(A/W)2.75S	2"/50mm	1	0.75	3420	1.38"/35mm	Water	1.0	1.81 CST	60°F
PUMP TYPE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS			
Semi-Vortex - Sewage & Wastewater	Single	115 / 230	8.6 / 4.8	60	Capacitor-Start	E			
CURVE No.	DATE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS		
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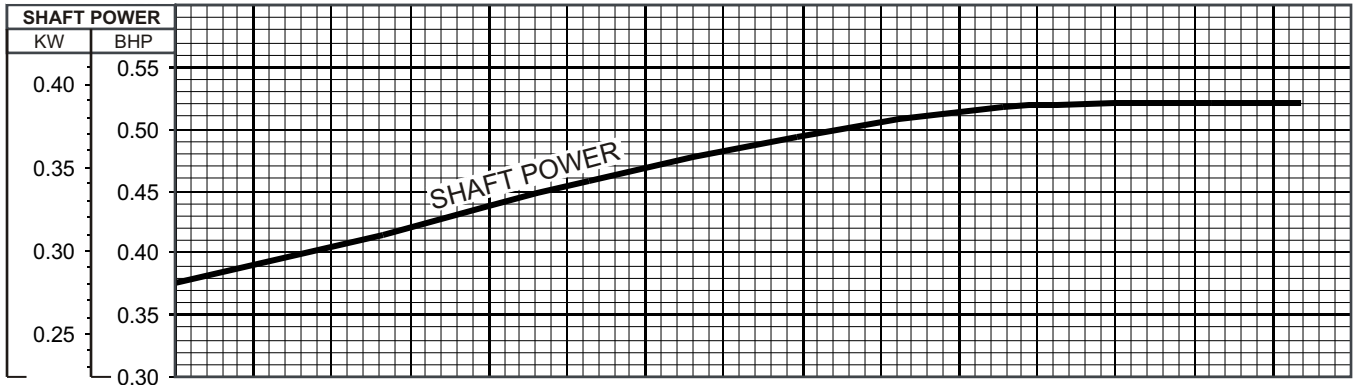
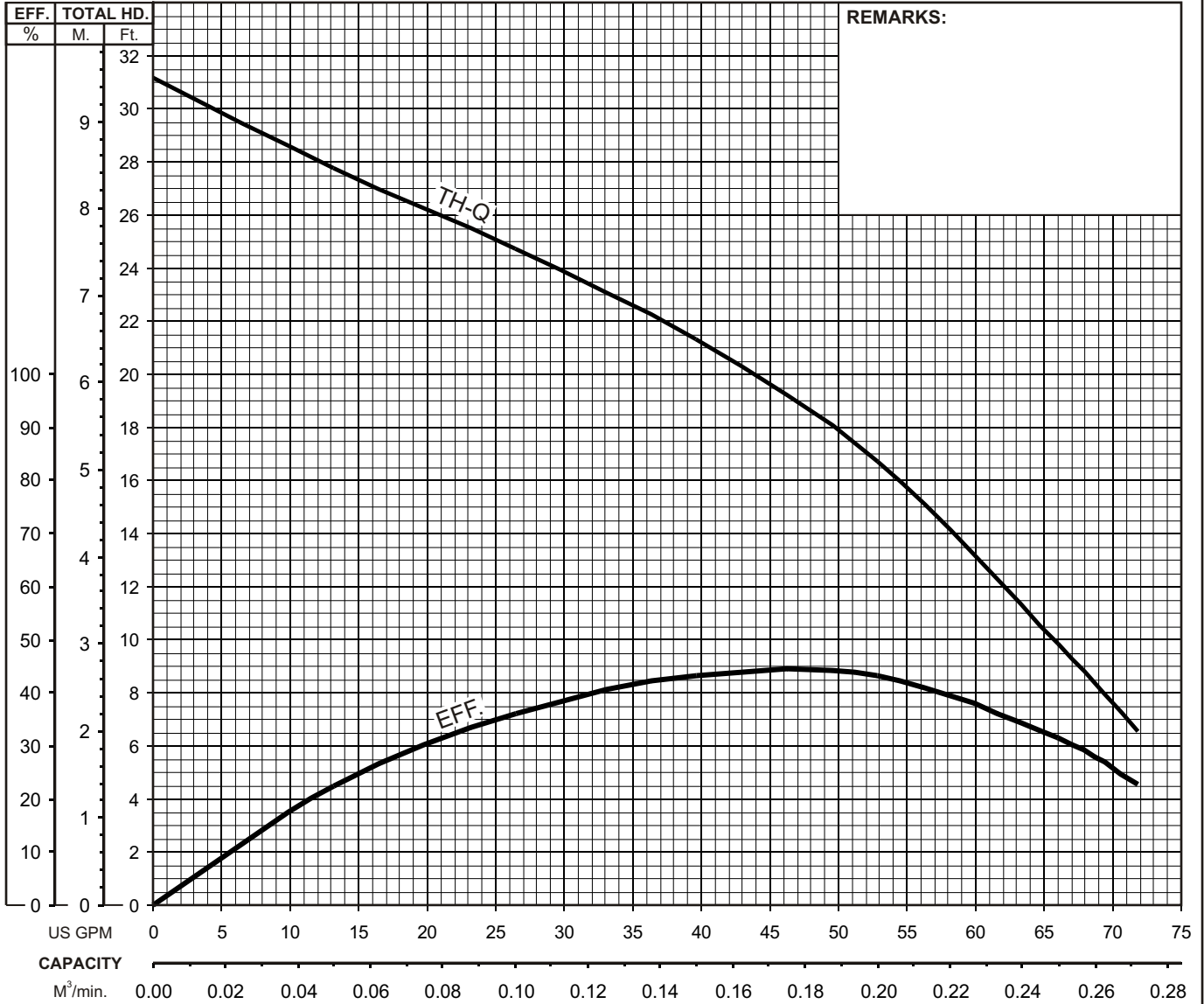




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PERFORMANCE
CURVE

MODEL	BORE	HP	KW	RPM	SOLIDS DIA	LIQUID	SG.	VISCOSITY	TEMP.
50PU(AW)2.4	2"/50mm	0.54	0.40	3420	1.38"/35mm	Water	1.0	1.81 CST	60°F
PUMP TYPE	PHASE	VOLTAGE		AMPERAGE		HZ	STARTING METHOD		INS. CLASS
Semi-Vortex - Sewage & Wastewater	3	208 / 230 / 460		2.2 / 2.1 / 1.0		60	Direct On Line		E
CURVE No.	DATE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD		INS. CLASS	
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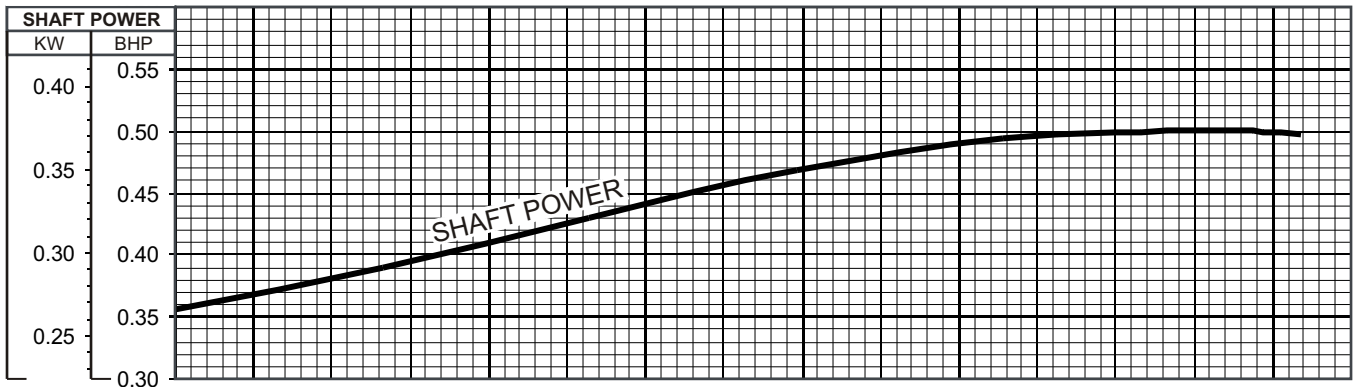
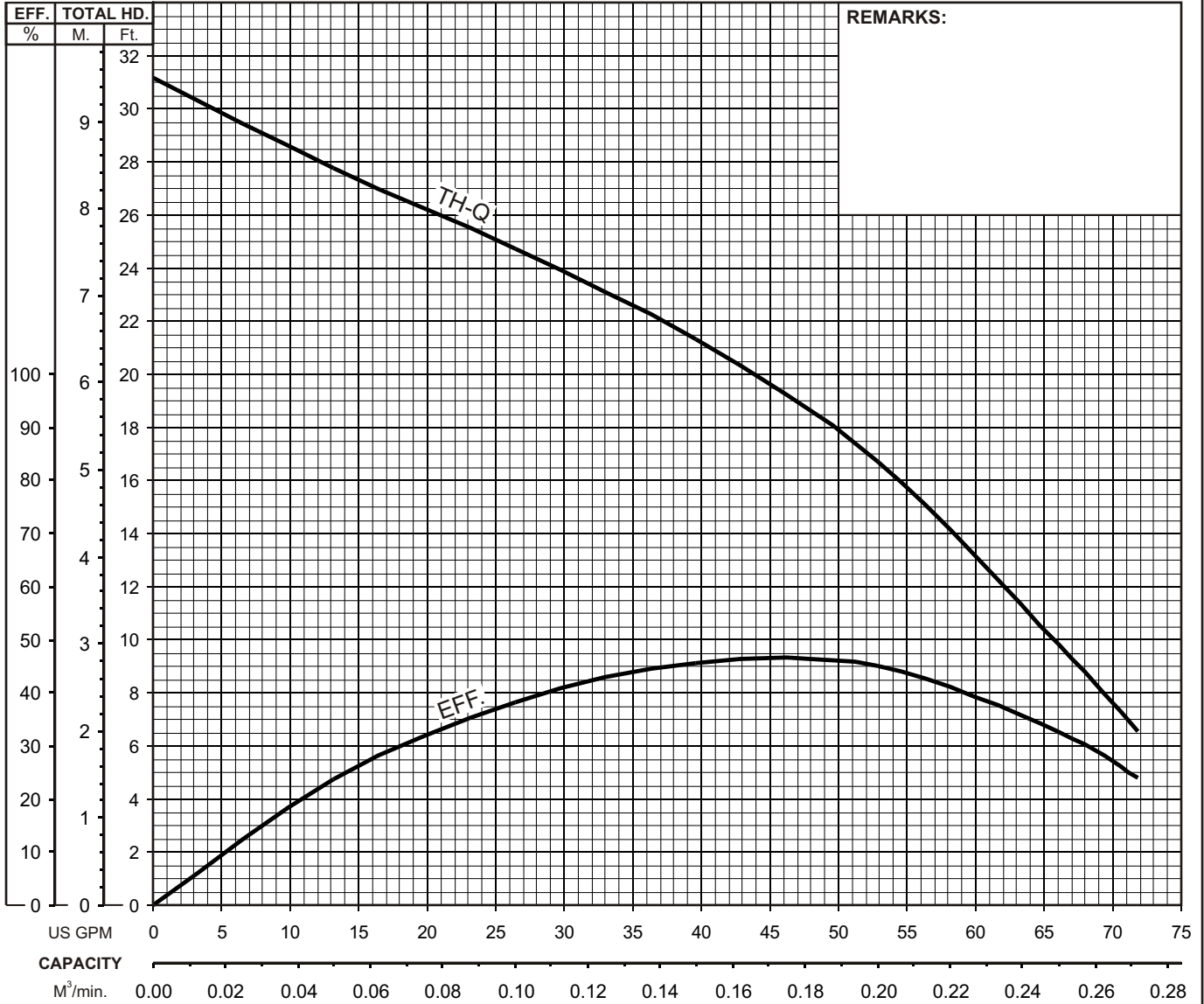




VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

PERFORMANCE
CURVE

MODEL	BORE	HP	KW	RPM	SOLIDS DIA	LIQUID	SG.	VISCOSITY	TEMP.
50PU(A/W)2.4S	2"/50mm	0.54	0.40	3420	1.38"/35mm	Water	1.0	1.81 CST	60°F
PUMP TYPE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS			
Semi-Vortex - Sewage & Wastewater	Single	115 / 230	6.4 / 3.3	60	Capacitor-Start	E			
CURVE No.	DATE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD	INS. CLASS		
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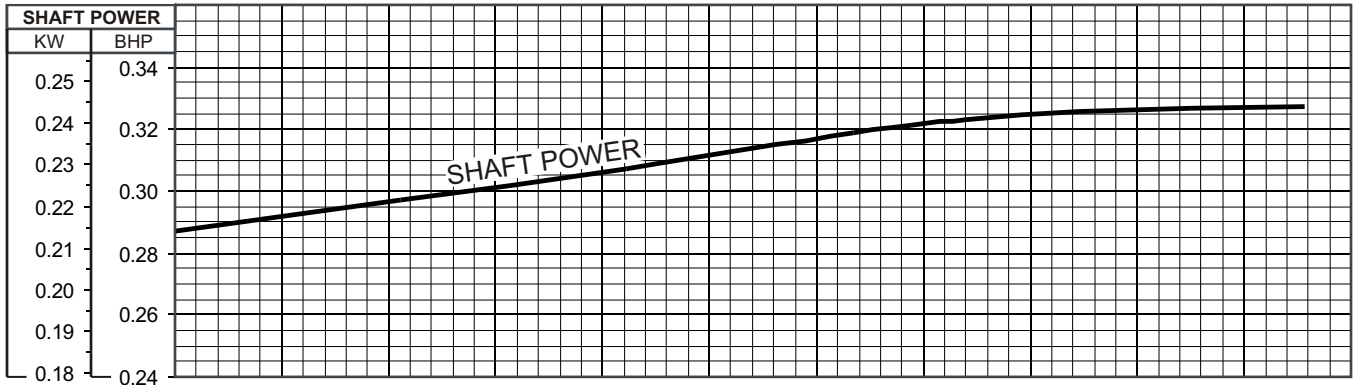
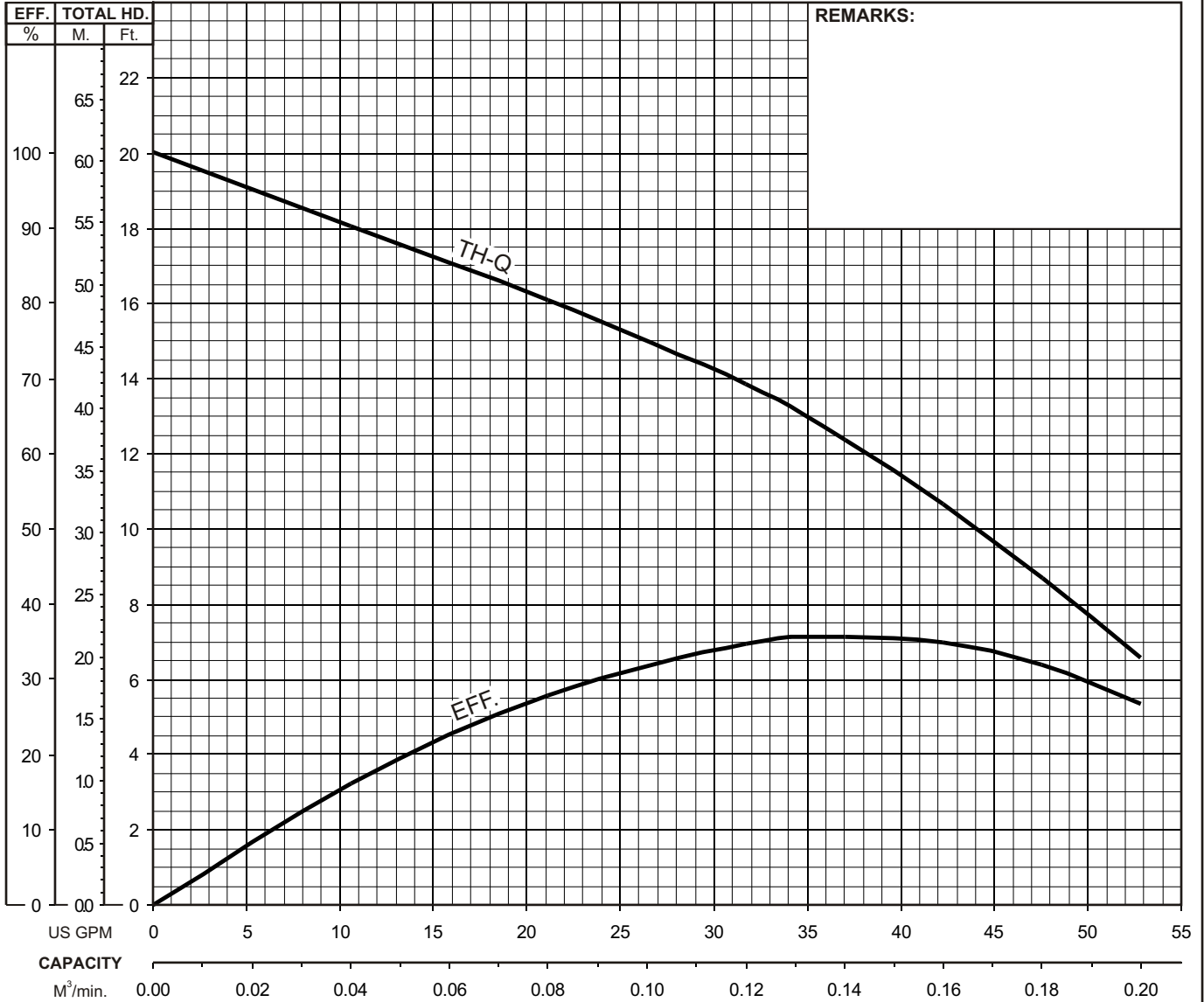




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PERFORMANCE
CURVE

MODEL	BORE	HP	KW	RPM	SOLIDS DIA	LIQUID	SG.	VISCOSITY	TEMP.
50PU(A/W)2.25	2"/50mm	0.34	0.25	3600	1.38"/35mm	Water	1.0	1.81 CST	60°F
PUMP TYPE	PHASE	VOLTAGE		AMPERAGE		HZ	STARTING METHOD		INS. CLASS
Semi-Vortex - Sewage & Wastewater	3	208 / 230 / 460		1.6 / 1.5 / 0.75		60	Direct On Line		E
CURVE No.	DATE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD		INS. CLASS	
-	-	-	-	-	-	-		-	




TSURUMI PUMP
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS
SAMPLE
SPECIFICATIONS
1. SCOPE OF SUPPLY -

Furnish and install TSURUMI, VANCS Model _____ Submersible Pump(s). Each unit shall be capable of delivering _____ GPM(_____ m³/min) at _____ Feet (_____ m) TDH. The pump(s) shall be designed to pump waste water, sewage or effluent containing _____ inch (_____ mm) diameter solids without damage during operation. The pump(s) shall be designed so that the shaft power required (BHP)/(kW) shall not exceed the motor rated output throughout the entire operating range of the pump performance curve.

2. MATERIALS OF CONSTRUCTION -

Construction of major parts of the pumping unit(s) including pump casing, impeller, motor head cover and intermediate brackets shall be manufactured from recyclable, application appropriate resins. The need for a protective coating shall not be required. All exposed fasteners shall be stainless steel and shall have stainless steel mating anchors integrally cast into the mating part. All units shall be furnished with a NPT discharge companion flange. Impellers shall be of the multi-vane, semi-vortex, solids handling design and shall be slip fit to the shaft. The motor shaft shall be machined to provide a positive drive of the impeller. The pump casing shall incorporate an air relief valve.

3. MECHANICAL SEAL -

All units shall be furnished with a dual inside mechanical shaft seal located completely out of the pumpage, running in a separate oil filled chamber. The oil chamber shall be fitted with a device that shall provide positive lubrication of top mechanical seal, (down to one third of the standard oil level), on units 2 Hp. The device shall not consume any additional electrical power. Units shall have silicon carbide mechanical seal faces. Mechanical seal hardware shall be stainless steel.

4. MOTOR -

The pump motor(s) shall be _____ Hp., _____ kW., _____ V., 60 Hz., ___ Phase and shall be NEMA MG-1, Design Type B equivalent. Motor(s) shall be rated at _____ full load amps. Motor(s) shall have a 1.15 service factor and shall be rated for 20 starts per hour. Motor(s) shall be air filled, copper wound, class E insulated with built in thermal and over amperage (1/3 Hp and above) protection. Motor shaft shall be 403 stainless steel and shall be supported by two permanently lubricated, high temperature ball bearings, with a B-10 life rating at best efficiency point of 60,000 hours. The bearings shall be single row, double shielded, C3, deep groove type ball bearings. Bearing seats shall be rolled carbon steel or aluminum die casting. Motor housing shall be 304 stainless steel. Motors shall be suitable variable speed applications, utilizing a properly sized variable frequency drive.

