



FLORIDA DEPARTMENT OF Environmental Protection

Northwest District
160 W. Government Street, Suite 308
Pensacola, FL 32502

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

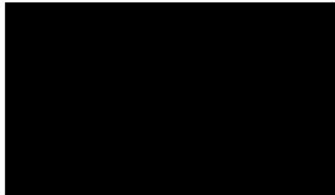
Shawn Hamilton
Secretary

July 19, 2022

BY ELECTRONIC MAIL
chuck@tpr-totalhomes.com

In the Matter of an
Application for Permit by:

PERMITTEE:



PERMIT NUMBER: 0423613-001-DWC/CL

COUNTY: Bay

PROJECT NAME: Chelsea Drive Low Pressure Sewer Force Main
WASTEWATER TREATMENT Panama City Bch WWTP No 1
FACILITY ID FL0021512

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number 0423613-001-DWC/CL to construct a domestic wastewater collection/transmission system, issued pursuant to 403.087(1), Florida Statutes.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a), F.A.C.

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver may not apply to persons who have not received a clear point-of-entry.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

EXECUTION AND CLERKING

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Katie Ates, P.E.
Water and Wastewater Permitting Manager

Attachment(s):

1. Permit Number 0423613-001-DWC/CL
2. Notice of Permit Issuance for optional newspaper publication

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

Brittany Trumbull, P.E., Anchor Consulting Engineering & Inspection Inc
(btrumbull@anchorcei.com)

Drew Whitman, City of Panama City Beach Utilities (drew.whitmna@pcbfl.gov)

Mark Shaeffer, Utilities Director, Panama City Beach WWTP (mark.shaeffer@pcbfl.gov)

Ralph Miller, Environmental Health Department Director, Bay County
(ralph.miller@flhealth.gov)

Gary Lichtler, OSTDS Supervisor, FL Dept. of Health Bay County (Gary.Lichtler@flhealth.gov)

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

July 19, 2022

Date



FLORIDA DEPARTMENT OF Environmental Protection

Northwest District
160 W. Government Street, Suite 308
Pensacola, FL 32502

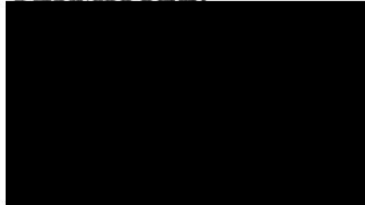
Ron DeSantis
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Shawn Hamilton
Secretary

STATE OF FLORIDA DOMESTIC WASTEWATER COLLECTION/TRANSMISSION INDIVIDUAL PERMIT

PERMITTEE:



PERMIT NUMBER: 0423613-001-DWC/CL

ISSUANCE DATE: July 19, 2022

EXPIRATION DATE: July 18, 2027

COUNTY: Bay

PROJECT NAME: Chelsea Drive Low Pressure Force Main
WASTEWATER TREATMENT: Panama City Bch WWTP No 1
FACILITY ID: FL0021512

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4 and 62-604, Florida Administrative Code (F.A.C.).

The above-named permittee is hereby authorized to construct the facilities shown on the application and drawings and other documents on file with the Department and made a part hereof and specifically described as follows:

DESCRIPTION OF PROJECT:

This project involves a low-pressure sewer (LPS) domestic wastewater collection/transmission system that is constructing approximately 421 linear feet of 2-inch HDPE force main, two grinder pump stations, and 55 linear feet of 2-inch PVC force main to provide service for two single family homes.

The project will connect the proposed 2-inch force main to a proposed 2-inch force main at First Avenue per the 20722 First Ave Grinder Low Pressure Sewer DEP Permit No. 0412840-001-DWC/CL, which has not been cleared for operation. The wastewater from the project will eventually flow to Panama City Beach WWTP No. 1, FL0021512, for treatment.

The construction of the wastewater collection/transmission project shall be in accordance with the Application Construction Plans certified on July 13, 2022, by Brittany Trumbull, P.E., for the design of the wastewater system portion of the project.

LOCATION OF PROJECT: The project site is located along Chelsea Drive between West End Drive and First Avenue in Panama City Beach, Bay County, FL.

IN ACCORDANCE WITH: The limitations, requirements and other conditions set forth in pages 1 through 3 of this permit.

PERMIT CONDITIONS:

1. This permit is subject to the general conditions of Rule 62-4.160, F.A.C., as applicable. This rule is available at the Department's Internet site at:
<http://www.dep.state.fl.us/water/rulesprog.htm#ww> [62-4.160]

2. Upon completion of construction of the collection/transmission system project, and before placing the facilities into operation for any purpose other than testing for leaks or testing equipment operation, the permittee shall submit to the Department's District Office Form 62-604.300(8)(b), Notification of Completion of Construction for a Domestic Wastewater Collection/Transmission System. This form is available at the Department's Internet site at: <https://floridadep.gov/water/domestic-wastewater/content/domestic-wastewater-forms> instructions for submitting forms electronically are available at DEP's wastewater forms webpage or submittal may be made using the DEP Business Portal <https://www.fldepportal.com/DepPortal/go/home> by selecting "Submit," "Registration/Notification," "Submit Notifications to DEP," then choose submission type "Division of Water Resource Management Domestic/Industrial Wastewater" and "Notification of Completion of Construction for a Domestic Wastewater Collection/Transmission System." [62-604.700(2)]
3. The new or modified collection/transmission facilities shall not be placed into service until the Department clears the project for use. [62-604.700(3)]
4. Permit revisions shall only be made in accordance with Rule 62-4.050(4)(s), F.A.C. Request for revisions shall be made to the Department in writing and shall include the appropriate fee. Revisions not covered under Rule 62-4.050(4)(s), F.A.C., shall require a new permit. [62-604.600(8)]
5. Abnormal events shall be reported to the Department's Northwest District Office in accordance with Rule 62-604.550, F.A.C. For unauthorized spills of wastewater in excess of 1000 gallons per incident, or where information indicates that public health or the environment may be endangered, oral reports shall be provided to the STATE WATCH OFFICE TOLL FREE NUMBER, (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee or other designee becomes aware of the circumstances. Unauthorized releases or spills less than 1000 gallons per incident are to be reported orally to the Department's Northwest District Office within 24 hours from the time the permittee, or other designee becomes aware of the circumstances. [62-604.550]
6. In accordance with Section 403.077, F.S., unauthorized releases or spills reportable to the State Watch Office pursuant to paragraph 7 above shall also be reported to the Department within 24 hours from the time the permittee becomes aware of the discharge. The permittee shall provide to the Department information reported to the State Watch Office. Notice of unauthorized releases or spills may be provided to the Department through the Department's Public Notice of Pollution web page at <https://floridadep.gov/pollutionnotice> or by reporting electronically using the Department's Business Portal at <https://www.fldepportal.com/go/> (via "Submit" followed by "Report" or "Registration/Notification").
7. This permit is for CONSTRUCTION ONLY of the collection/transmission system project. This permit does not authorize the connection of this collection/transmission system project to the designated receiving collection/transmission system until the receiving system has been constructed and cleared for use by the Department. The receiving collection/transmission system's proposed 2-inch force main at First Avenue per the 20722 First Ave Grinder Low Pressure Sewer DEP Permit No. 0412840-001-DWC/CL, has not been cleared for operation. This permit shall not be constructed to infer that the clearance necessary for connection shall be granted. Any such clearance shall be granted only when reasonable assurance is given that adequate treatment and disposal is available in accordance with Department rules, regulations, and permits. Partial clearance may be granted, if required. [62-604.130(1) and 62-604.600(7)]