5. POWER CABLE AND CABLE ENTRANCE -

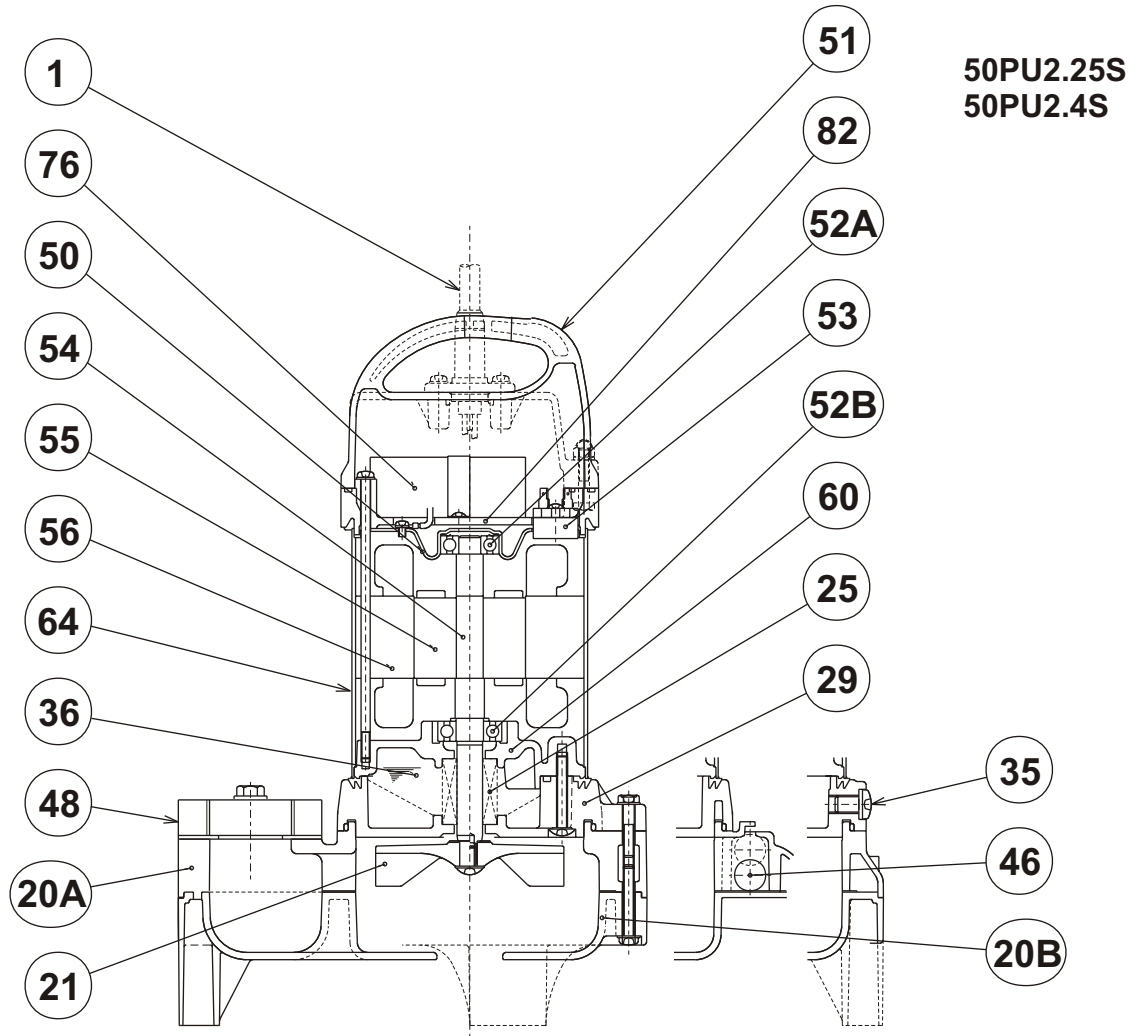
The pump power cable shall be suitable for submersible pump applications. The cable entrance shall incorporate built in strain relief, a one piece, three way mechanical compression seal with a fatigue reducing cable step. The cable entrance assembly shall contain an anti-wicking block to eliminate water incursion into the motor due to capillary wicking should the power cable be accidentally damaged.



TSURUMI PUMP

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SECTIONAL VIEW



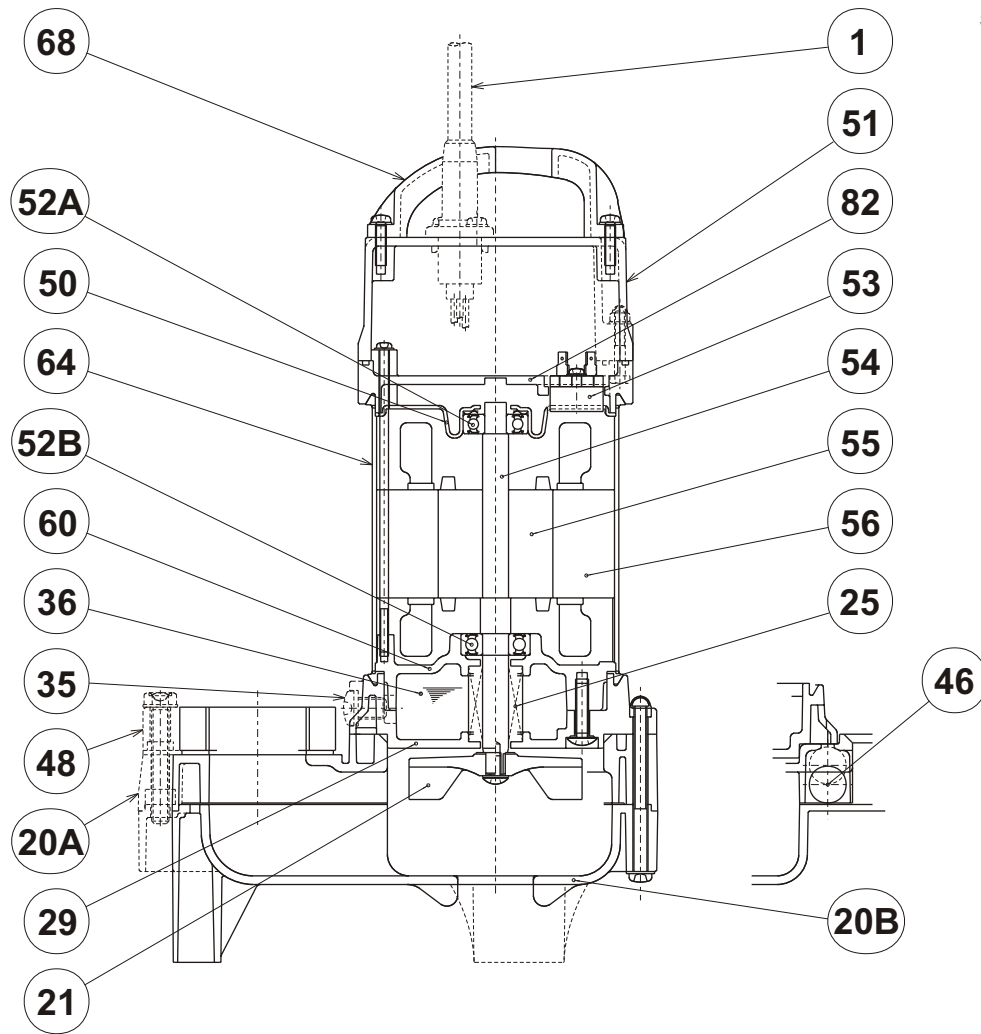
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/3-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
76	Capacitor				1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1



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SECTIONAL VIEW



50PU2.15

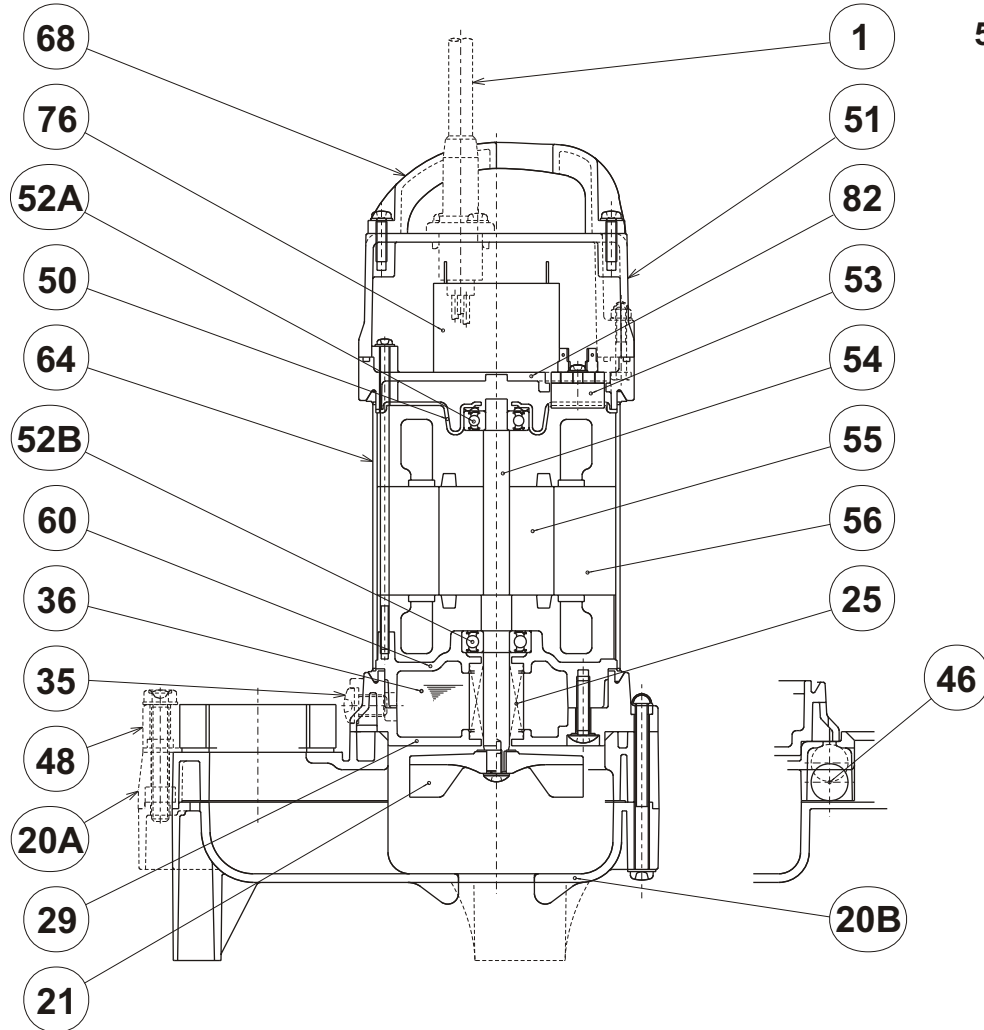
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SAE10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
68	Handle	ABS Plastic			1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1



TSURUMI PUMP

VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW

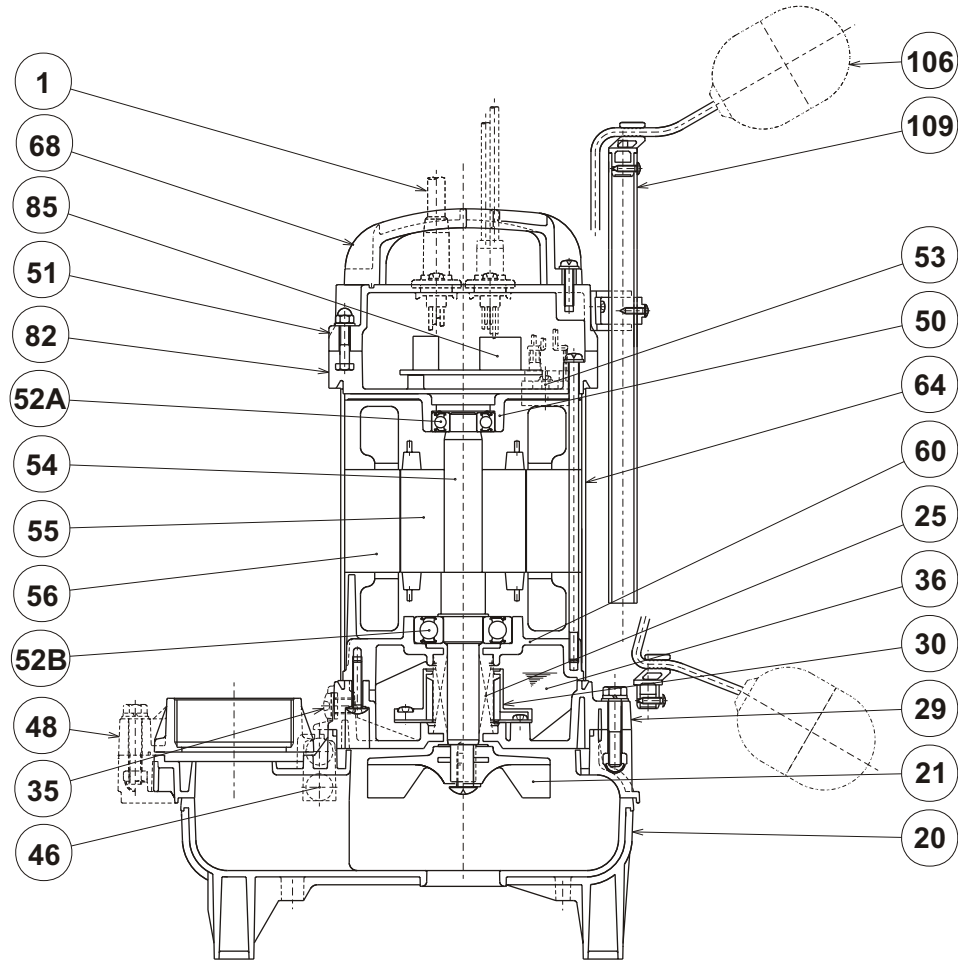


50PU2.15S

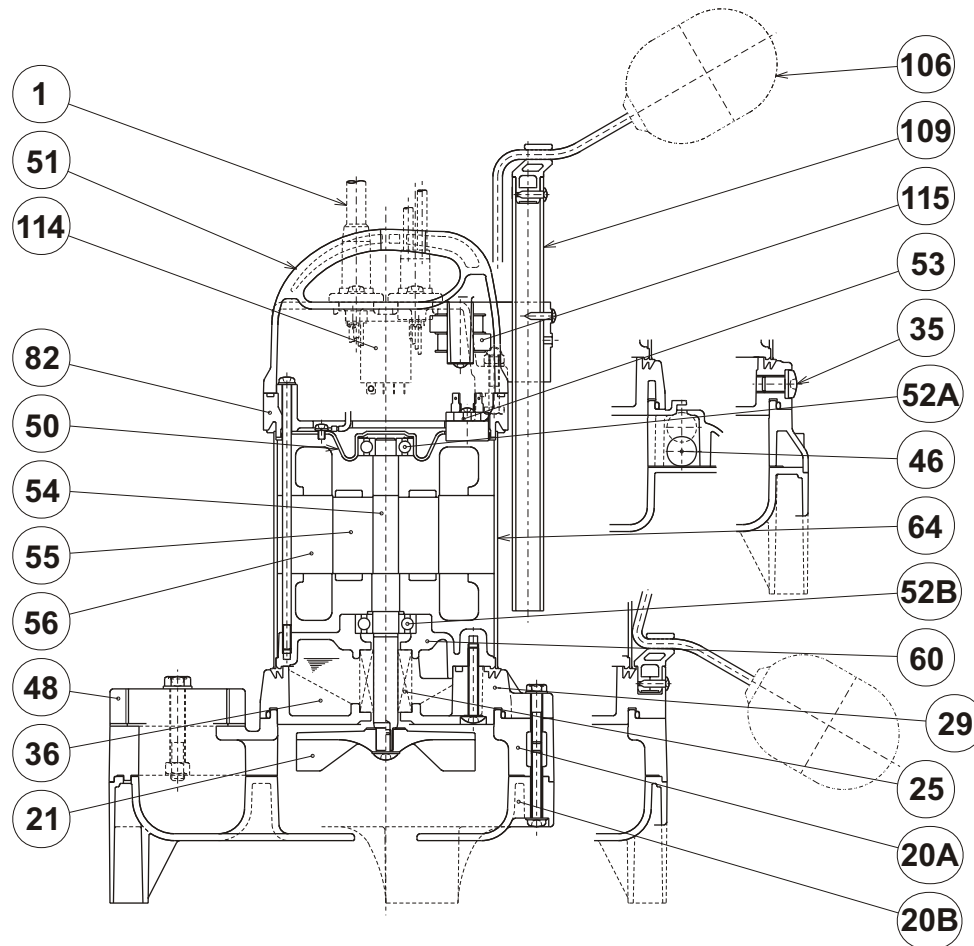
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/3-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/D-12B			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SAE10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
68	Handle	ABS Plastic			1
76	Capacitor				1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1

**TSURUMI PUMP**

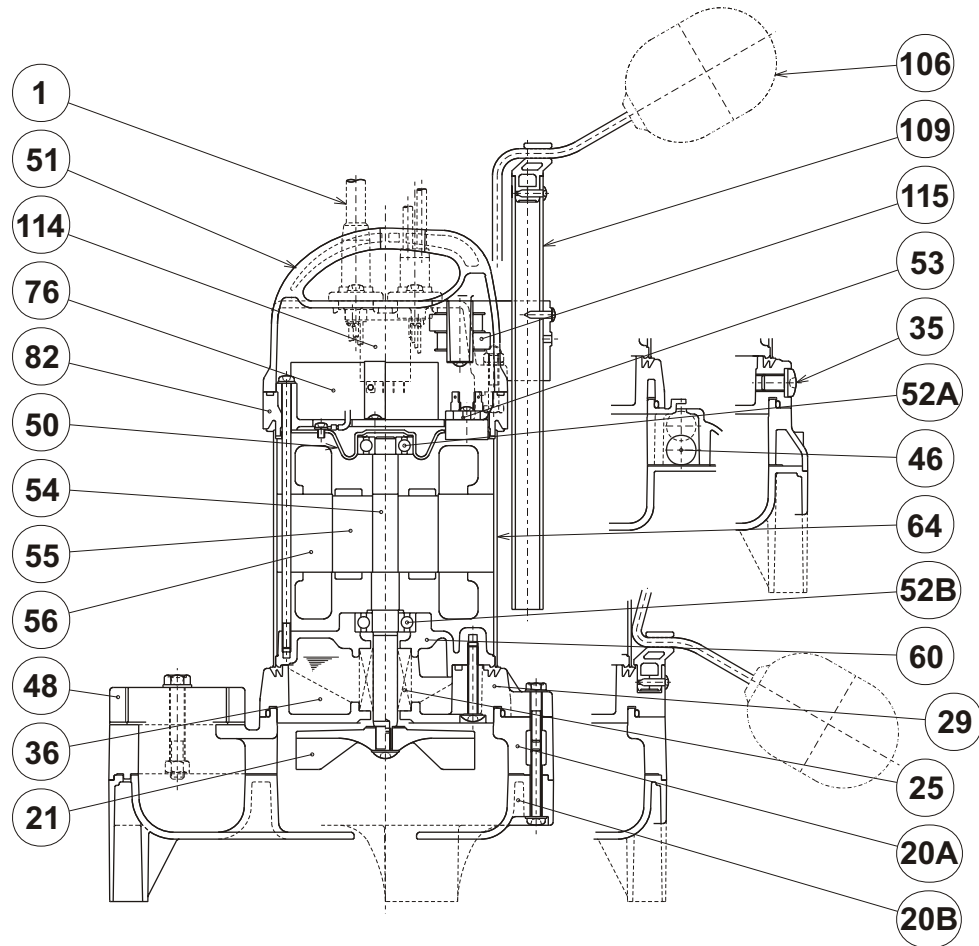
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW**80PUA21.5**

PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/H-20A			1
29	Oil Casing	PPS Plastic W/GF40			1
30	Oil Lifter	ABS Plastic			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	PVC/NPT 3"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6203ZZC3			1
52B	Lower Bearing	#6305ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
68	Handle	ABS Plastic			1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
85	Relay Unit				1
106	Float Set	ABS Plastic			2
109	Float Support Pipe	PVC			1

**TSURUMI PUMP**
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS
SECTIONAL VIEW**50PUA2.75**

PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6302ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
106	Float Set	ABS Plastic			2
109	Float Support Pipe	PVC			1
114	Power Relay				1
115	Transformer				1

**TSURUMI PUMP**
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS
SECTIONAL VIEW**50PUA2.75S**

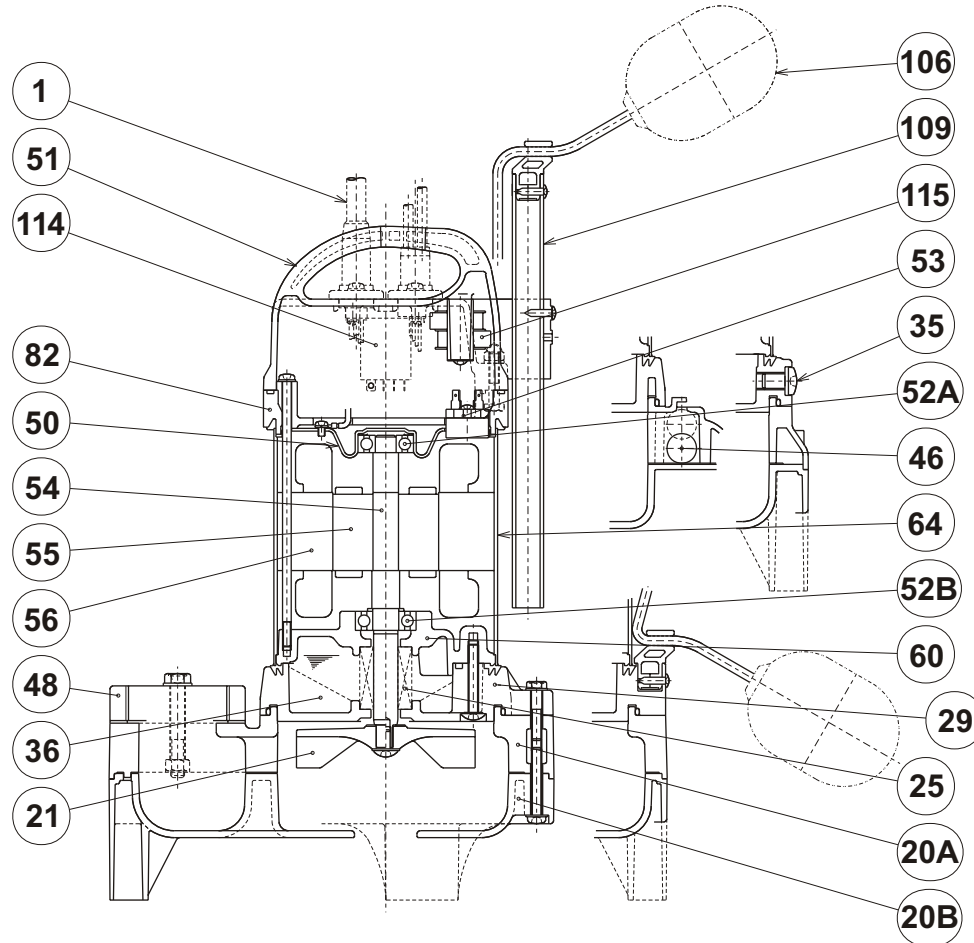
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/3-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6302ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
76	Capacitor				1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
106	Float Set	ABS Plastic			2
109	Float Support Pipe	PVC			1
114	Power Relay				1
115	Transformer				1