PROJECT NAME: Chelsea Drive Force Main

PERMIT NUMBER: 0423613-001-DWC/CL

Page 3 of 3

8. The City of Panama City Beach shall be the Central Management Entity responsible for operation and maintenance of the on-lot facilities associated with the alternative collection/transmission system authorized by this permit. [62-604.400(3)]

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

A handwritten signature in cursive script, appearing to read "Katie Ates".

Katie Ates, P.E.

Water and Wastewater Permitting Manager

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF PERMIT ISSUANCE

The Department of Environmental Protection gives notice of its issuance of a permit to [REDACTED] to construct the Chelsea Drive Force Main Sewer Project, 0423613-001-DWC/CL, Chapter 403, Florida Statutes. The project site is located along Chelsea Drive between West End Drive and First Avenue in Panama City Beach, Bay County, FL.

The permit and application file are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department's Northwest District Office Pensacola, 160 W Government Street, Suite 308, Pensacola, Florida 32502 or the files are available electronically from the Department's Electronic Document Search Portal using Document Subject 0423613-001 at <http://prodenv.dep.state.fl.us/DepNexus/public/searchPortal>.

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Motor Specifications

Motor design	Air-filled
Applications	Wastewater
Insulation Class	Class B
Max Liquid Temp	0–40° C (32–104° F)
Frequency	60 Hz
RPM	3450

Pump & Motor Data

Impeller	Vortex
Cutter Ring	SUS 440C
Discharge	1.25"
Motor	2 Pole
kW • Hp	2.2 kW • 3 Hp
Phase	1 & 3
Cable	VCT or SJOW/SOW • 30 ft
Protection	Auto-cut

Materials of Construction

Motor Housing	FC-200 Cast iron
Impeller	FC-200 Cast iron
Volute	FC-200 Cast iron
Rotor	SUS 403
Hardware	316 SS
O-Rings	BUNA "N"
Upper Bearing	Roller bearing
Lower Bearing	Roller bearing
Mechanical Seal	Carbon/Ceramic (Lower) Silicon/Silicon (Upper)

Dimensions & Weight

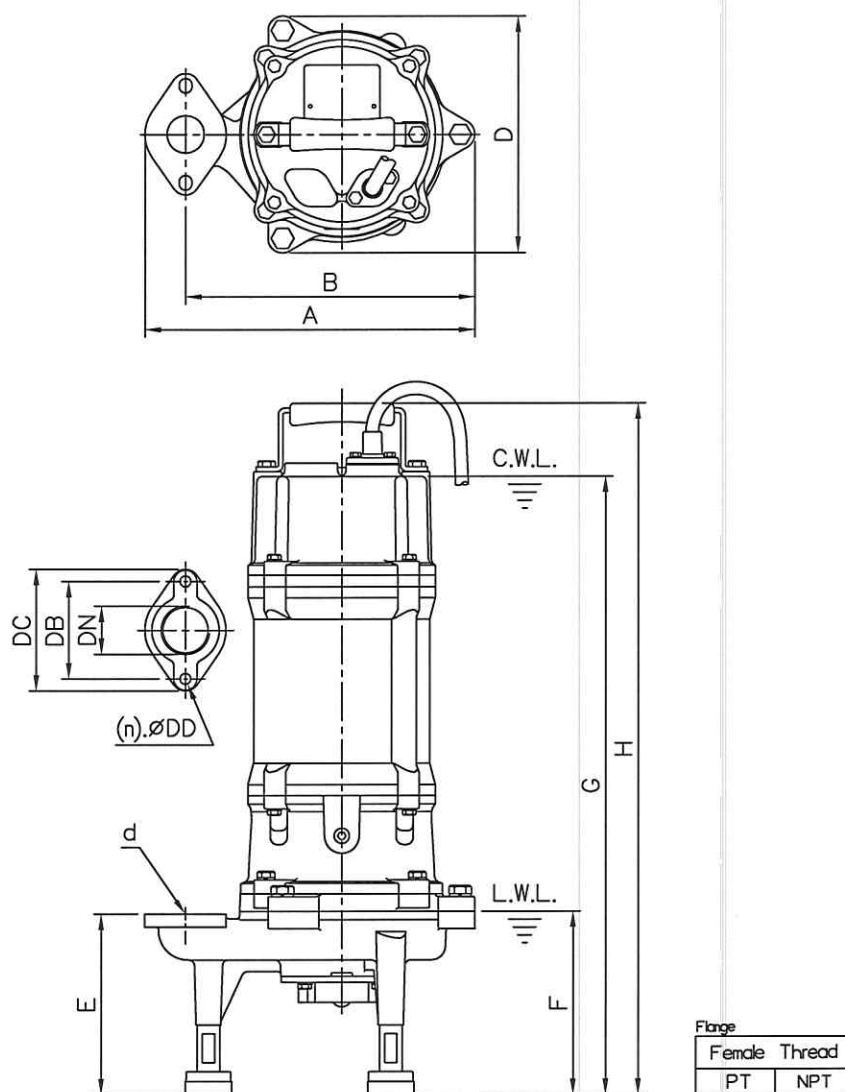
Pump Weight	89 lbs
Max Submergence	100 ft
Optional	Float switch
1Ø AMP	115V — 3Ø 230V 8.4 A
	208V 15.0 A 460V 4.2 A
	230V 14.0 A 575V 3.4 A