**TSURUMI PUMP**

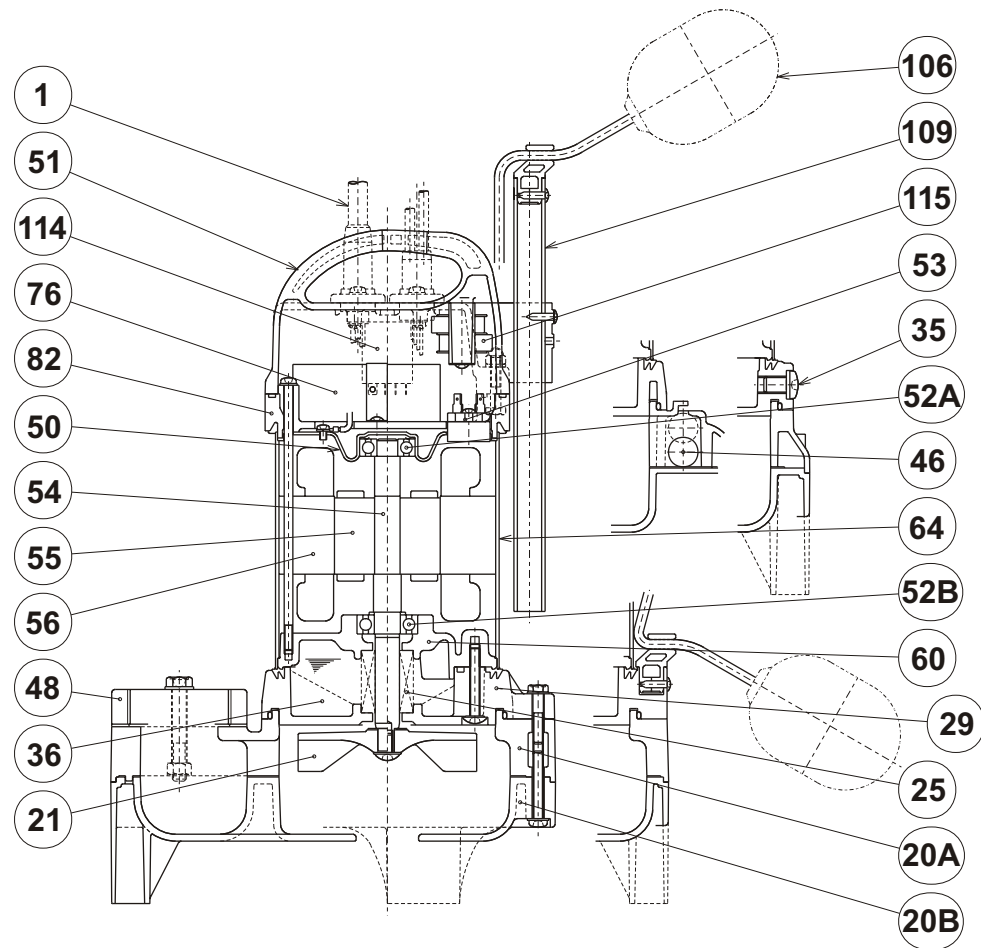
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW

50PUA2.75
50PUA2.4



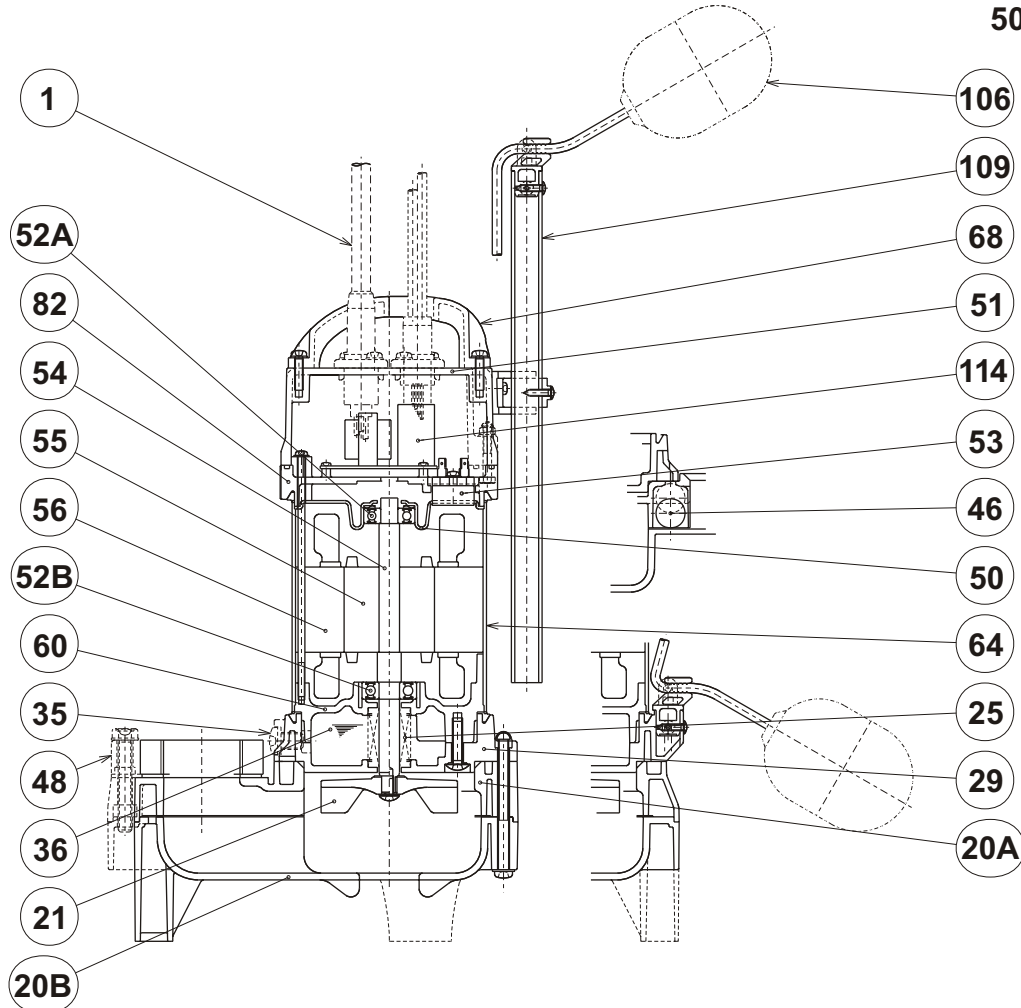
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
106	Float Set	ABS Plastic			2
109	Float Support Pipe	PVC			1
114	Power Relay				1
115	Transformer				1


50PUA2.75S
50PUA2.4S

PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/3-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
76	Capacitor				1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
106	Float Set	ABS Plastic			2
109	Float Support Pipe	PVC			1
114	Power Relay				1
115	Transformer				1

**TSURUMI PUMP**

VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW**50PUA2.15**

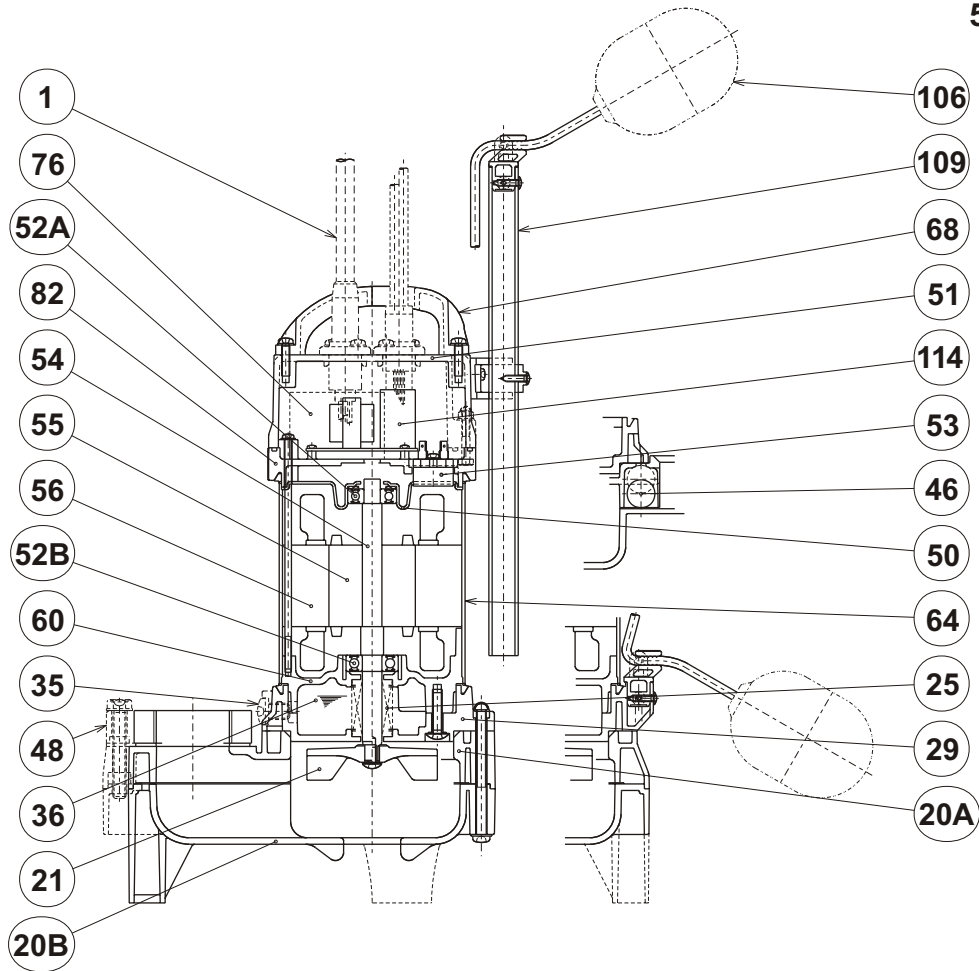
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SAE10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
68	Handle	ABS Plastic			1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
106	Float Set	ABS Plastic			2
109	Float Support Pipe	PVC			1
114	Power Relay				1



VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW

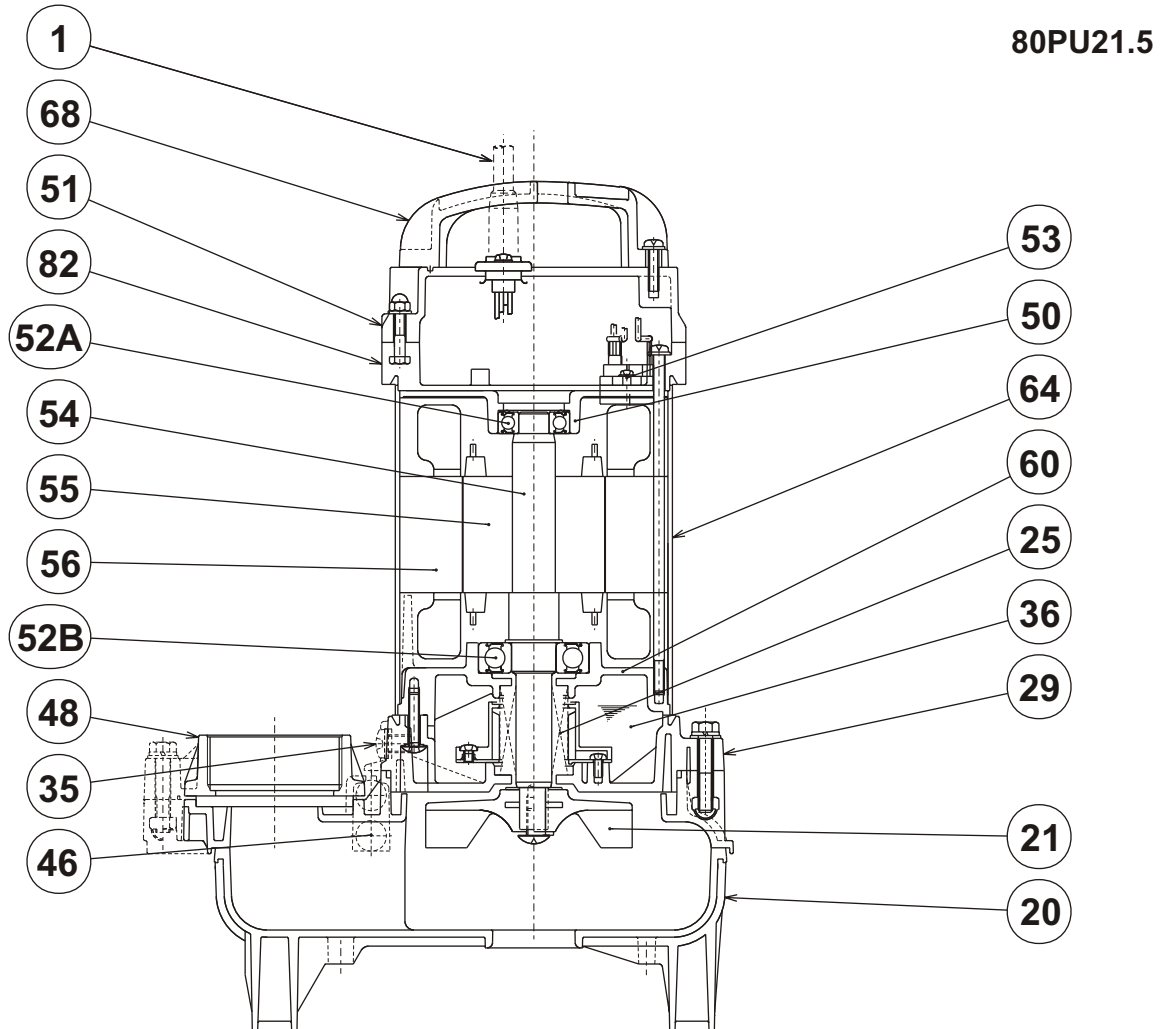
50PUA2.15S



PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/3-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/D-12B			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SAE10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
68	Handle	ABS Plastic			1
76	Capacitor				1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
106	Float Set	ABS Plastic			2
109	Float Support Pipe	PVC			1
114	Power Relay				1

**TSURUMI PUMP**

VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW

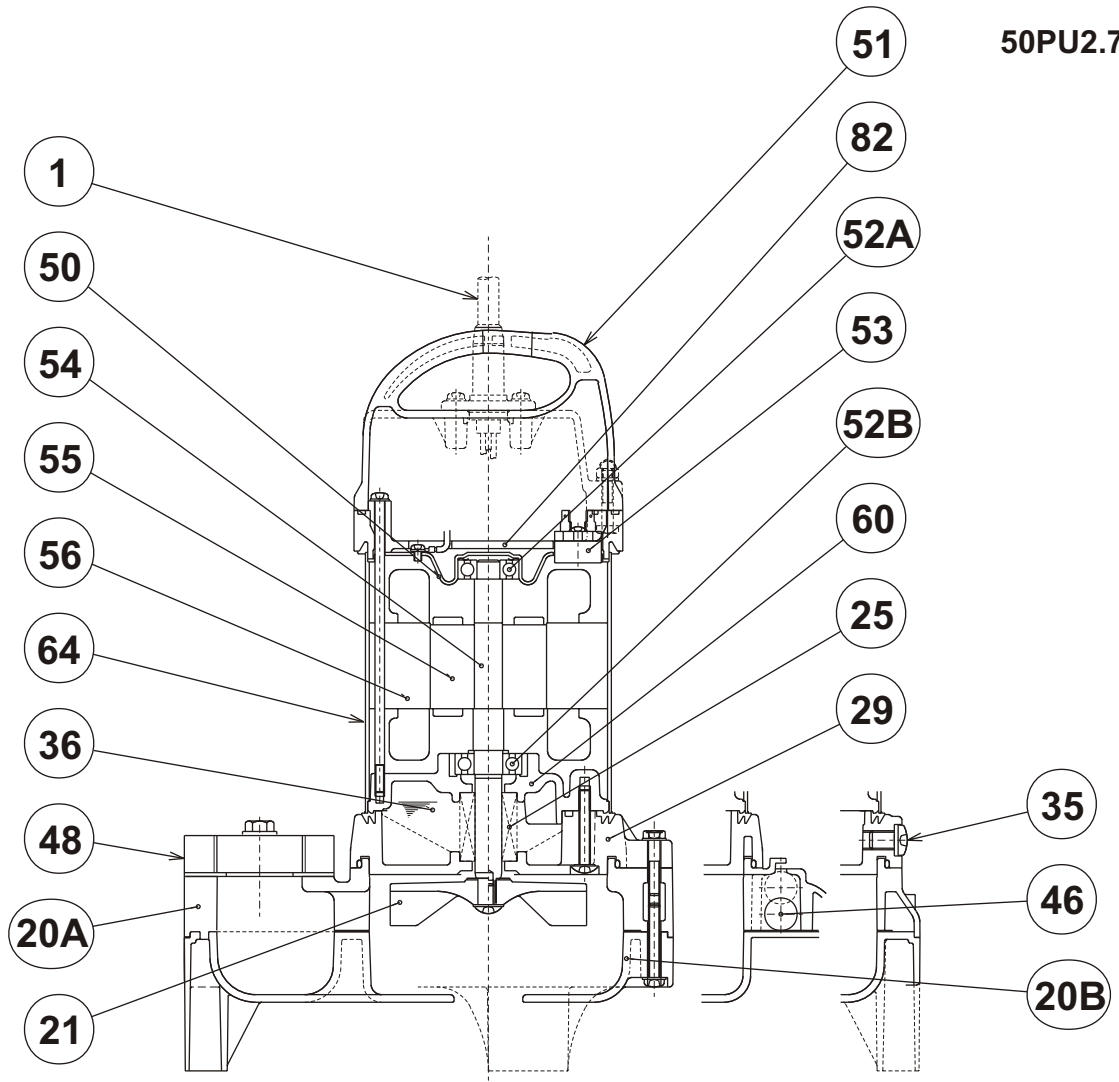
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/H-20A			1
29	Oil Casing	PPS Plastic W/GF40			1
30	Oil Lifter	ABS Plastic			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	PVC/NPT 3"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6203ZZC3			1
52B	Lower Bearing	#6305ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
68	Handle	ABS Plastic			1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1



TSURUMI PUMP

VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW



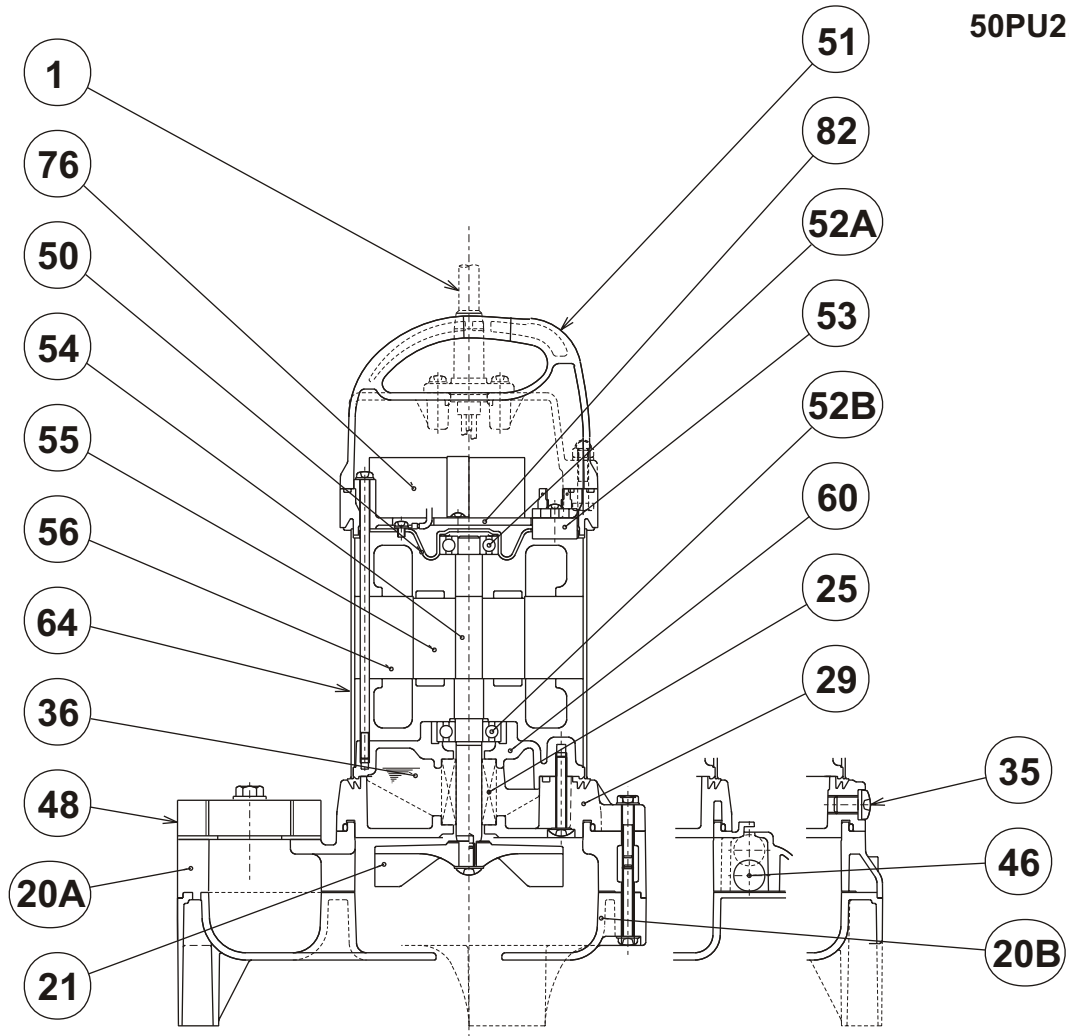
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6302ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1



TSURUMI PUMP

VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW



50PU2.75S

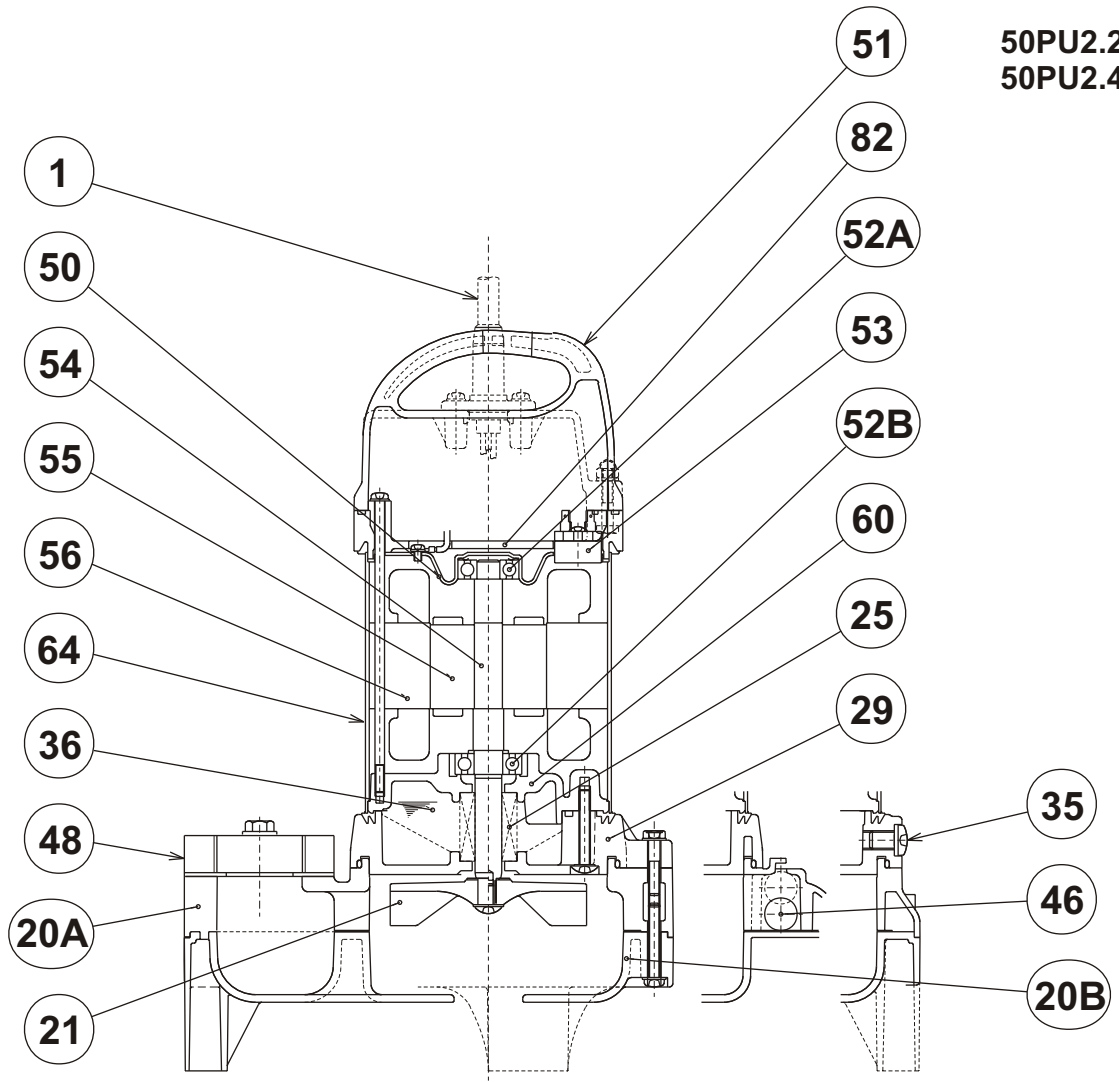
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/3-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6302ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
76	Capacitor				1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1



TSURUMI PUMP

VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

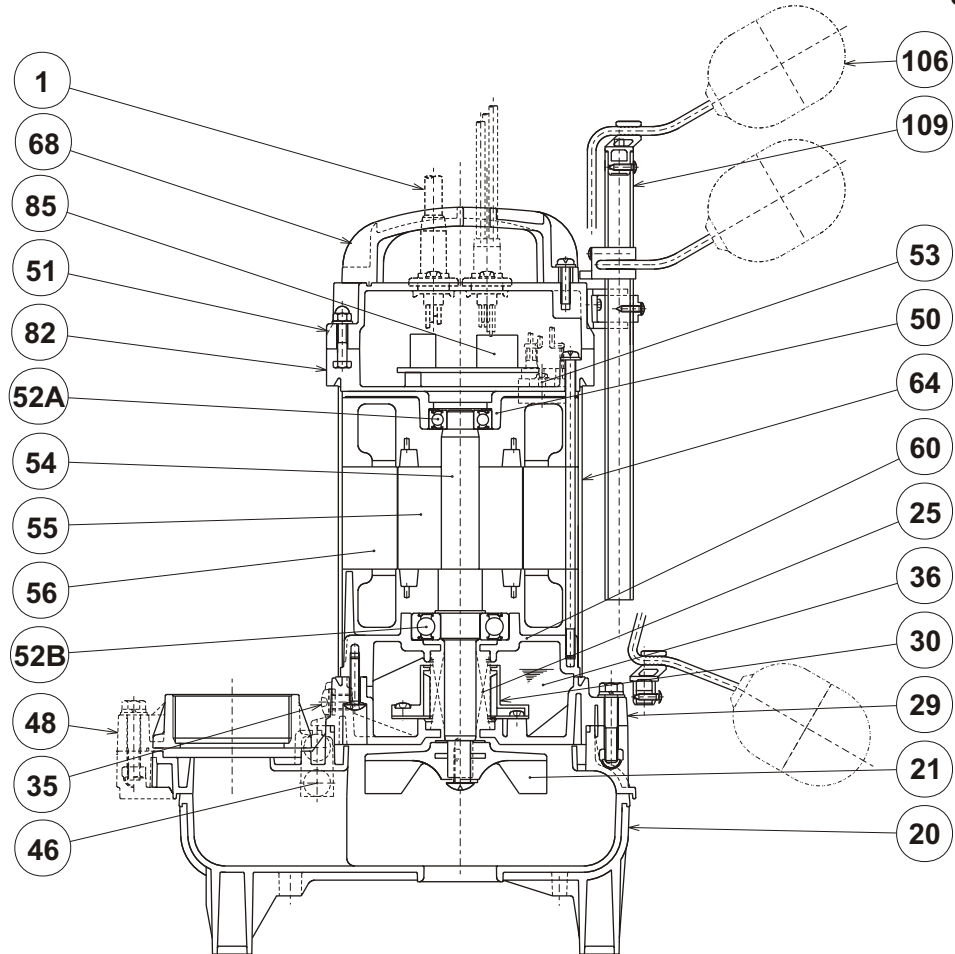
SECTIONAL VIEW



PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1

**TSURUMI PUMP**

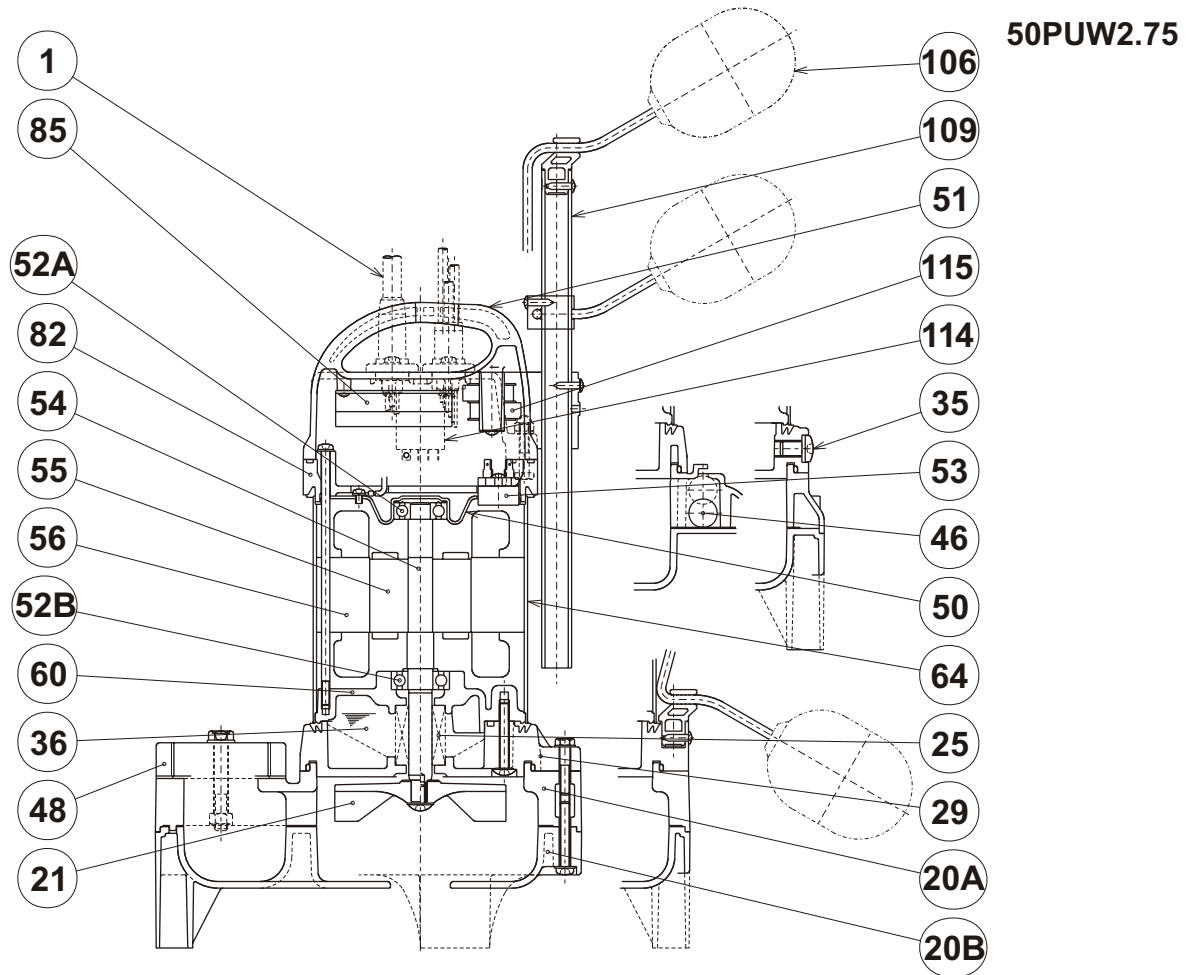
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW**80PUW21.5**

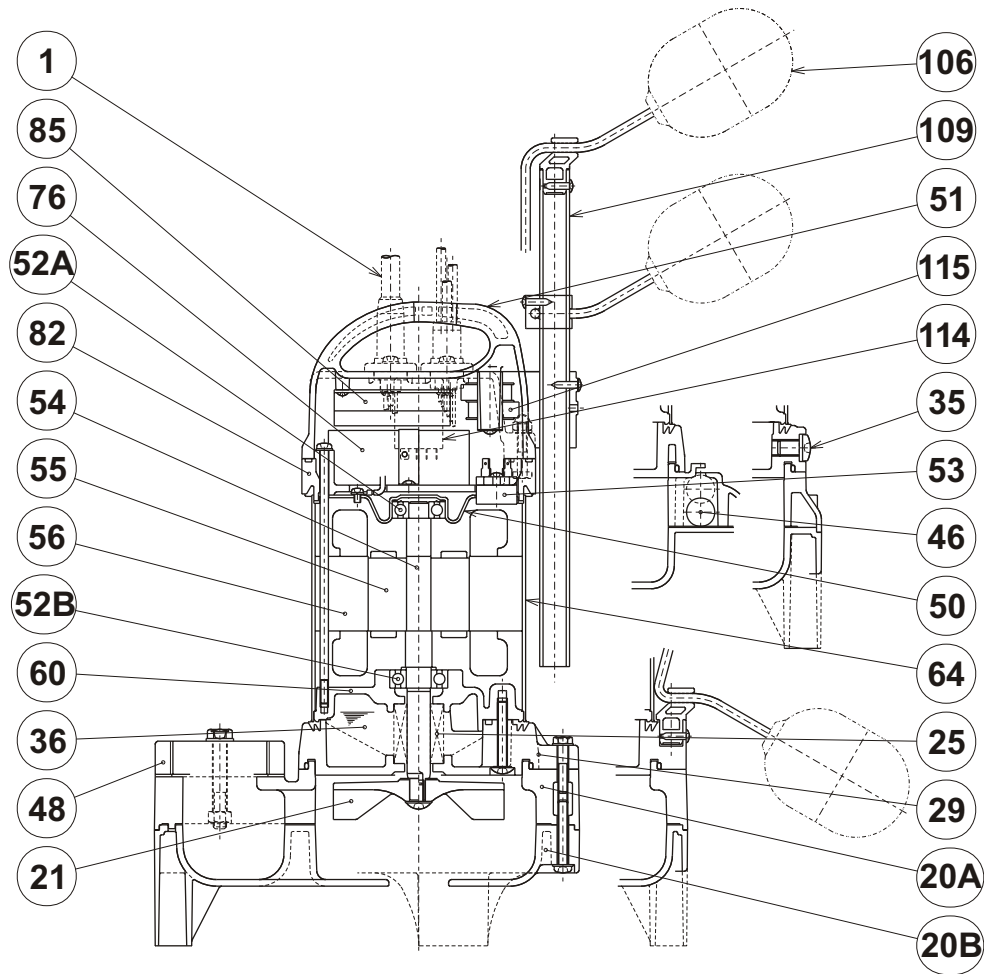
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/H-20A			1
29	Oil Casing	PPS Plastic W/GF40			1
30	Oil Lifter	ABS Plastic			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	PVC/NPT 3"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6203ZZC3			1
52B	Lower Bearing	#6305ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
68	Handle	ABS Plastic			1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
85	Relay Unit				1
106	Float Set	ABS Plastic			3
109	Float Support Pipe	PVC			1

**TSURUMI PUMP**

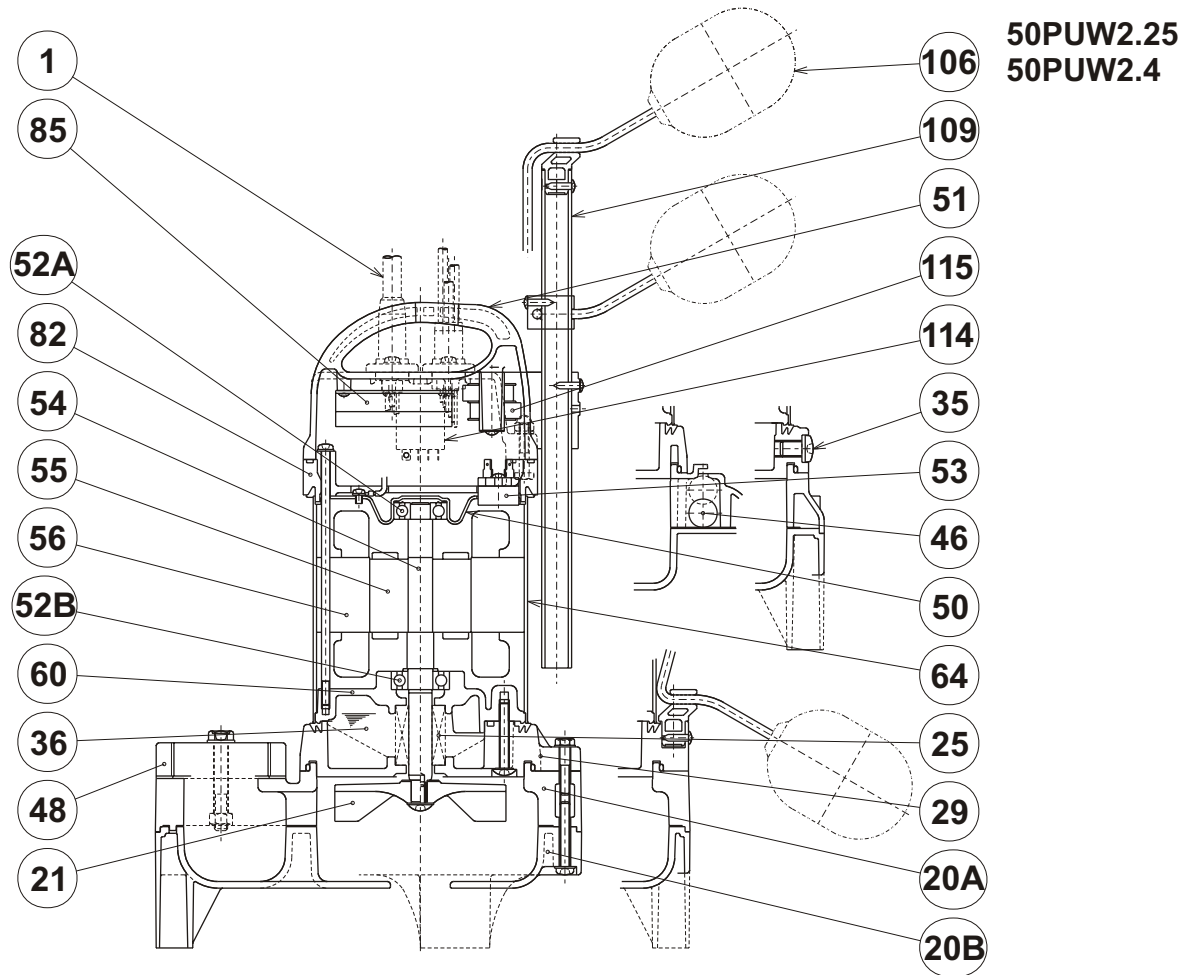
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW

PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6302ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
85	Relay unit				1
106	Float Set	ABS Plastic			3
109	Float Support Pipe	PVC			1
114	Power Relay				1
115	Transformer				1

**TSURUMI PUMP**
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS
SECTIONAL VIEW**50PUW2.75S**

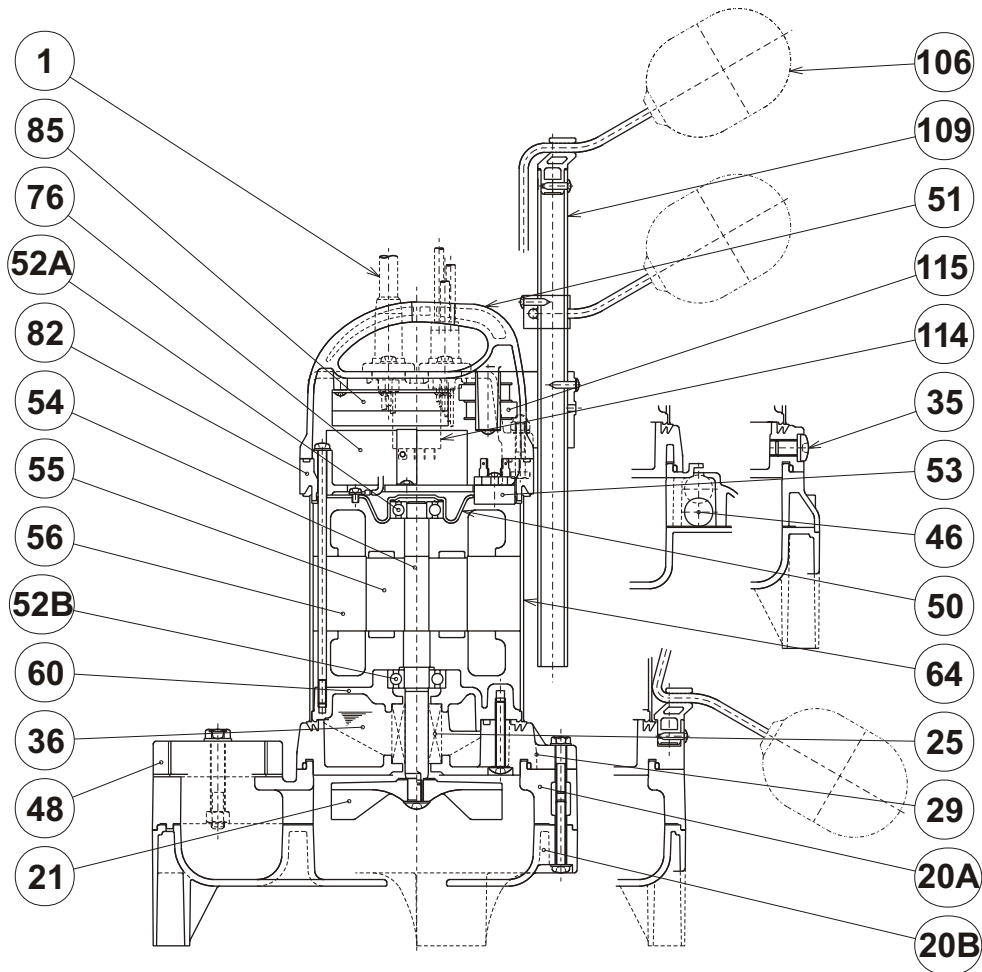
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/3-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6302ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
76	Capacitor				1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
85	Relay Unit				1
106	Float Set	ABS Plastic			3
109	Float Support Pipe	PVC			1
114	Power Relay				1
115	Transformer				1

**TSURUMI PUMP**
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS
SECTIONAL VIEW

PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
85	Relay Unit				1
106	Float Set	ABS Plastic			3
109	Float Support Pipe	PVC			1
114	Power Relay				1
115	Transformer				1