DIMENSIONS

No: SFGF0222010-00

MODEL: 32GF21.5/22.2 & 32GF21.5H/22.2H

10



Dimensions-mm

Weight:Kg

Model	d	A	B	D	E	F	G	H	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
32GF21.5	32	285	250	203	156	158	533	596	36	EF1½-84	32	84	105	10	2	1
32GF22.2	32	285	250	203	156	158	560	623	38	EF1½-84	32	84	105	10	2	1
32GF21.5H	32	285	250	203	156	158	533	596	36	EF1½-84	32	84	105	10	2	1
32GF22.2H	32	285	250	203	156	158	560	623	38	EF1½-84	32	84	105	10	2	1

Dimensions-inch

Weight:Lbs

Model	d	A	B	D	E	F	G	H	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
32GF21.5	1¼	11¼	9⅞	8	6⅞	6¼	21	23⅞	79	EF1½-84	1¼	3⅞	4⅞	⅞	2	1
32GF22.2	1¼	11¼	9⅞	8	6⅞	6¼	22⅞	24½	84	EF1½-84	1¼	3⅞	4⅞	⅞	2	1
32GF21.5H	1¼	11¼	9⅞	8	6⅞	6¼	21	23⅞	79	EF1½-84	1¼	3⅞	4⅞	⅞	2	1
32GF22.2H	1¼	11¼	9⅞	8	6⅞	6¼	22⅞	24½	84	EF1½-84	1¼	3⅞	4⅞	⅞	2	1

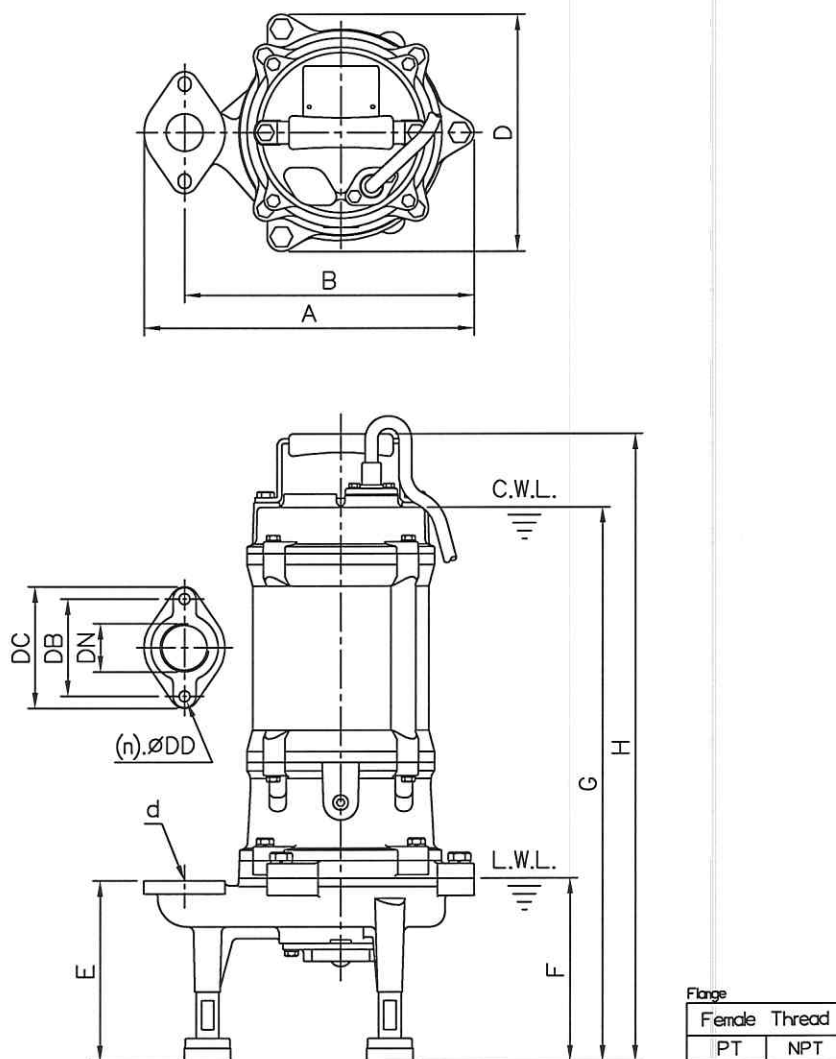
C.W.L.:Continuous Running Water Level WT1:Pump Weight(Without Cable)
 L.W.L.:Lowest Running Water Level WT2:Elbow Set Weight

DIMENSIONS

No: SFGF0222030-00

MODEL: 32GF21.5/22.2 & 32GF21.5H/22.2H

3Ø



Dimensions—mm

Weight:Kg

Model	d	A	B	D	E	F	G	H	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
32GF21.5	32	285	250	203	156	158	478	541	32	EF1¼-84	32	84	105	10	2	1
32GF22.2	32	285	250	203	156	158	478	541	35	EF1¼-84	32	84	105	10	2	1
32GF21.5H	32	285	250	203	156	158	478	541	32	EF1¼-84	32	84	105	10	2	1
32GF22.2H	32	285	250	203	156	158	478	541	35	EF1¼-84	32	84	105	10	2	1