**TSURUMI PUMP**

VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW

50PUW2.25S
50PUW2.4S

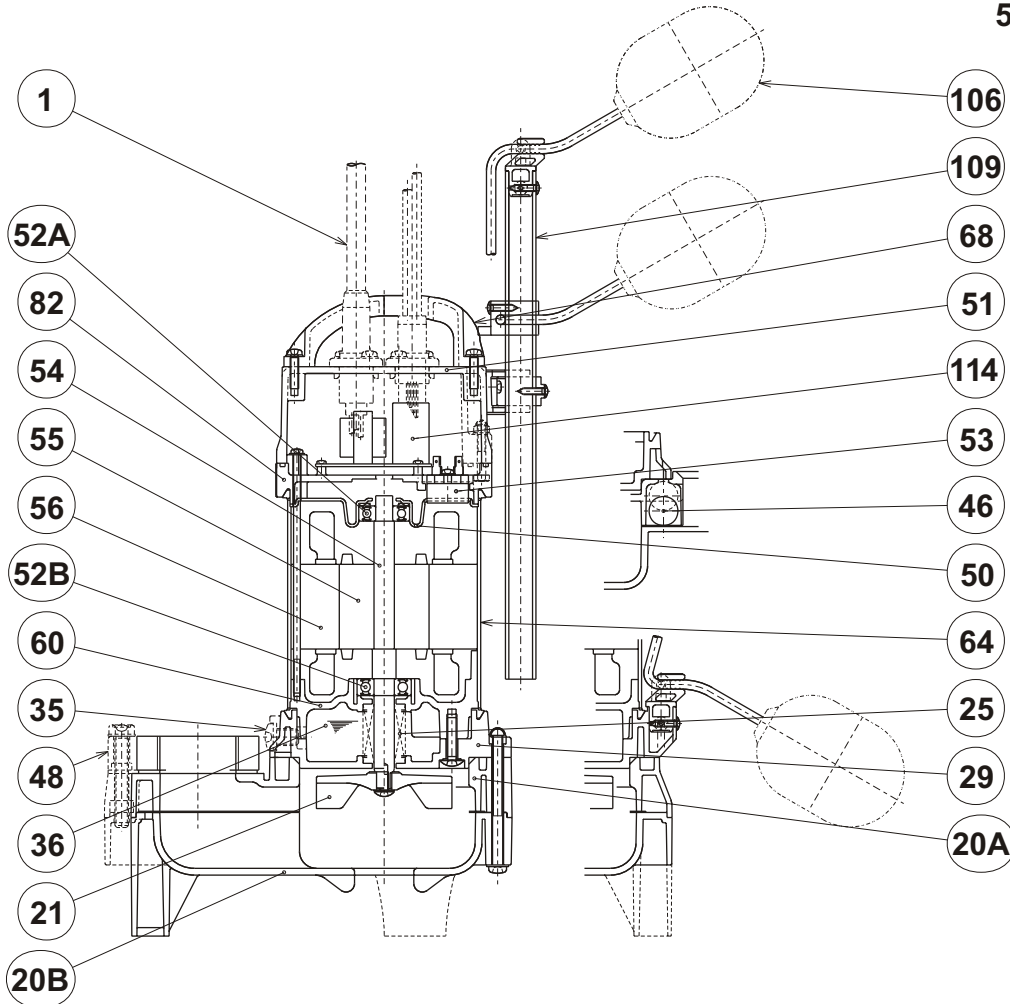
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/3-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SEA10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
76	Capacitor				1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
85	Relay Unit				1
106	Float Set	ABS Plastic			3
109	Float Support Pipe	PVC			1
114	Power Relay				1
115	Transformer				1



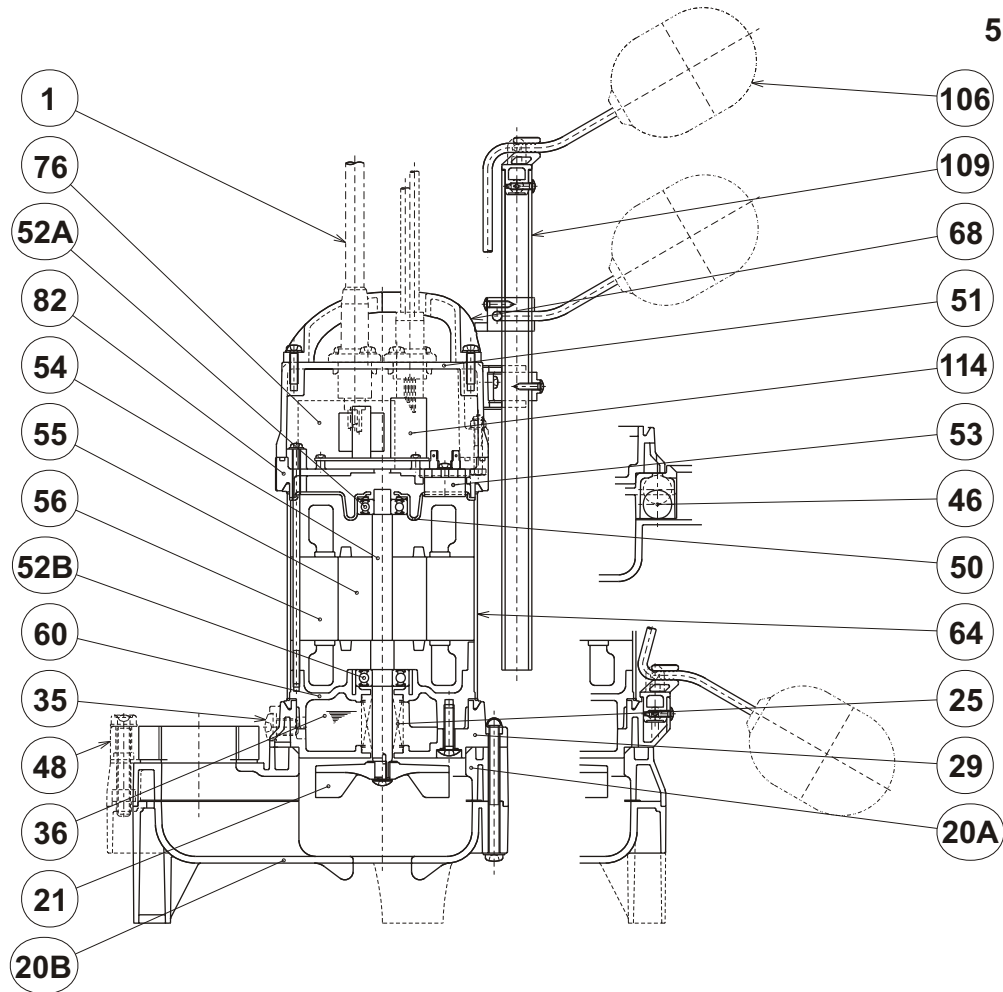
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

SECTIONAL VIEW

50PUW2.15



PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/W-14HL			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SAE10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
68	Handle	ABS Plastic			1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
106	Float Set	ABS Plastic			3
109	Float Support Pipe	PVC			1
114	Power Relay				1

**TSURUMI PUMP**
VANCS - SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS
SECTIONAL VIEW**50PUW2.15S**

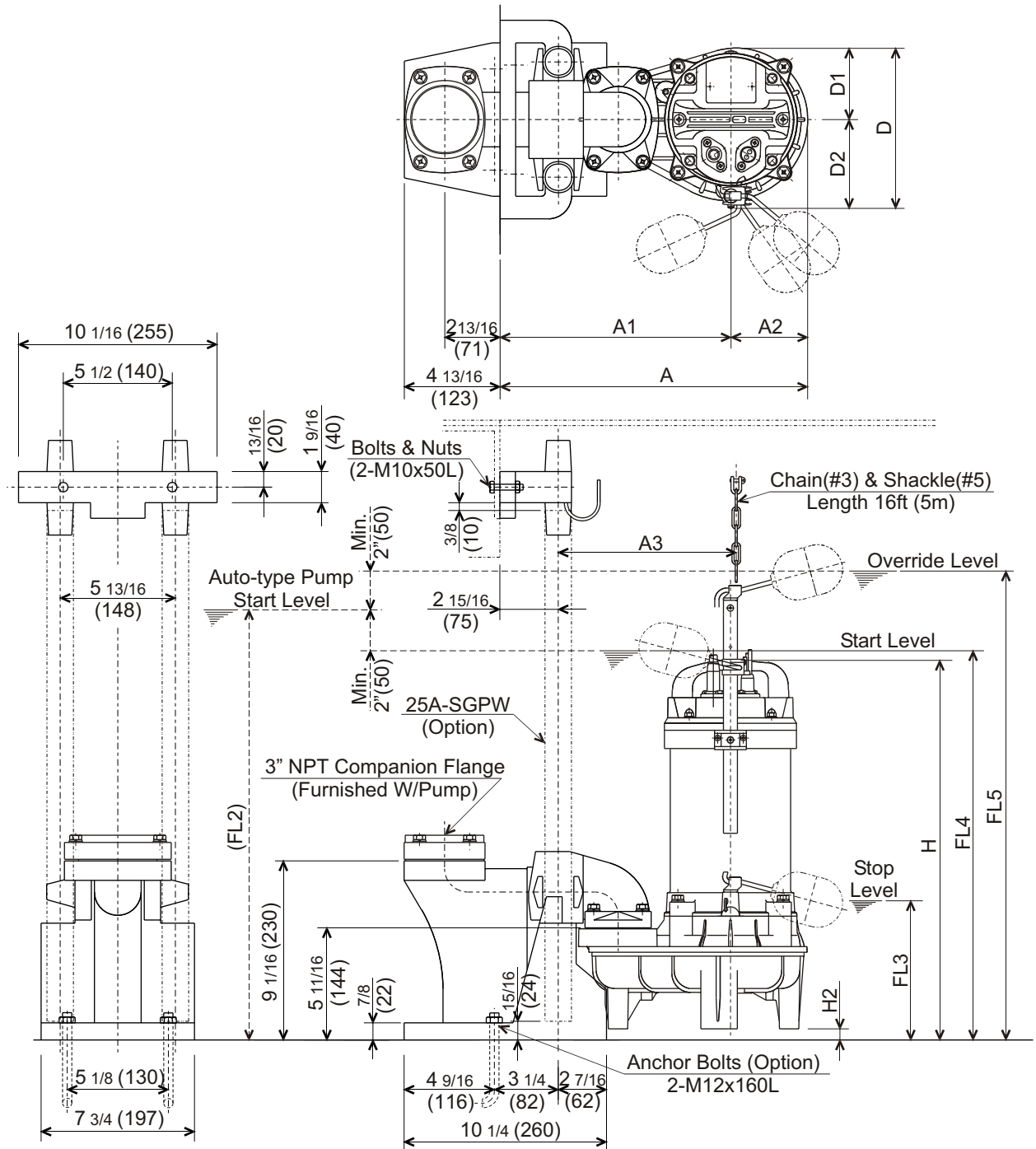
PART#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	QTY
1	Power Cable	PVC Sheath AWG16/3-32ft			1
20A	Upper Pump Casing	ABS Plastic W/GF20			1
20B	Lower Pump Casing	ABS Plastic W/GF20			1
21	Impeller	PPO Plastic W/GF20			1
25	Mechanical Seal	Silicon Carbide/D-12B			1
29	Oil Casing	PPS Plastic W/GF40			1
35	Oil Plug	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
36	Lubricant	Turbine Oil ISO VG32 or SAE10W/20W			
46	Air Valve	Glass Ball			1
48	Companion Flange	Polycarbonated Plastic/NPT 2"			1
50	Motor Bracket	Carbon Steel	A109 Class 91	1624-87 St 2,3,4	1
51	Motor Head Cover	PPO+PPS Plastic W/GF30			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6202ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	AISI 403	17440 X15 Cr 13	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85, A383	N/A, (BS Code LM 2)	1
64	Motor Housing	Stainless Steel	AISI 304	17440 X5 CrNi 18-9	1
68	Handle	ABS Plastic			1
76	Capacitor				1
82	Motor Head Cover Spacer	PPS Plastic W/GF40			1
106	Float Set	ABS Plastic			3
109	Float Support Pipe	PVC			1
114	Power Relay				1



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

TOK80PUW21.5



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor									Stop FL3	Start Max.FL4	Override Max.FL5	Wt. (lbs.)
			A	A1	A2	A3	D	D1	D2	H	H2				
TOK80PUW21.5	2	3"	15 9/16	11 11/16	3 7/8	9 1/16	7 11/16	3 5/8	4 1/8	19 1/4	9/16	7 1/2	24 5/8	28 5/8	36.3

DIMENSIONS:METRIC (mm)

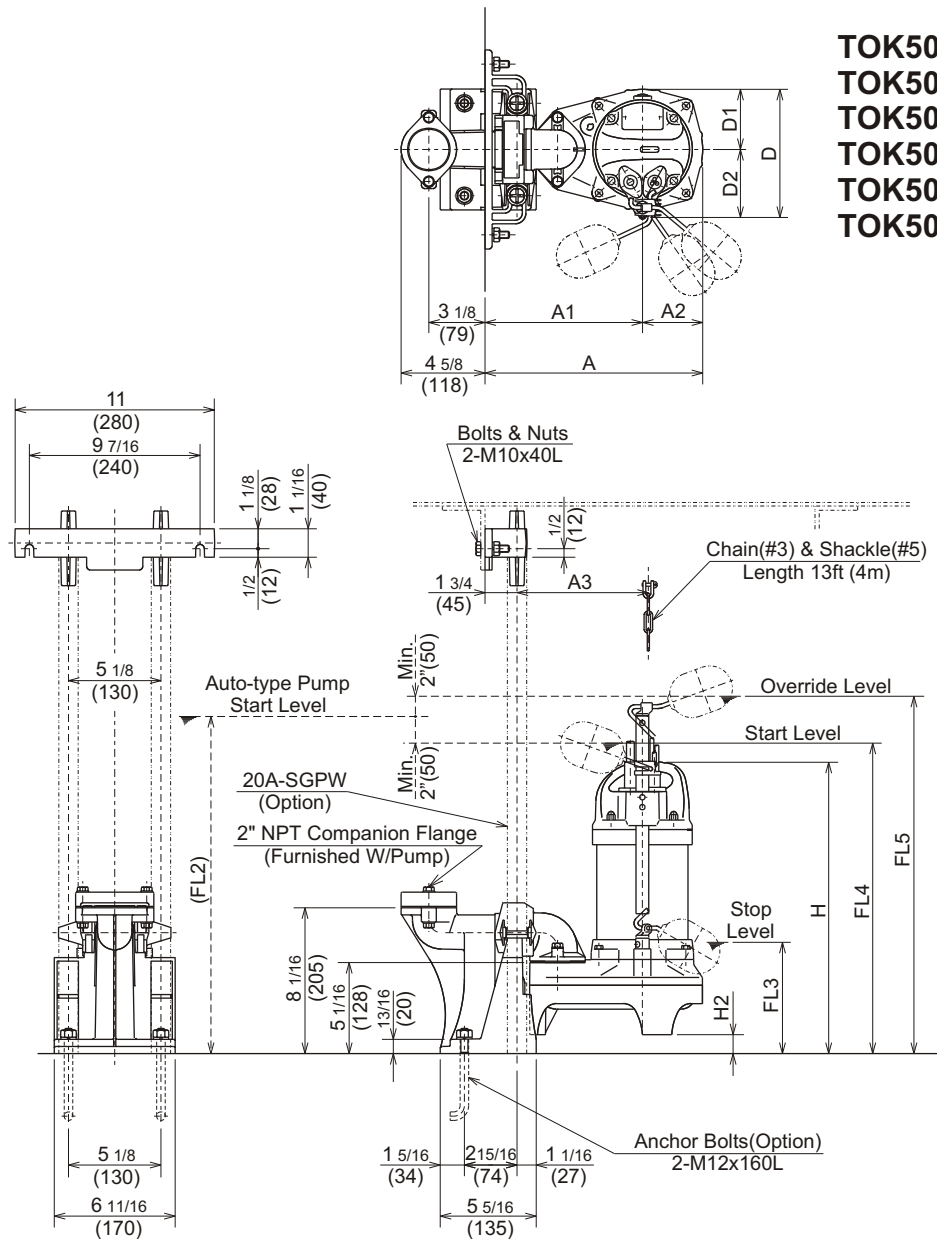
Model	kW	NOM. SIZE	Pump & Motor									Stop FL3	Start Max.FL4	Override Max.FL5	Wt. (kg)
			A	A1	A2	A3	D	D1	D2	H	H2				
TOK80PUW21.5	1.5	80	396	297	99	231	196	92	104	489	14	192	627	727	16.5



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

TOK50PUW2.25S
TOK50PUW2.25
TOK50PUW2.4S
TOK50PUW2.4
TOK50PUW2.75S
TOK50PUW2.75



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor										Stop FL3	Start Max.FL4	Override Max.FL5	Wt. (lbs.)
			A	A1	A2	A3	D	D1	D2	H	H2					
TOK50PUW2.25S	1/3	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16	1	6 1/8	22 1/8	26 3/8	18.5	
TOK50PUW2.25	1/3	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16	1	6 1/8	22 1/8	26 3/8	17.0	
TOK50PUW2.4S	1/2	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16 5/16	1	6 1/8	22 3/8	26 3/4	19.8	
TOK50PUW2.4	1/2	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16 5/16	1	6 1/8	22 3/8	26 3/4	18.7	
TOK50PUW2.75S	1	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16 7/8	1	6 1/8	23	27 3/8	24.9	
TOK50PUW2.75	1	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16 7/8	1	6 1/8	23	27 3/8	22.5	

DIMENSIONS:METRIC (mm)

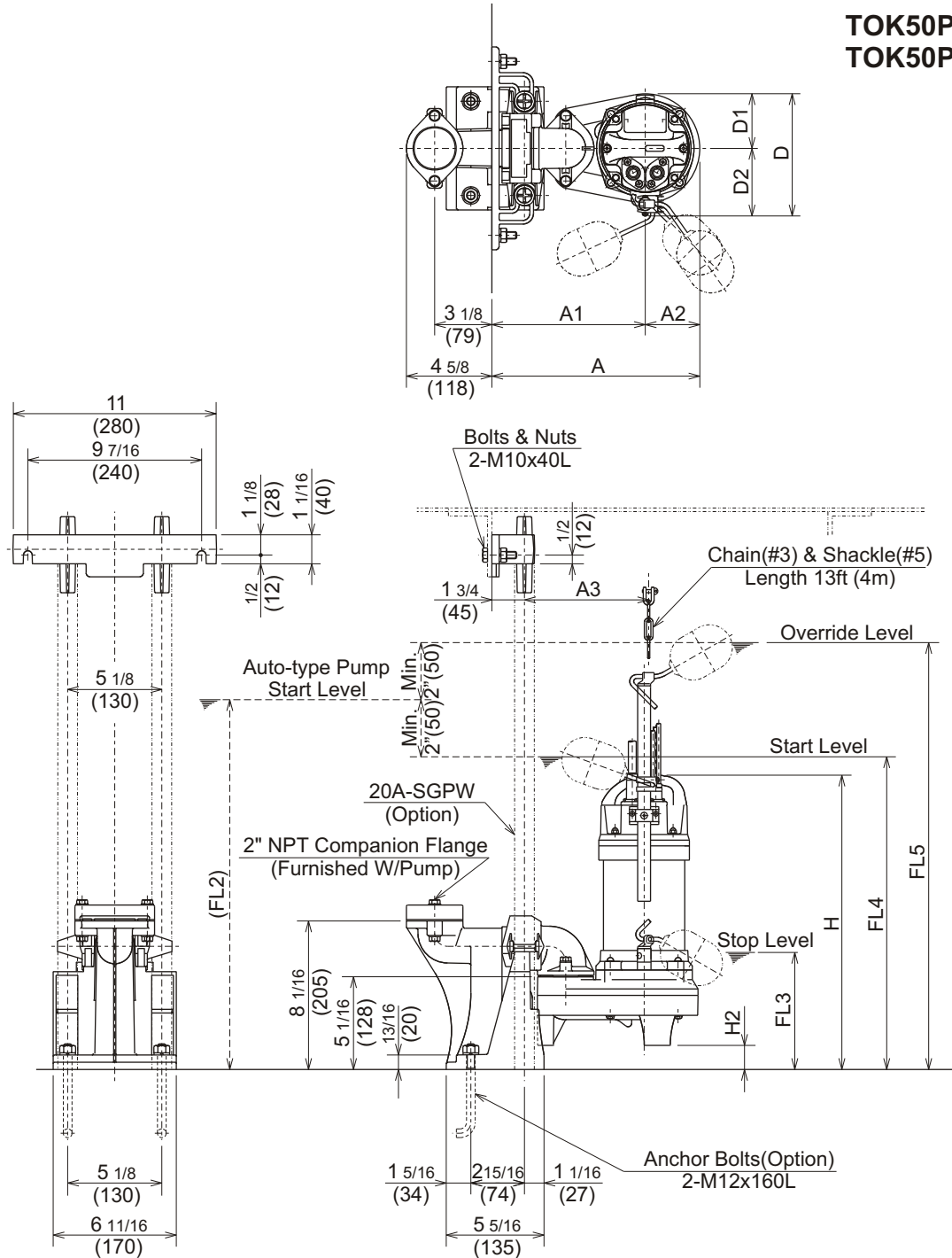
Model	kW	NOM. SIZE	Pump & Motor										Stop FL3	Start Max.FL4	Override Max.FL5	Wt. (kg)
			A	A1	A2	A3	D	D1	D2	H	H2					
TOK50PUW2.25S	0.25	50	307	222	85	187	170	85	85	406	26	156	561	671	8.4	
TOK50PUW2.25	0.25	50	307	222	85	187	170	85	85	406	26	156	561	671	7.7	
TOK50PUW2.4S	0.40	50	307	222	85	187	170	85	85	414	26	156	569	679	9.0	
TOK50PUW2.4	0.40	50	307	222	85	187	170	85	85	414	26	156	569	679	8.5	
TOK50PUW2.75S	0.75	50	307	222	85	187	170	85	85	429	26	156	584	694	11.3	
TOK50PUW2.75	0.75	50	307	222	85	187	170	85	85	429	26	156	584	694	10.2	



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

TOK50PUW2.15S
TOK50PUW2.15



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor								Stop	Start	Override	Wt. (lbs.)	
			A	A1	A2	A3	D	D1	D2	H	H2	FL3	Max.FL4		Max.FL5
TOK50PUW2.15S	1/5	2"	11 5/16	8 3/8	3	7 1/16	6 1/16	3	3 1/16	16 1/8	1 1/4	6 3/8	22 3/8	26 5/8	15.6
TOK50PUW2.15	1/5	2"	11 5/16	8 3/8	3	7 1/16	6 1/16	3	3 1/16	16 1/8	1 1/4	6 3/8	22 3/8	26 5/8	13.9

DIMENSIONS:METRIC (mm)