Dimensions—inch

Weight:Lbs

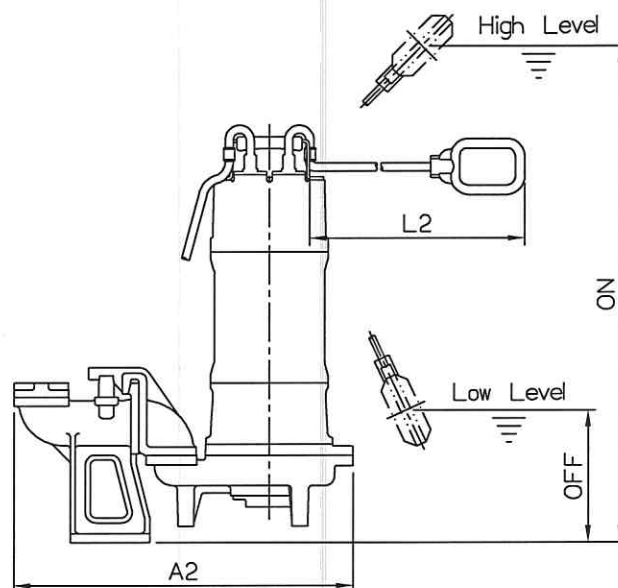
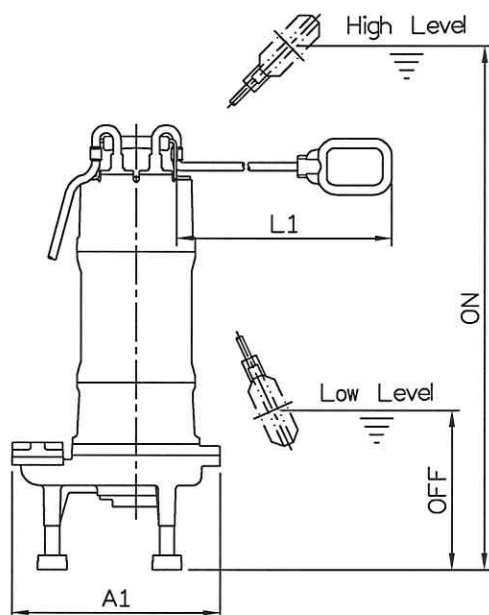
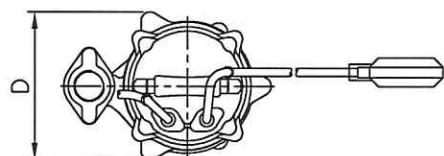
Model	d	A	B	D	E	F	G	H	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
32GF21.5	1¼	11¼	9⅞	8	6⅞	6¼	18⅞	21⅞	71	EF1¼-84	1¼	3⅞	4⅞	⅞	2	1
32GF22.2	1¼	11¼	9⅞	8	6⅞	6¼	18⅞	21⅞	77	EF1¼-84	1¼	3⅞	4⅞	⅞	2	1
32GF21.5H	1¼	11¼	9⅞	8	6⅞	6¼	18⅞	21⅞	71	EF1¼-84	1¼	3⅞	4⅞	⅞	2	1
32GF22.2H	1¼	11¼	9⅞	8	6⅞	6¼	18⅞	21⅞	77	EF1¼-84	1¼	3⅞	4⅞	⅞	2	1

C.W.L.:Continuous Running Water Level WT1:Pump Weight(Without Cable)
L.W.L.:Lowest Running Water Level WT2:Elbow Set Weight

DIMENSIONS

No: SOGF000000F-00

Float Switch Pumps Model



Model	Pump Only														With GRS							
	Dimensions-mm					Weight-kg		Dimensions-inch					Weight-lb		Dimensions-mm				Dimensions-inch			
	A1	D	L1	ON	OFF	WT1	WT2	A1	D	L1	ON	OFF	WT1	WT2	A2	L2	ON	OFF	A2	L2	ON	OFF
32GF21.0F 1Ø	249	177	470	636	266	27.5	0.5	9 ¹³ / ₁₆	6 ¹ / ₁₆	18 ¹ / ₂	25 ¹ / ₁₆	10 ¹ / ₂	60.5	1	432	470	658	288	17	18 ¹ / ₂	25 ¹ / ₁₆	11 ¹ / ₂
32GF21.5F 1Ø	285	203	455	666	216	36.5	0.5	11 ¹ / ₄	8	17 ¹ / ₁₆	26 ¹ / ₄	8 ¹ / ₂	80.5	1	468	455	688	238	18 ¹ / ₁₆	17 ¹ / ₁₆	27 ¹ / ₁₆	9 ³ / ₈
32GF22.2F 1Ø	285	203	455	692	242	38.5	0.5	11 ¹ / ₄	8	17 ¹ / ₁₆	27 ¹ / ₄	9 ¹ / ₂	85	1	468	455	714	264	18 ¹ / ₁₆	17 ¹ / ₁₆	28 ¹ / ₁₆	10 ³ / ₈
32GF21.5HF 1Ø	285	203	455	666	216	36.5	0.5	11 ¹ / ₄	8	17 ¹ / ₁₆	26 ¹ / ₄	8 ¹ / ₂	80.5	1	468	455	688	238	18 ¹ / ₁₆	17 ¹ / ₁₆	27 ¹ / ₁₆	9 ³ / ₈
32GF22.2HF 1Ø	285	203	455	692	242	38.5	0.5	11 ¹ / ₄	8	17 ¹ / ₁₆	27 ¹ / ₄	9 ¹ / ₂	85	1	468	455	714	264	18 ¹ / ₁₆	17 ¹ / ₁₆	28 ¹ / ₁₆	10 ³ / ₈
32GF21.5FDN40 1Ø	255	203	455	666	216	36.5	-	10 ³ / ₁₆	8	17 ¹ / ₁₆	26 ¹ / ₄	8 ¹ / ₂	80.5	-	-	-	-	-	-	-	-	-
32GF22.2FDN40 1Ø	255	203	455	692	242	39.5	-	10 ³ / ₁₆	8	17 ¹ / ₁₆	27 ¹ / ₄	9 ¹ / ₂	87	-	-	-	-	-	-	-	-	-
32GF21.0F 3Ø	249	177	470	636	266	26	0.5	9 ¹³ / ₁₆	6 ¹ / ₁₆	18 ¹ / ₂	25 ¹ / ₁₆	10 ¹ / ₂	57	1	432	470	658	288	17	18 ¹ / ₂	25 ¹ / ₁₆	11 ¹ / ₂
32GF21.5F 3Ø	285	203	510	641	271	34.5	0.5	11 ¹ / ₄	8	20 ¹ / ₁₆	25 ¹ / ₄	10 ¹ / ₁₆	76	1	468	510	664	294	18 ¹ / ₁₆	20 ¹ / ₁₆	26 ¹ / ₁₆	11 ¹ / ₁₆
32GF22.2F 3Ø	285	203	510	641	271	37.5	0.5	11 ¹ / ₄	8	20 ¹ / ₁₆	25 ¹ / ₄	10 ¹ / ₁₆	83	1	468	510	664	294	18 ¹ / ₁₆	20 ¹ / ₁₆	26 ¹ / ₁₆	11 ¹ / ₁₆
32GF21.5HF 3Ø	285	203	510	641	271	34.5	0.5	11 ¹ / ₄	8	20 ¹ / ₁₆	25 ¹ / ₄	10 ¹ / ₁₆	76	1	468	510	664	294	18 ¹ / ₁₆	20 ¹ / ₁₆	26 ¹ / ₁₆	11 ¹ / ₁₆
32GF22.2HF 3Ø	285	203	510	641	271	37.5	0.5	11 ¹ / ₄	8	20 ¹ / ₁₆	25 ¹ / ₄	10 ¹ / ₁₆	83	1	468	510	664	294	18 ¹ / ₁₆	20 ¹ / ₁₆	26 ¹ / ₁₆	11 ¹ / ₁₆
32GF21.5FDN40 3Ø	255	203	510	641	271	34.5	-	10 ³ / ₁₆	8	20 ¹ / ₁₆	25 ¹ / ₄	10 ¹ / ₁₆	76	-	-	-	-	-	-	-	-	-
32GF22.2FDN40 3Ø	255	203	510	641	271	38.5	-	10 ³ / ₁₆	8	20 ¹ / ₁₆	25 ¹ / ₄	10 ¹ / ₁₆	85	-	-	-	-	-	-	-	-	-

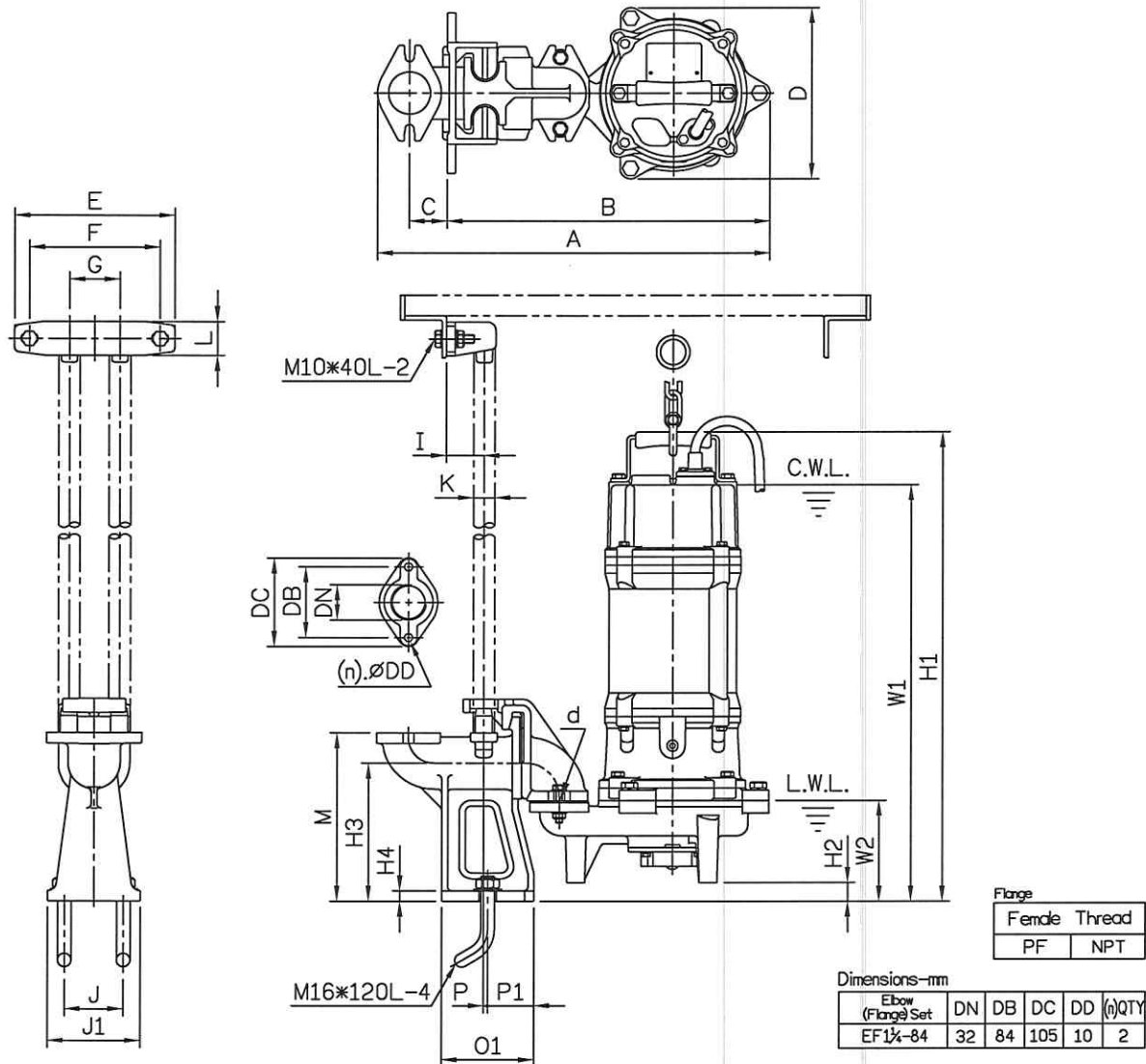
WT1:Pump Weight(including float switch)
WT2:Elbow Set Weight

DIMENSIONS

No: SFGF022201T-00

MODEL: 32GF21.5/22.2 & 32GF21.5H/22.2H

10



Dimensions-mm

Weight:Kg

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
32GF21.5	32	468	385	45	203	190	155	60	45	70	110	¾"	40	201	110	5	55	495	120	558	22	165	13	36	T2-32(50)	8
32GF22.2	32	468	385	45	203	190	155	60	45	70	110	¾"	40	201	110	5	55	522	120	585	22	165	13	38	T2-32(50)	8
32GF21.5H	32	468	385	45	203	190	155	60	45	70	110	¾"	40	201	110	5	55	495	120	558	22	165	13	36	T2-32(50)	8
32GF22.2H	32	468	385	45	203	190	155	60	45	70	110	¾"	40	201	110	5	55	522	120	585	22	165	13	38	T2-32(50)	8

Dimensions-inch

Weight:Lbs

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
32GF21.5	1 ¼	18 ⅞	15 ⅞	1 ¾	8	7 ½	6 ⅝	2 ⅜	1 ¾	2 ¾	4 ⅝	¾	1 ⅞	7 ⅞	4 ⅝	2 ⅜	2 ⅜	19 ½	4 ¾	21 ⅞	⅞	6 ½	½	79	T2-32(50)	18
32GF22.2	1 ¼	18 ⅞	15 ⅞	1 ¾	8	7 ½	6 ⅝	2 ⅜	1 ¾	2 ¾	4 ⅝	¾	1 ⅞	7 ⅞	4 ⅝	2 ⅜	2 ⅜	20 ⅞	4 ¾	23 ⅞	⅞	6 ½	½	84	T2-32(50)	18
32GF21.5H	1 ¼	18 ⅞	15 ⅞	1 ¾	8	7 ½	6 ⅝	2 ⅜	1 ¾	2 ¾	4 ⅝	¾	1 ⅞	7 ⅞	4 ⅝	2 ⅜	2 ⅜	19 ½	4 ¾	21 ⅞	⅞	6 ½	½	79	T2-32(50)	18
32GF22.2H	1 ¼	18 ⅞	15 ⅞	1 ¾	8	7 ½	6 ⅝	2 ⅜	1 ¾	2 ¾	4 ⅝	¾	1 ⅞	7 ⅞	4 ⅝	2 ⅜	2 ⅜	20 ⅞	4 ¾	23 ⅞	⅞	6 ½	½	84	T2-32(50)	18