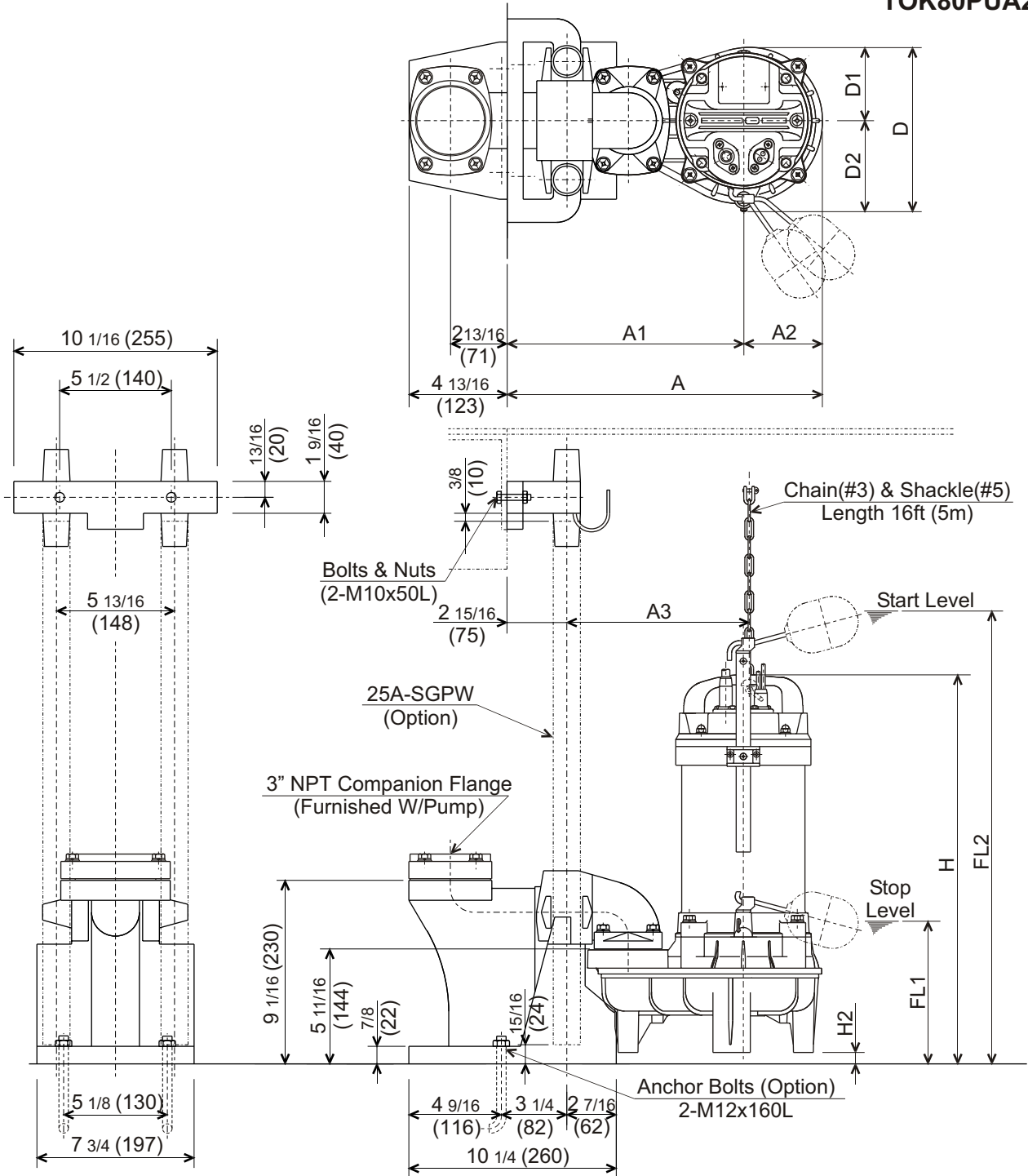
Model	kW	NOM. SIZE	Pump & Motor								Stop	Start	Override	Wt. (kg)	
			A	A1	A2	A3	D	D1	D2	H	H2	FL3	Max.FL4		Max.FL5
TOK50PUW2.15S	0.15	50	288	212	76	180	154	76	78	410	32	162	567	677	7.1
TOK50PUW2.15	0.15	50	288	212	76	180	154	76	78	410	32	162	567	677	6.3



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

TOK80PUA21.5



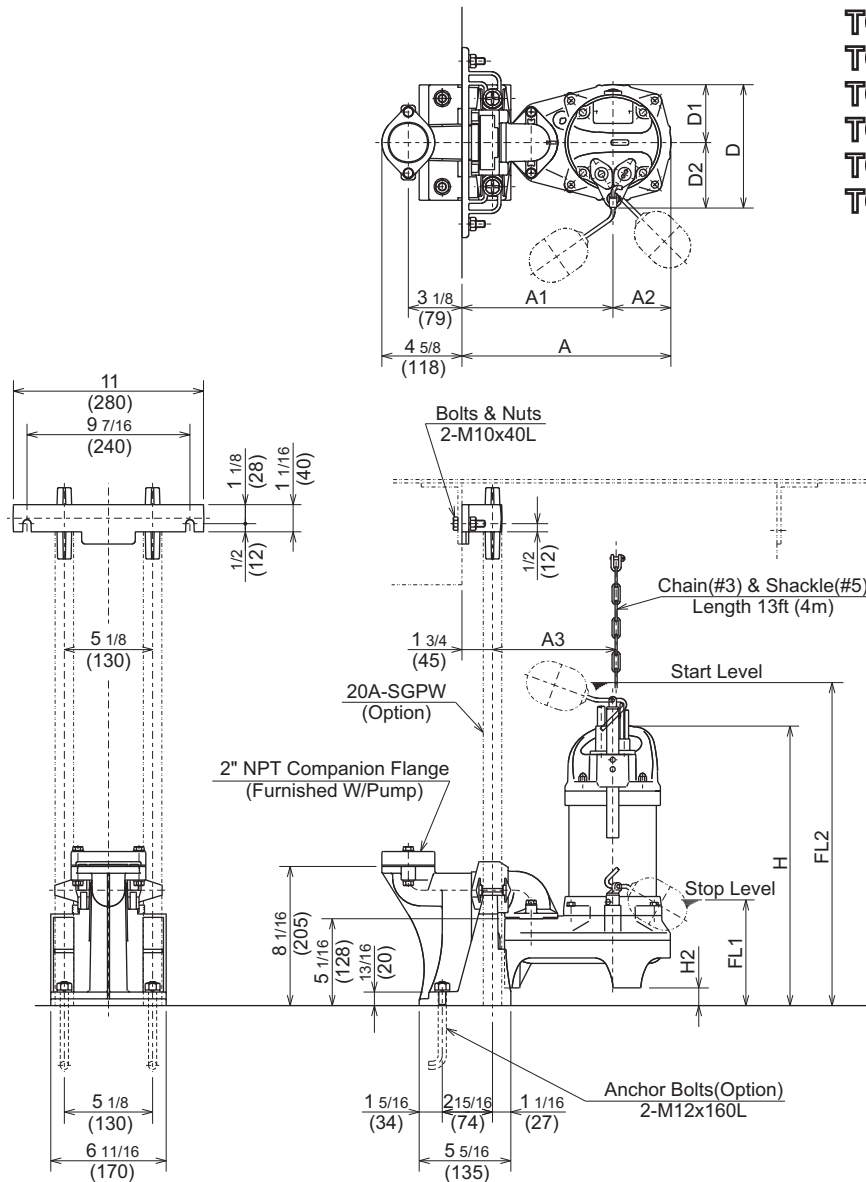
DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor									Stop	Start	Wt. (lbs.)
			A	A1	A2	A3	D	D1	D2	H	H2	FL1	Max.FL2	
TOK80PUA21.5	2	3"	15 9/16	11 11/16	3 7/8	9 1/16	7 11/16	3 5/8	4 1/8	19 1/4	9/16	7 1/2	26 5/8	36.3

DIMENSIONS:METRIC (mm)

Model	kW	NOM. SIZE	Pump & Motor									Stop	Start	Wt. (kg)
			A	A1	A2	A3	D	D1	D2	H	H2	FL1	Max.FL2	
TOK80PUA21.5	1.5	80	396	297	99	231	196	92	104	489	14	192	677	16.5

TOK50PUA2.25S
TOK50PUA2.25
TOK50PUA2.4S
TOK50PUA2.4
TOK50PUA2.75S
TOK50PUA2.75


DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor									Stop FL1	Start Max.FL2	Wt. (lbs.)	
			A	A1	A2	A3	D	D1	D2	H	H2				
TOK50PUA2.25S	1/3	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	3 3/8	16	1	6 1/8	24	18.1
TOK50PUA2.25	1/3	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	3 3/8	16	1	6 1/8	24	16.7
TOK50PUA2.4S	1/2	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	3 3/8	16 5/16	1	6 1/8	24 3/8	19.6
TOK50PUA2.4	1/2	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	3 3/8	16 5/16	1	6 1/8	24 3/8	18.5
TOK50PUA2.75S	1	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	3 3/8	16 7/8	1	6 1/8	25	24.7
TOK50PUA2.75	1	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	3 3/8	16 7/8	1	6 1/8	25	22.2

DIMENSIONS:METRIC (mm)

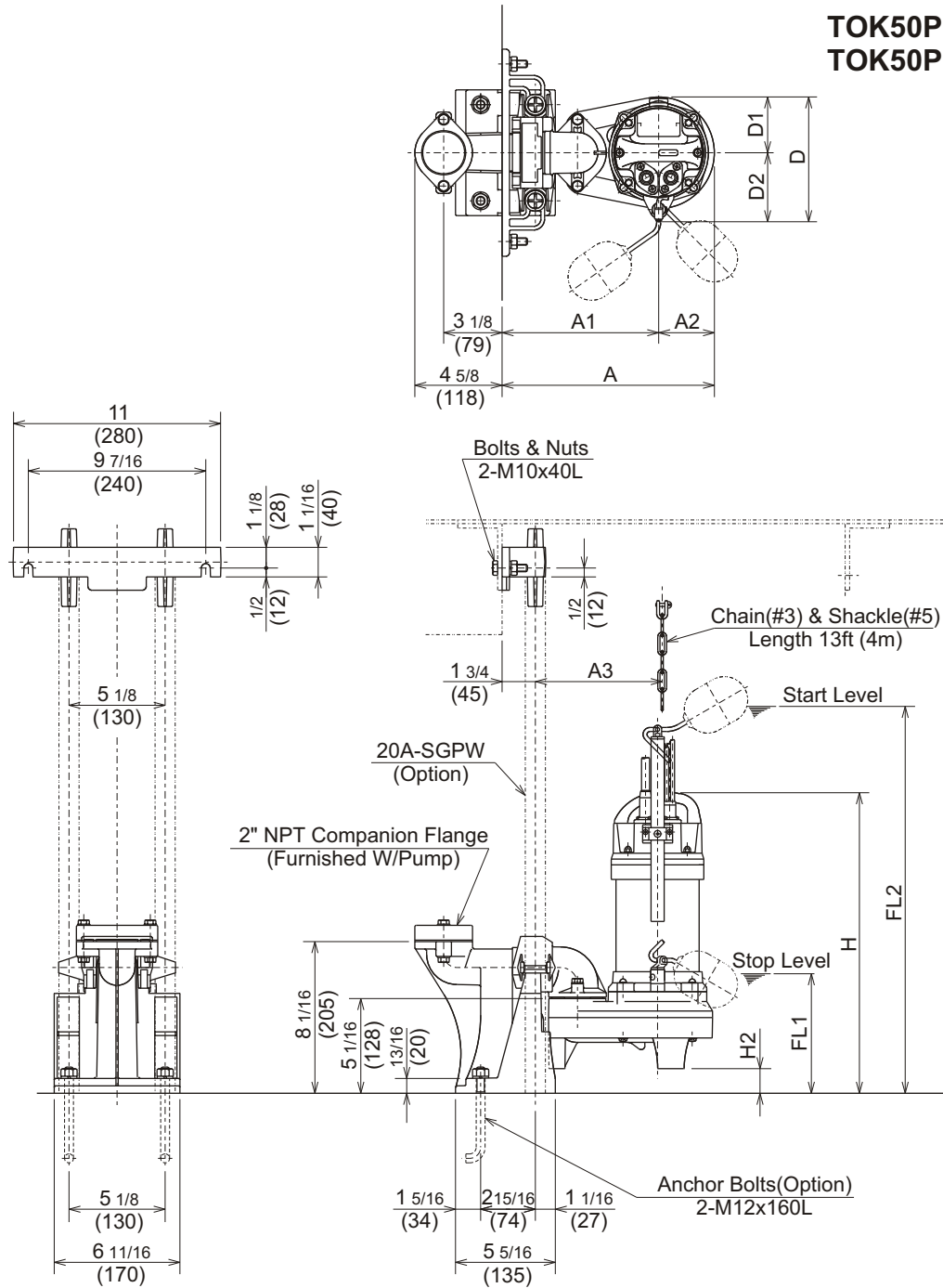
Model	kW	NOM. SIZE	Pump & Motor									Stop FL1	Start Max.FL2	Wt. (kg)	
			A	A1	A2	A3	D	D1	D2	H	H2				
TOK50PUA2.25S	0.25	50	307	222	85	187	170	85	85	85	406	26	156	611	8.2
TOK50PUA2.25	0.25	50	307	222	85	187	170	85	85	85	406	26	156	611	7.6
TOK50PUA2.4S	0.40	50	307	222	85	187	170	85	85	85	414	26	156	619	8.9
TOK50PUA2.4	0.40	50	307	222	85	187	170	85	85	85	414	26	156	619	8.4
TOK50PUA2.75S	0.75	50	307	222	85	187	170	85	85	85	429	26	156	634	11.2
TOK50PUA2.75	0.75	50	307	222	85	187	170	85	85	85	429	26	156	634	10.1



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

TOK50PUA2.15S
TOK50PUA2.15



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor										Stop FL1	Start Max.FL2	Wt. (lbs.)
			A	A1	A2	A3	D	D1	D2	H	H2				
TOK50PUA2.15S	1/5	2"	11 5/16	8 3/8	3	7 1/16	6 1/16	3	3 1/16	16 1/8	1 1/4	6 3/8	24 1/4	15.4	
TOK50PUA2.15	1/5	2"	11 5/16	8 3/8	3	7 1/16	6 1/16	3	3 1/16	16 1/8	1 1/4	6 3/8	24 1/4	13.7	

DIMENSIONS:METRIC (mm)

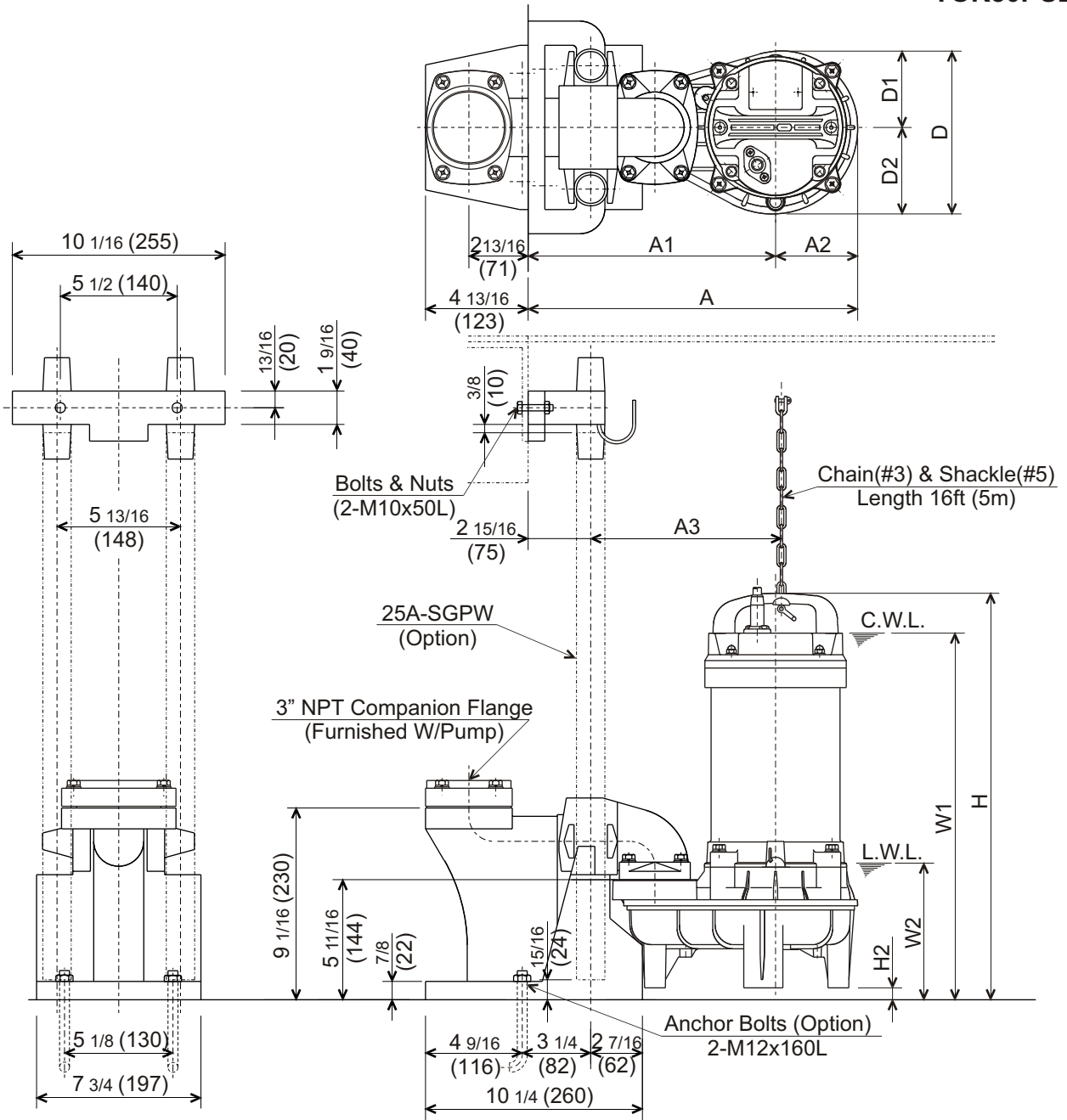
Model	kW	NOM. SIZE	Pump & Motor										Stop FL1	Start Max.FL2	Wt. (kg)
			A	A1	A2	A3	D	D1	D2	H	H2				
TOK50PUA2.15S	0.15	50	288	212	76	180	154	76	78	410	32	162	617	7.0	
TOK50PUA2.15	0.15	50	288	212	76	180	154	76	78	410	32	162	617	6.2	



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

TOK80PU21.5



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

DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor									C.W.L. W1	L.W.L. W2	Wt. (lbs.)
			A	A1	A2	A3	D	D1	D2	H	H2			
TOK80PU21.5	2	3"	15 9/16	11 11/16	3 7/8	9 1/16	7 11/16	3 5/8	4 1/8	19 1/4	9/16	17 3/8	6 1/2	34.8

DIMENSIONS:METRIC (mm)

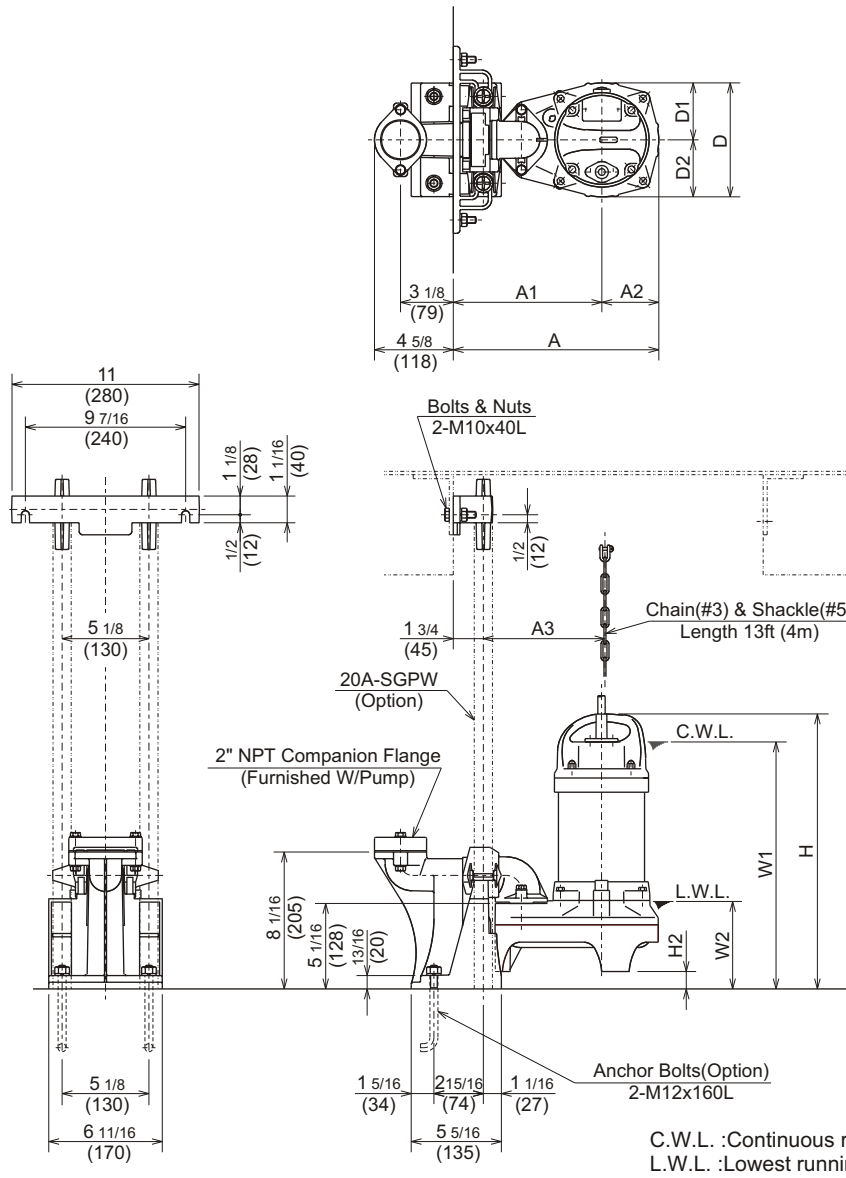
Model	kW	NOM. SIZE	Pump & Motor									C.W.L. W1	L.W.L. W2	Wt. (kg)
			A	A1	A2	A3	D	D1	D2	H	H2			
TOK80PU21.5	1.5	80	396	297	99	231	196	92	104	489	14	441	164	15.8