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

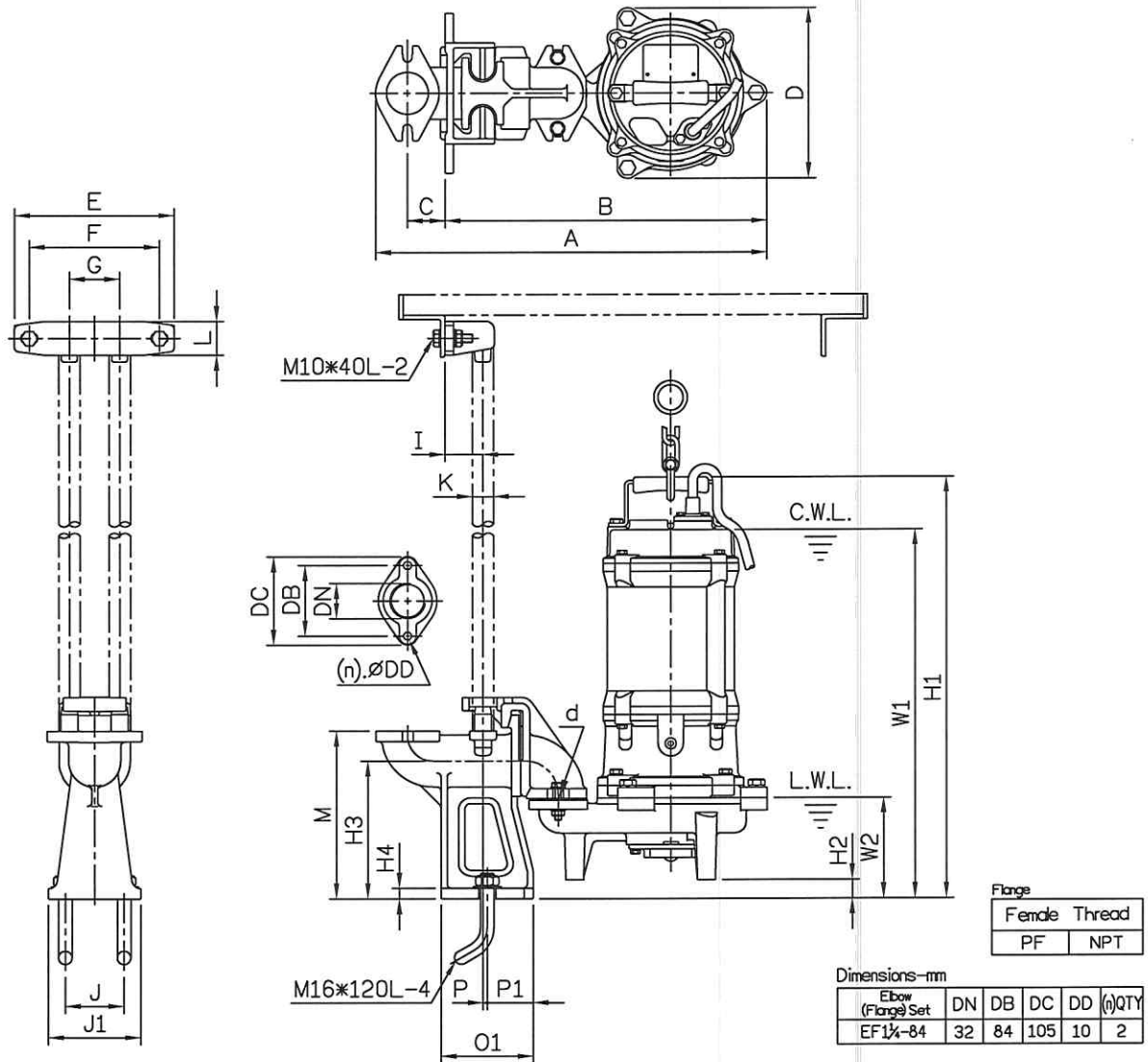
WT1:Pump Weight(Without Cable)
WT2:GRS Set Weight

DIMENSIONS

No: SFGF022203T-00

MODEL: 32GF21.5/22.2 & 32GF21.5H/22.2H

3Ø



Flange	
Female Thread	
PF	NPT

Dimensions-mm						
Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	
EF1½-84	32	84	105	10	2	

Dimensions-inch						
Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	
EF1½-84	1 ¼	3 ⅜	4 ⅜	⅜	2	

Dimensions-mm

Weight:Kg

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
32GF21.5	32	468	385	45	203	190	155	60	45	70	110	¾"	40	201	110	5	55	440	120	503	23	165	13	32	T2-32(50)	8
32GF22.2	32	468	385	45	203	190	155	60	45	70	110	¾"	40	201	110	5	55	440	120	503	23	165	13	35	T2-32(50)	8
32GF21.5H	32	468	385	45	203	190	155	60	45	70	110	¾"	40	201	110	5	55	440	120	503	23	165	13	32	T2-32(50)	8
32GF22.2H	32	468	385	45	203	190	155	60	45	70	110	¾"	40	201	110	5	55	440	120	503	23	165	13	35	T2-32(50)	8

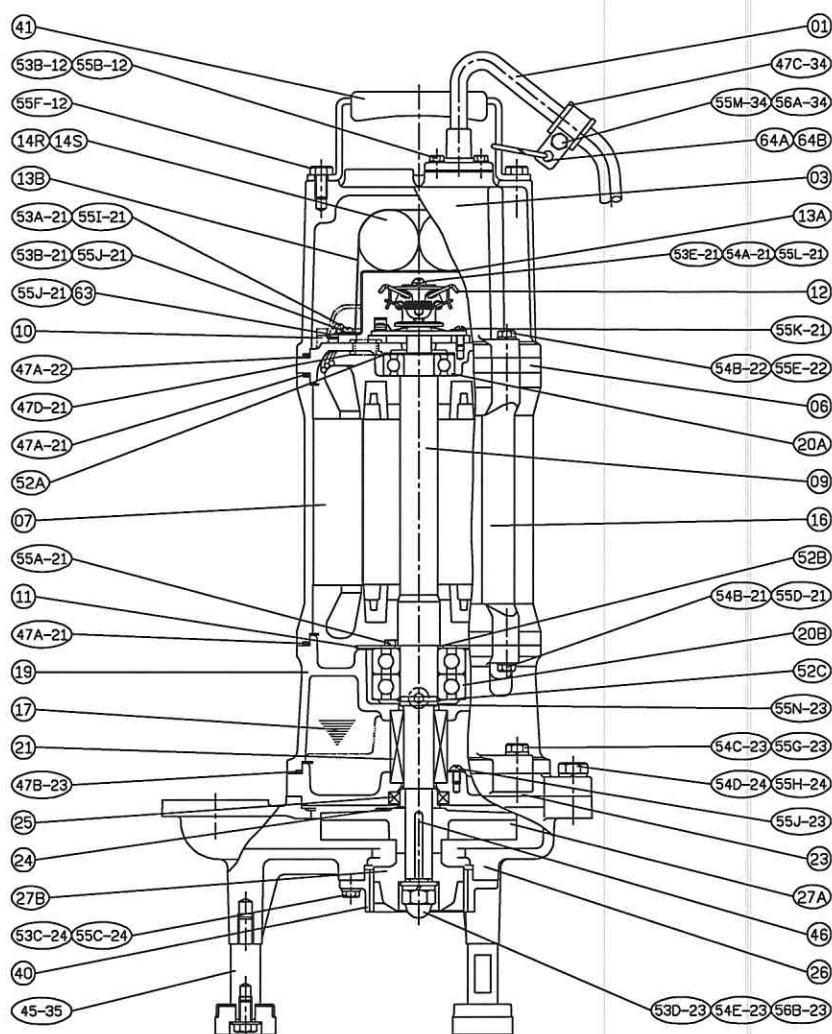
Dimensions-inch

Weight:Lbs

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
32GF21.5	1 ¼	18 ⅞	15 ⅞	1 ¾	8	7 ½	6 ⅞	2 ⅞	1 ¾	2 ¾	4 ⅞	¾	1 ⅞	7 ⅞	4 ⅞	⅝	2 ⅞	17 ⅞	4 ¾	19 ⅞	⅞	6 ½	½	71	T2-32(50)	18
32GF22.2	1 ¼	18 ⅞	15 ⅞	1 ¾	8	7 ½	6 ⅞	2 ⅞	1 ¾	2 ¾	4 ⅞	¾	1 ⅞	7 ⅞	4 ⅞	⅝	2 ⅞	17 ⅞	4 ¾	19 ⅞	⅞	6 ½	½	77	T2-32(50)	18
32GF21.5H	1 ¼	18 ⅞	15 ⅞	1 ¾	8	7 ½	6 ⅞	2 ⅞	1 ¾	2 ¾	4 ⅞	¾	1 ⅞	7 ⅞	4 ⅞	⅝	2 ⅞	17 ⅞	4 ¾	19 ⅞	⅞	6 ½	½	71	T2-32(50)	18
32GF22.2H	1 ¼	18 ⅞	15 ⅞	1 ¾	8	7 ½	6 ⅞	2 ⅞	1 ¾	2 ¾	4 ⅞	¾	1 ⅞	7 ⅞	4 ⅞	⅝	2 ⅞	17 ⅞	4 ¾	19 ⅞	⅞	6 ½	½	77	T2-32(50)	18

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

WT1:Pump Weight(Without Cable)
WT2:GRS Set Weight

SECTIONAL VIEWS**No: 0FGF0222010-02****MODEL: 32GF22.2****10**

No.	Part name	Material	QTY	Remark
01	Cable		1	
03	Upper cover	FC200	1	
06	Bracket	FC200	1	
07	Stator		1	
09	Shaft end	SUS403	1	
10	Auto-cut		1	
11	Bearing fixer	SPCC	1	
12	Centrifugal switch		1	
14R	Capacitor		1	
14S	Start capacitor		1	
16	Motor frame	FC200	1	
17	Lubricant			
19	Bearing bracket	FC200	1	

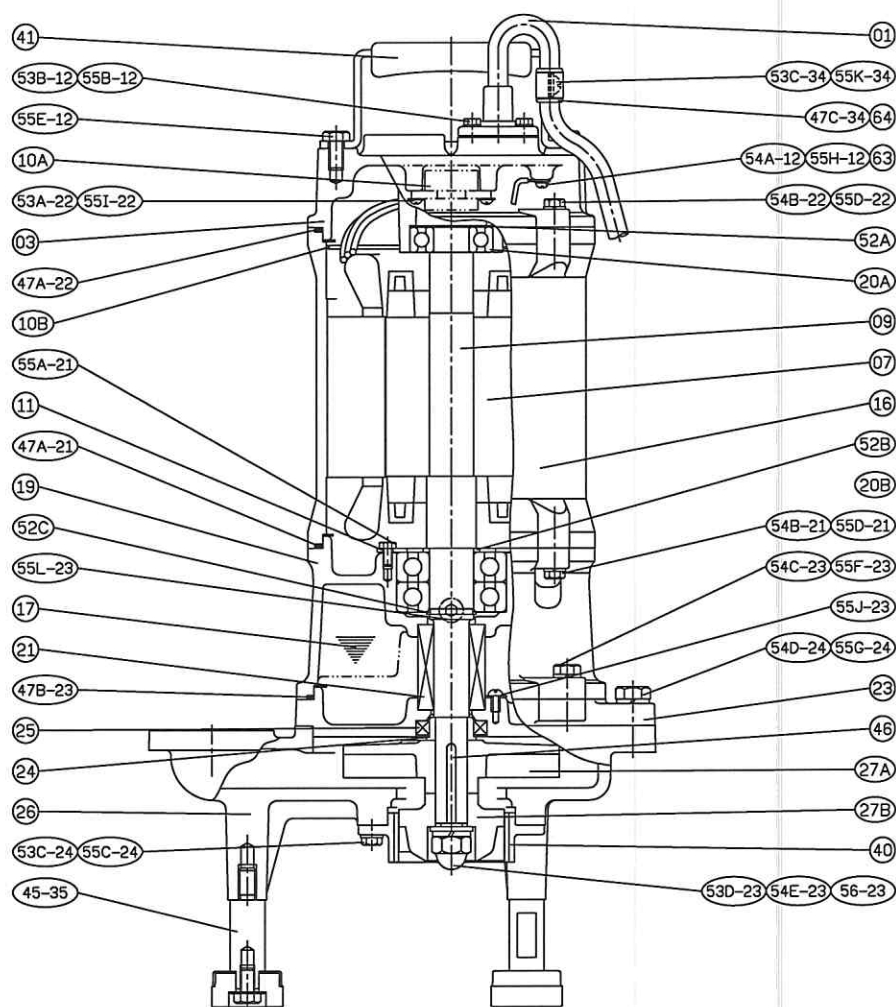
No.	Part name	Material	QTY	Remark
20A	Bearing		1	
20B	Bearing		1	
21	M.seal	CA / CE & SIC / SIC	1	
23	M. seal bracket	FC200	1	
24	Oil seal bush	SUS403	1	
25	Oil seal	NBR	1	
26	Casing	FC200	1	
27A	Impeller	FC200	1	
27B	Radial cutter	SUS40C	1	
40	Cutter ring	SUS40C	1	
41	Handle	SUS304	1	
46	Impeller key	SUS304	1	
47	Packing			