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

TOK50PU2.25S
TOK50PU2.25
TOK50PU2.4S
TOK50PU2.4
TOK50PU2.75S
TOK50PU2.75



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor									C.W.L. W1	L.W.L. W2	Wt. (lbs.)
			A	A1	A2	A3	D	D1	D2	H	H2			
TOK50PU2.25S	1/3	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16	1	14 3/8	5 1/8	17.0
TOK50PU2.25	1/3	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16	1	14 3/8	5 1/8	15.6
TOK50PU2.4S	1/2	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16 5/16	1	14 5/8	5 1/8	18.5
TOK50PU2.4	1/2	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16 5/16	1	14 5/8	5 1/8	17.4
TOK50PU2.75S	1	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16 7/8	1	15 1/4	5 1/8	23.6
TOK50PU2.75	1	2"	12 1/16	8 3/4	3 3/8	7 3/8	6 11/16	3 3/8	3 3/8	16 7/8	1	15 1/4	5 1/8	21.1

DIMENSIONS:METRIC (mm)

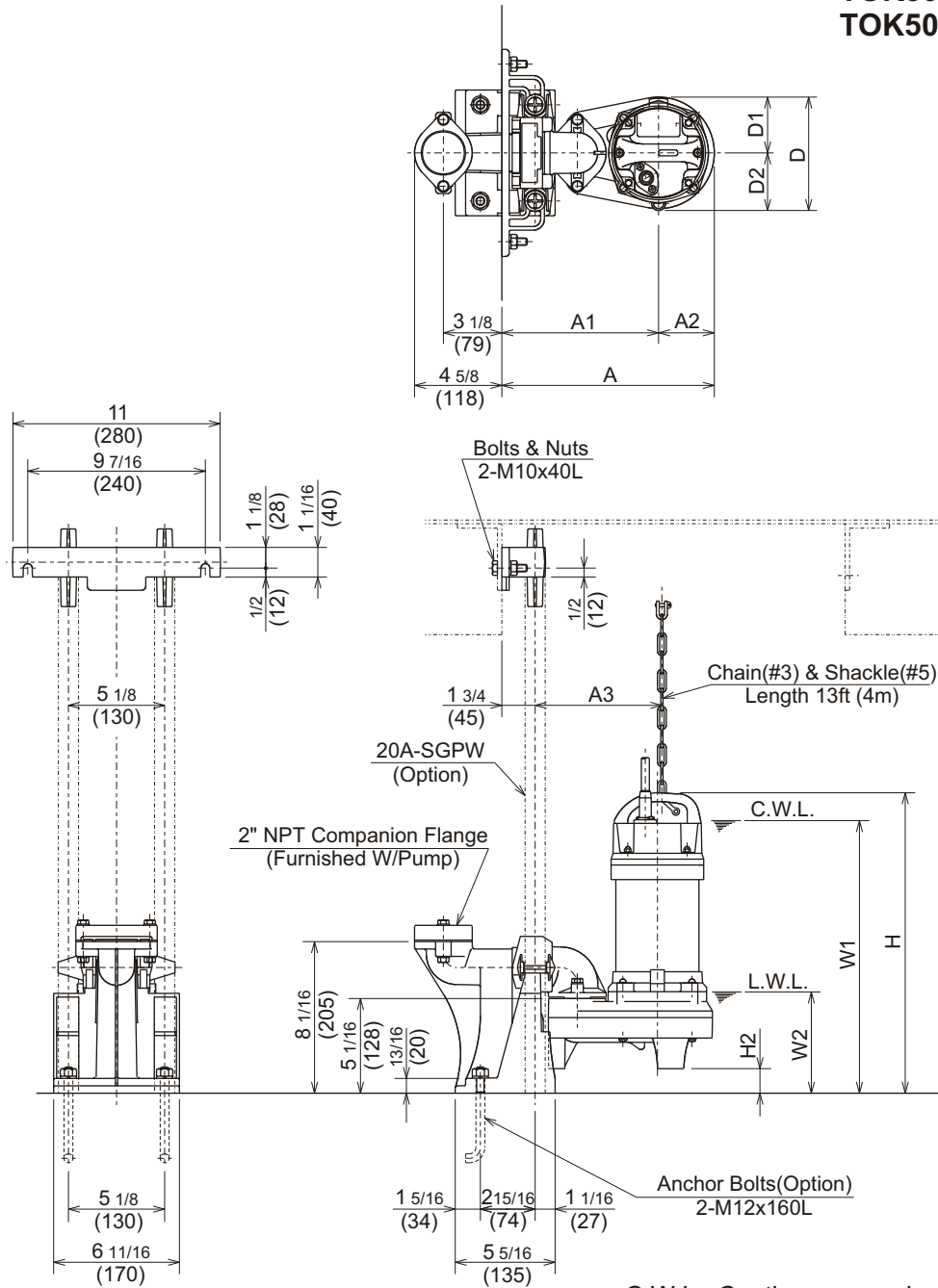
Model	kW	NOM. SIZE	Pump & Motor									C.W.L. W1	L.W.L. W2	Wt. (kg)
			A	A1	A2	A3	D	D1	D2	H	H2			
TOK50PU2.25S	0.25	50	307	222	85	187	170	85	85	406	26	364	131	7.7
TOK50PU2.25	0.25	50	307	222	85	187	170	85	85	406	26	364	131	7.1
TOK50PU2.4S	0.40	50	307	222	85	187	170	85	85	414	26	372	131	8.4
TOK50PU2.4	0.40	50	307	222	85	187	170	85	85	414	26	372	131	7.9
TOK50PU2.75S	0.75	50	307	222	85	187	170	85	85	429	26	387	131	10.7
TOK50PU2.75	0.75	50	307	222	85	187	170	85	85	429	26	387	131	9.6



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

TOK50PU2.15S
TOK50PU2.15



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

DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor										C.W.L.	L.W.L.	Wt. (lbs.)
			A	A1	A2	A3	D	D1	D2	H	H2	W1			
TOK50PU2.15S	1/5	2"	11 5/16	8 3/8	3	7 1/16	6 1/16	3	3 1/16	16 1/8	1 1/4	14 5/8	5 3/8	14.5	
TOK50PU2.15	1/5	2"	11 5/16	8 3/8	3	7 1/16	6 1/16	3	3 1/16	16 1/8	1 1/4	14 5/8	5 3/8	12.8	

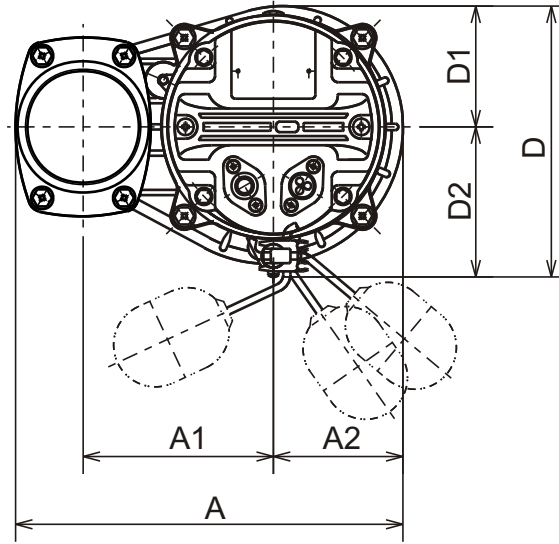
DIMENSIONS:METRIC (mm)

Model	kW	NOM. SIZE	Pump & Motor										C.W.L.	L.W.L.	Wt. (kg)
			A	A1	A2	A3	D	D1	D2	H	H2	W1			
TOK50PU2.15S	0.15	50	288	212	76	180	154	76	78	410	32	372	137	6.6	
TOK50PU2.15	0.15	50	288	212	76	180	154	76	78	410	32	372	137	5.8	

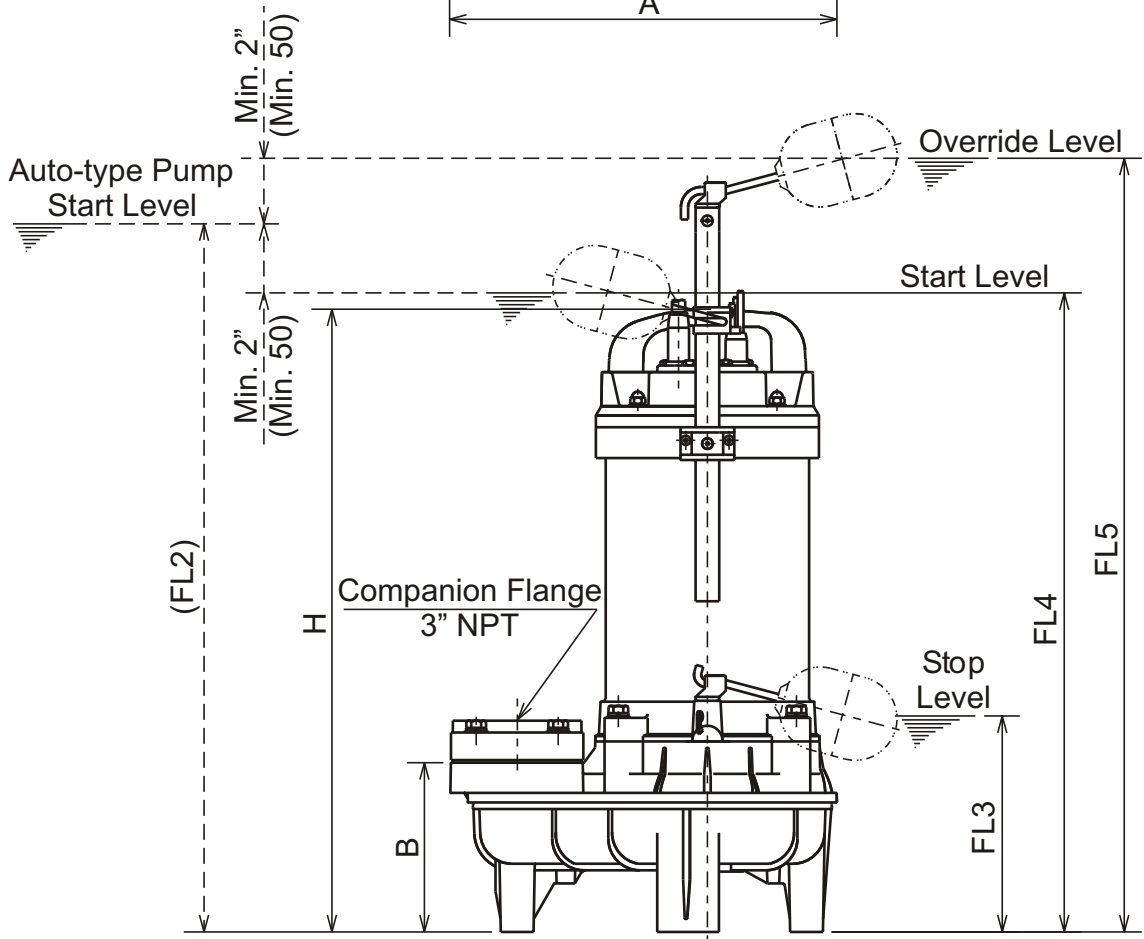


VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS



80PUW21.5



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor								Stop	Start	Override	Wt. (lbs.)
			A	A1	A2	B	D	D1	D2	H	FL3	Max.FL4	Max.FL5	
80PUW21.5	2	3"	11 5/8	5 11/16	3 7/8	5 1/8	8 1/8	3 5/8	4 1/2	18 11/16	7	24 1/8	28 1/8	36.8

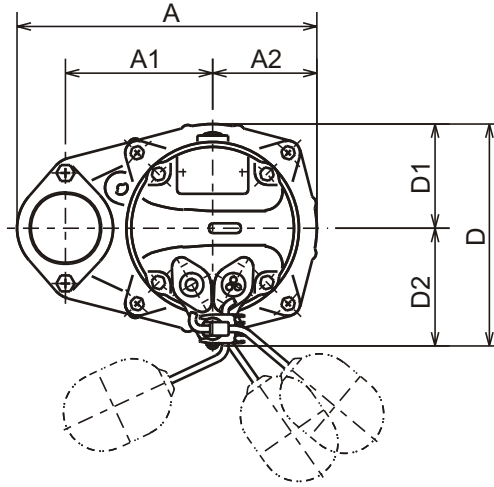
DIMENSIONS:METRIC (mm)

Model	kW	NOM. SIZE	Pump & Motor								Stop	Start	Start	Wt. (kg)
			A	A1	A2	B	D	D1	D2	H	FL3	FL4	FL5	
80PUW21.5	1.5	80	295	145	99	130	206	92	114	475	178	613	713	16.7

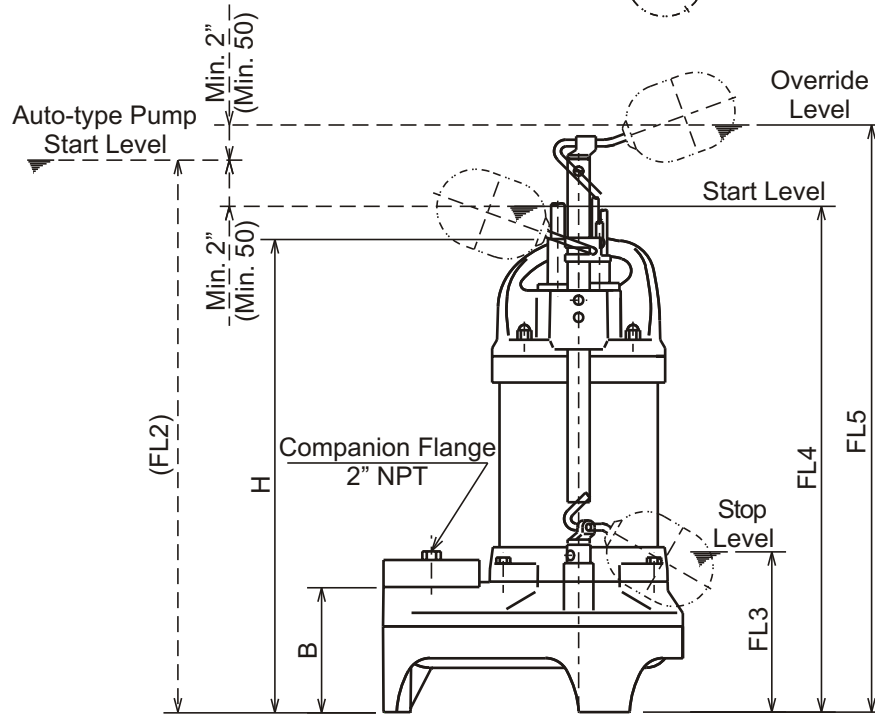


VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS



50PUW2.25S
50PUW2.25
50PUW2.4S
50PUW2.4
50PUW2.75S
50PUW2.75



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor								Stop	Start	Override	Wt. (lbs.)
			A	A1	A2	B	D	D1	D2	H	FL3	Max.FL4	Max.FL5	
50PUW2.25S	1/3	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	14 15/16	5 1/8	21 1/8	25 3/8	18.5
50PUW2.25	1/3	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	14 15/16	5 1/8	21 1/8	25 3/8	17.0
50PUW2.4S	1/2	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	15 1/4	5 1/8	21 3/8	25 3/4	19.8
50PUW2.4	1/2	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	15 1/4	5 1/8	21 3/8	25 3/4	18.7
50PUW2.75S	1	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	15 7/8	5 1/8	22	26 1/4	24.9
50PUW2.75	1	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	15 7/8	5 1/8	22	26 1/4	22.5

DIMENSIONS:METRIC (mm)

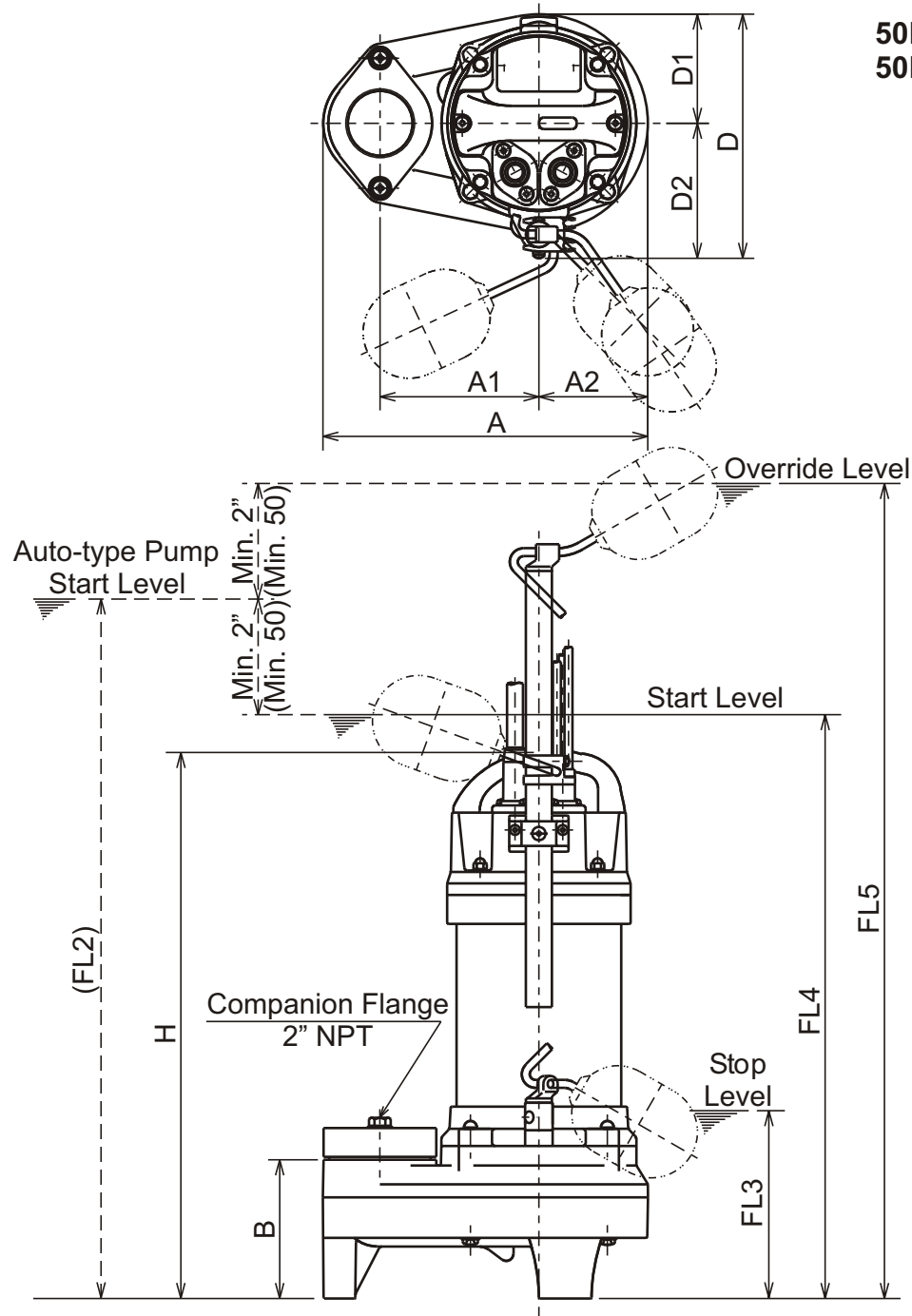
Model	kW	NOM. SIZE	Pump & Motor								Stop	Start	Override	Wt. (kg)
			A	A1	A2	B	D	D1	D2	H	FL3	Max.FL4	Max.FL5	
50PUW2.25S	0.25	50	245	120	85	102	181	85	96	380	130	535	645	8.4
50PUW2.25	0.25	50	245	120	85	102	181	85	96	380	130	535	645	7.7
50PUW2.4S	0.40	50	245	120	85	102	181	85	96	388	130	543	653	9.0
50PUW2.4	0.40	50	245	120	85	102	181	85	96	388	130	543	653	8.5
50PUW2.75S	0.75	50	245	120	85	102	181	85	96	403	130	558	668	11.3
50PUW2.75	0.75	50	245	120	85	102	181	85	96	403	130	558	668	10.2



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

50PUW2.15S
50PUW2.15



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor							H	Stop FL3	Start Max.FL4	Override Max.FL5	Wt. (lbs.)
			A	A1	A2	B	D	D1	D2					
50PUW2.15S	1/5	2"	8 7/8	4 5/16	3	3 3/4	6 11/16	3	3 11/16	14 7/8	5 1/8	21 1/8	25 3/8	15.6
50PUW2.15	1/5	2"	8 7/8	4 5/16	3	3 3/4	6 11/16	3	3 11/16	14 7/8	5 1/8	21 1/8	25 3/8	13.9

DIMENSIONS:METRIC (mm)

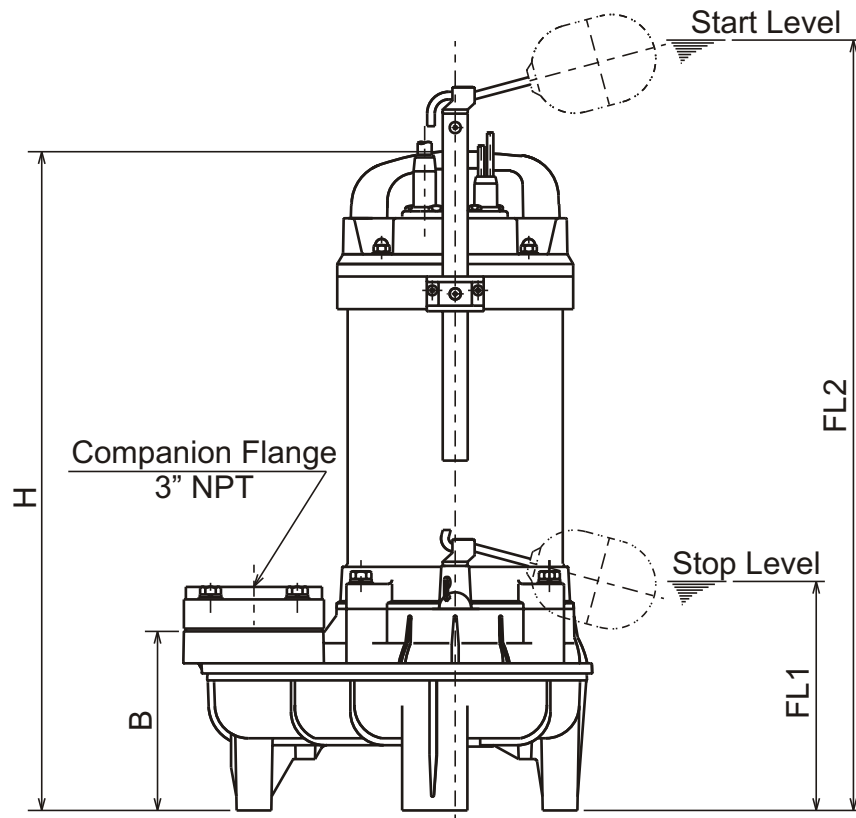
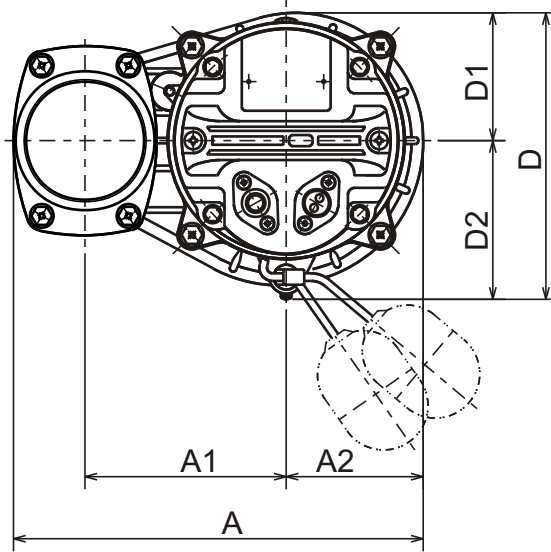
Model	kW	NOM. SIZE	Pump & Motor							H	Stop FL3	Start Max.FL4	Override Max.FL5	Wt. (kg)
			A	A1	A2	B	D	D1	D2					
50PUW2.15S	0.15	50	225	110	76	96	170	76	94	378	130	535	645	7.1
50PUW2.15	0.15	50	225	110	76	96	170	76	94	378	130	535	645	6.3



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

80PUA21.5



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor								Stop	Start	Wt. (lbs.)
			A	A1	A2	B	D	D1	D2	H	FL1	Max.FL2	
80PUA21.5	2	3"	11 5/8	5 11/16	3 7/8	5 1/8	8 1/8	3 5/8	4 1/2	18 11/16	7	26 1/8	36.3

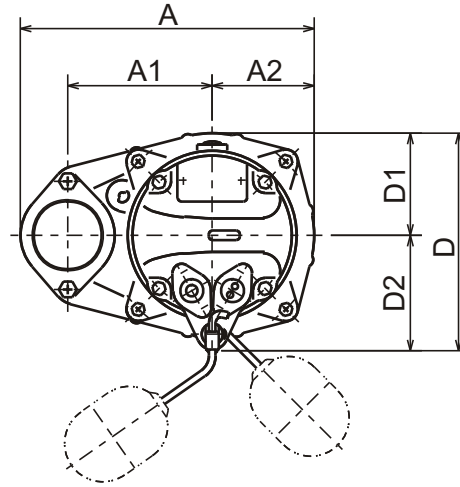
DIMENSIONS:METRIC (mm)

Model	kW	NOM. SIZE	Pump & Motor								Stop	Start	Wt. (kg)
			A	A1	A2	B	D	D1	D2	H	FL1	Max.FL2	
80PUA21.5	1.5	80	295	145	99	130	206	92	114	475	178	663	16.5

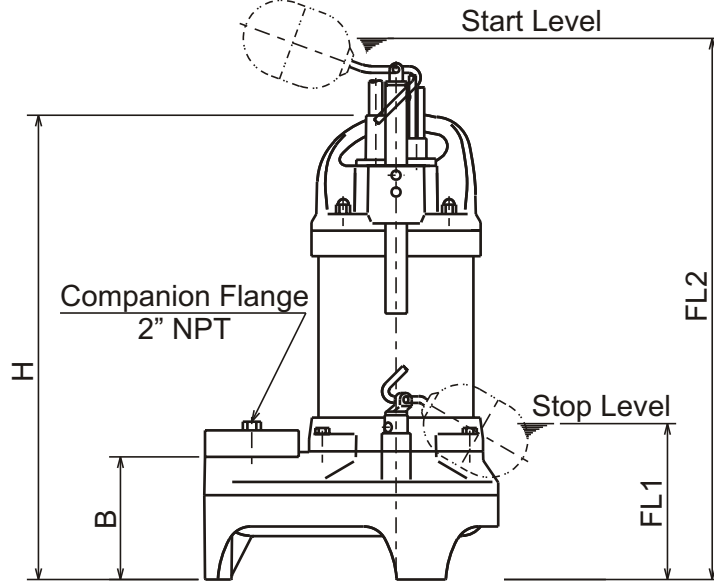


VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS



- 50PUA2.25S
- 50PUA2.25
- 50PUA2.4S
- 50PUA2.4
- 50PUA2.75S
- 50PUA2.75



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor								Stop	Start	Wt. (lbs.)
			A	A1	A2	B	D	D1	D2	H	FL1	Max.FL2	
50PUA2.25S	1/3	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	14 15/16	5 1/8	23	18.1
50PUA2.25	1/3	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	14 15/16	5 1/8	23	16.7
50PUA2.4S	1/2	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	15 1/4	5 1/8	23 3/8	19.6
50PUA2.4	1/2	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	15 1/4	5 1/8	23 3/8	18.5
50PUA2.75S	1	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	15 7/8	5 1/8	23 7/8	24.7
50PUA2.75	1	2"	9 5/8	4 3/4	3 3/8	4	7 1/8	3 3/8	3 3/4	15 7/8	5 1/8	23 7/8	22.2

DIMENSIONS:METRIC (mm)

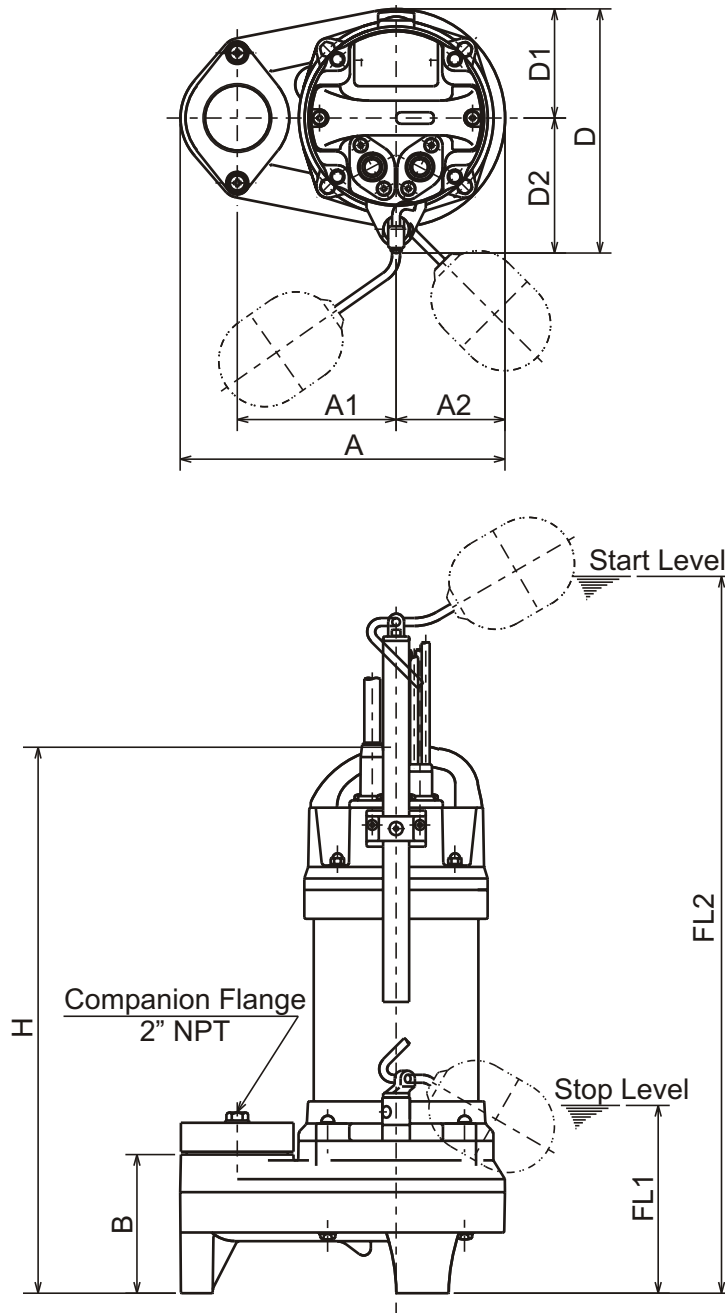
Model	kW	NOM. SIZE	Pump & Motor								Stop	Start	Wt. (kg)
			A	A1	A2	B	D	D1	D2	H	FL1	Max.FL2	
50PUA2.25S	0.25	50	245	120	85	102	181	85	96	380	130	585	8.2
50PUA2.25	0.25	50	245	120	85	102	181	85	96	380	130	585	7.6
50PUA2.4S	0.40	50	245	120	85	102	181	85	96	388	130	593	8.9
50PUA2.4	0.40	50	245	120	85	102	181	85	96	388	130	593	8.4
50PUA2.75S	0.75	50	245	120	85	102	181	85	96	403	130	608	11.2
50PUA2.75	0.75	50	245	120	85	102	181	85	96	403	130	608	10.1



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

50PUA2.15S
50PUA2.15



DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor							Stop	Start	Wt. (lbs.)	
			A	A1	A2	B	D	D1	D2	H	FL1		Max.FL2
50PUA2.15S	1/5	2"	8 7/8	4 5/16	3	3 3/4	6 11/16	3	3 11/16	14 7/8	5 1/8	23	15.4
50PUA2.15	1/5	2"	8 7/8	4 5/16	3	3 3/4	6 11/16	3	3 11/16	14 7/8	5 1/8	23	13.7

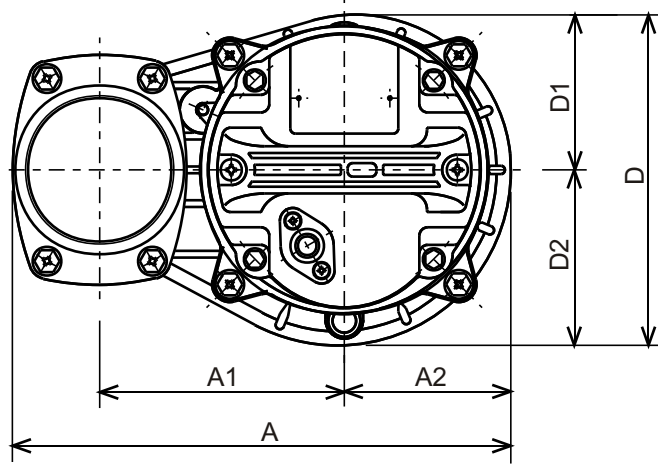
DIMENSIONS:METRIC (mm)

Model	kW	NOM. SIZE	Pump & Motor							Stop	Start	Wt. (kg)	
			A	A1	A2	B	D	D1	D2	H	FL1		Max.FL2
50PUA2.15S	0.15	50	225	110	76	96	170	76	94	378	130	585	7.0
50PUA2.15	0.15	50	225	110	76	96	170	76	94	378	130	585	6.2

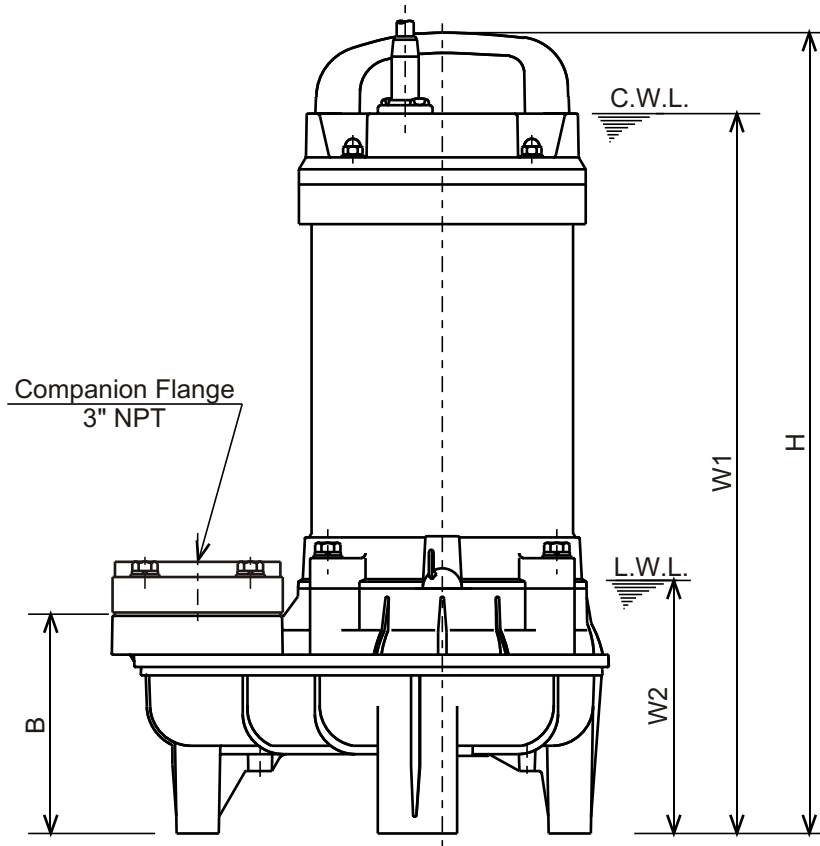


VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS



80PU21.5



Companion Flange
 3" NPT

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

DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor								C.W.L.	L.W.L.	Wt. (lbs.)
			A	A1	A2	B	D	D1	D2	H	W1	W2	
80PU21.5	2	3"	11 5/8	5 11/16	3 7/8	5 1/8	7 11/16	3 5/8	4 1/8	18 11/16	16 3/4	5 7/8	34.8

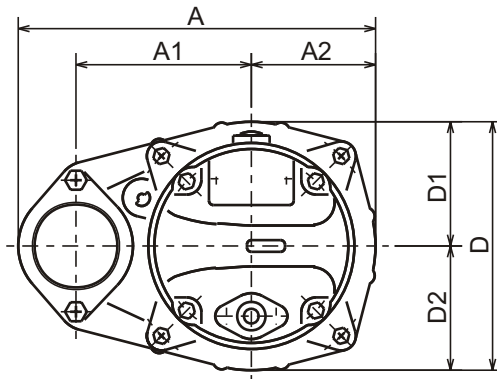
DIMENSIONS:METRIC (mm)

Model	kW	NOM. SIZE	Pump & Motor								C.W.L.	L.W.L.	Wt. (kg)
			A	A1	A2	B	D	D1	D2	H	W1	W2	
80PU21.5	1.5	80	295	145	99	130	196	92	104	475	427	150	15.8

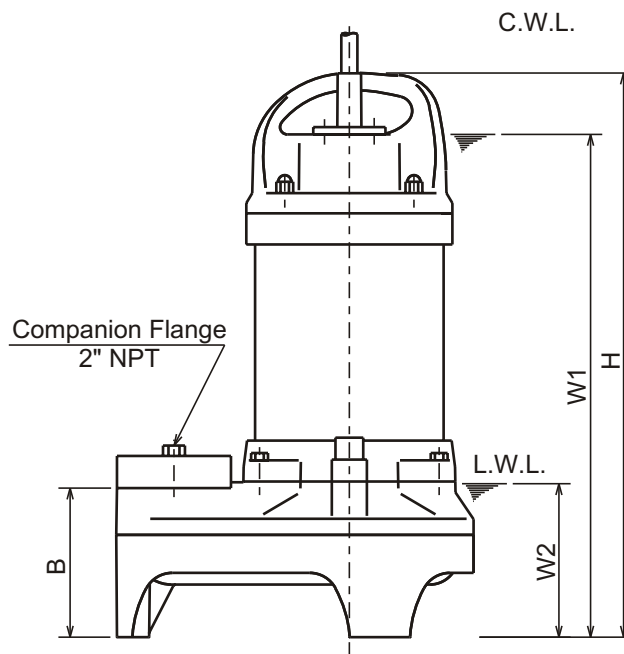


VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS



50PU2.25S
 50PU2.25
 50PU2.4S
 50PU2.4
 50PU2.75S
 50PU2.75



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

DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor								C.W.L. W1	L.W.L. W2	Wt. (lbs.)	
			A	A1	A2	B	D	D1	D2	H				
50PU2.25S	1/3	2"	9 5/8	4 3/4	3 3/8	4	6 11/16	3 3/8	3 3/8	3 3/8	14 15/16	13 1/4	4 1/8	17.0
50PU2.25	1/3	2"	9 5/8	4 3/4	3 3/8	4	6 11/16	3 3/8	3 3/8	3 3/8	14 15/16	13 1/4	4 1/8	15.6
50PU2.4S	1/2	2"	9 5/8	4 3/4	3 3/8	4	6 11/16	3 3/8	3 3/8	3 3/8	15 1/4	13 5/8	4 1/8	18.5
50PU2.4	1/2	2"	9 5/8	4 3/4	3 3/8	4	6 11/16	3 3/8	3 3/8	3 3/8	15 1/4	13 5/8	4 1/8	17.4
50PU2.75S	1	2"	9 5/8	4 3/4	3 3/8	4	6 11/16	3 3/8	3 3/8	3 3/8	15 7/8	14 1/4	4 1/8	23.6
50PU2.75	1	2"	9 5/8	4 3/4	3 3/8	4	6 11/16	3 3/8	3 3/8	3 3/8	15 7/8	14 1/4	4 1/8	21.1

DIMENSIONS:METRIC (mm)

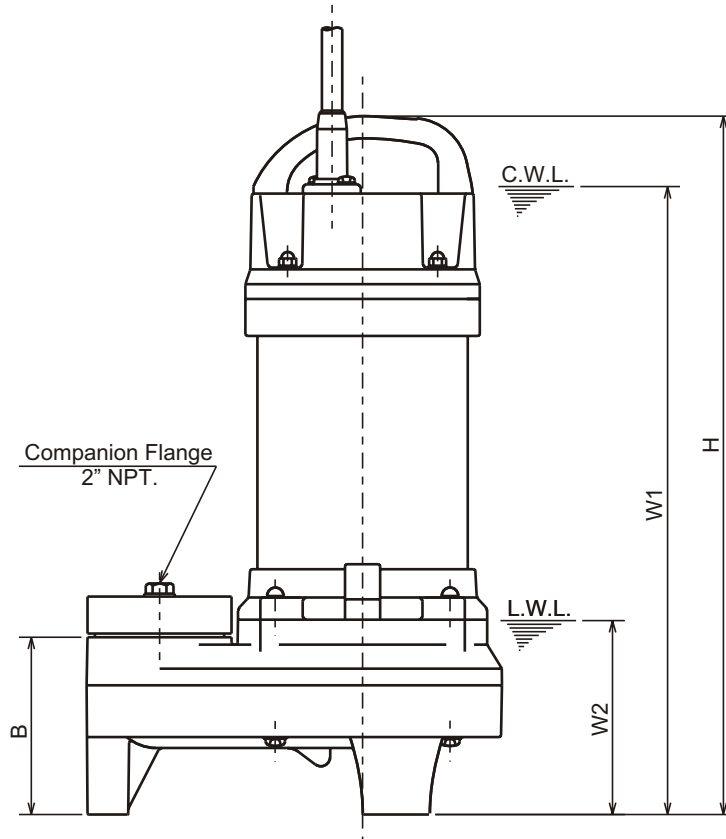
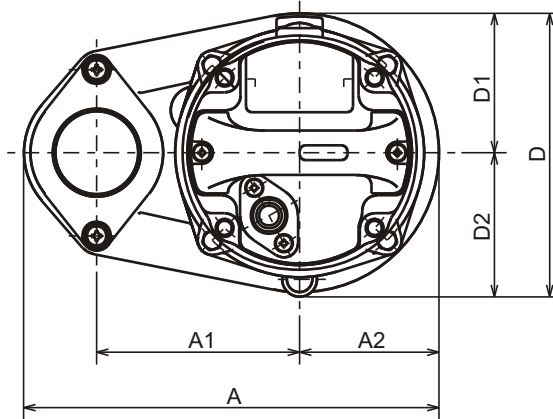
Model	kW	NOM. SIZE	Pump & Motor								C.W.L. W1	L.W.L. W2	Wt. (kg)	
			A	A1	A2	B	D	D1	D2	H				
50PU2.25S	0.25	50	245	120	85	102	170	85	85	85	380	338	105	7.7
50PU2.25	0.25	50	245	120	85	102	170	85	85	85	380	338	105	7.1
50PU2.4S	0.40	50	245	120	85	102	170	85	85	85	388	346	105	8.4
50PU2.4	0.40	50	245	120	85	102	170	85	85	85	388	346	105	7.9
50PU2.75S	0.75	50	245	120	85	102	170	85	85	85	403	361	105	10.7
50PU2.75	0.75	50	245	120	85	102	170	85	85	85	403	361	105	9.6



VANCS-SERIES - PU
(FRP) SEMI-VORTEX - SEWAGE & WASTEWATER PUMPS

DIMENSIONS

50PU2.15S
50PU2.15



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

DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor								C.W.L. W1	L.W.L. W2	Wt. (lbs.)
			A	A1	A2	B	D	D1	D2	H			
50PU2.15S	1/5	2"	8 7/8	4 5/16	3	3 3/4	6 1/16	3	3 1/16	14 7/8	13 3/8	4 1/8	14.5
50PU2.15	1/5	2"	8 7/8	4 5/16	3	3 3/4	6 1/16	3	3 1/16	14 7/8	13 3/8	4 1/8	12.8

DIMENSIONS:METRIC (mm)

Model	kW	NOM. SIZE	Pump & Motor								C.W.L. W1	L.W.L. W2	Wt. (kg)
			A	A1	A2	B	D	D1	D2	H			
50PU2.15S	0.15	50	225	110	76	96	154	76	78	378	340	105	6.6
50PU2.15	0.15	50	225	110	76	96	154	76	78	378	340	105	5.8