SECTIONAL VIEWS

No: 0FGF0222030-00

MODEL: 32GF21.5 & 32GF22.2

3Ø

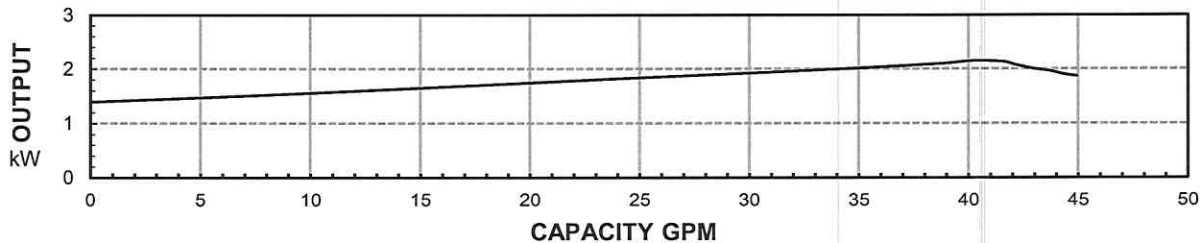
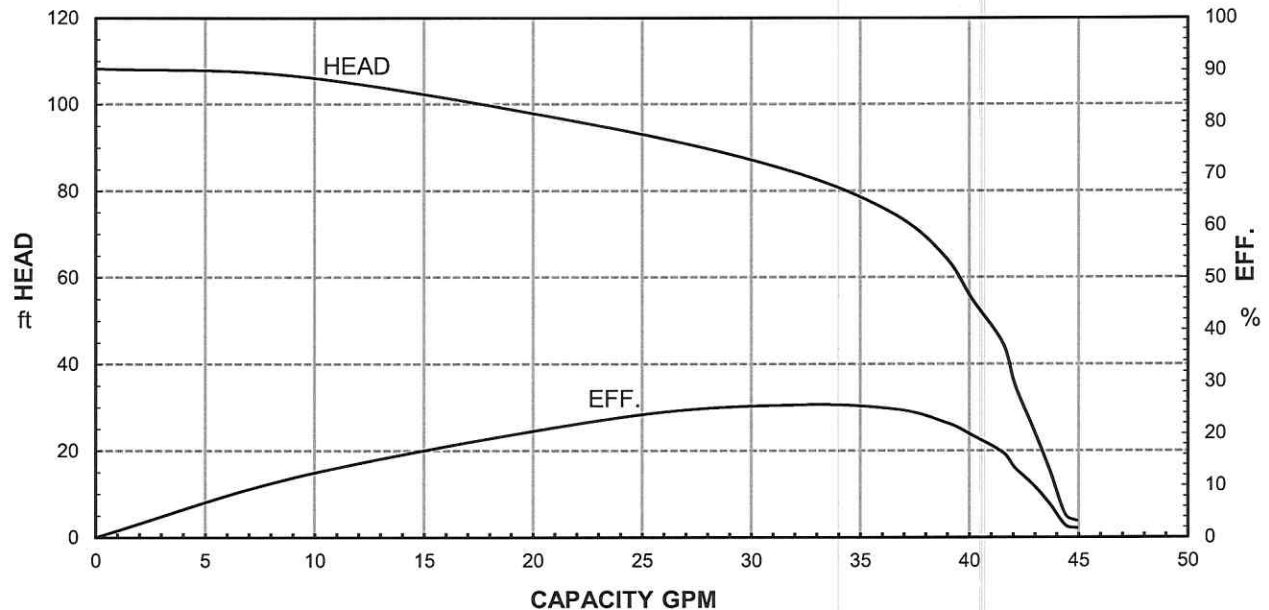


No.	Part name	Material	QTY	Remark
01	Cable		1	
03	Upper cover	FC200	1	
07	Stator		1	
09	Shaft end	SUS403	1	
10A	Auto-cut		1	
10B	Auto-cut plate		1	
11	Bearing fixer	SPCC	1	
16	Motor frame	FC200	1	
17	Lubricant			
19	Bearing bracket	FC200	1	
20A	Bearing		1	
20B	Bearing		1	
21	M.seal	CA / CE & SIC / SIC	1	

No.	Part name	Material	QTY	Remark
23	M. seal bracket	FC200	1	
24	Oil seal bush	SUS403	1	
25	Oil seal	NBR	1	
26	Casing	FC200	1	
27A	Impeller	FC200	1	
27B	Radial cutter	SUS440C	1	
40	Cutter ring	SUS440C	1	
41	Handle	SUS304	1	
46	Impeller key	SUS304	1	
47	Packing			

PUMP PERFORMANCE CURVES

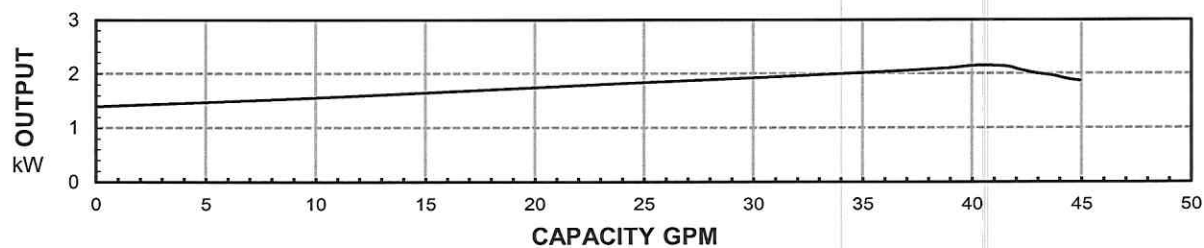
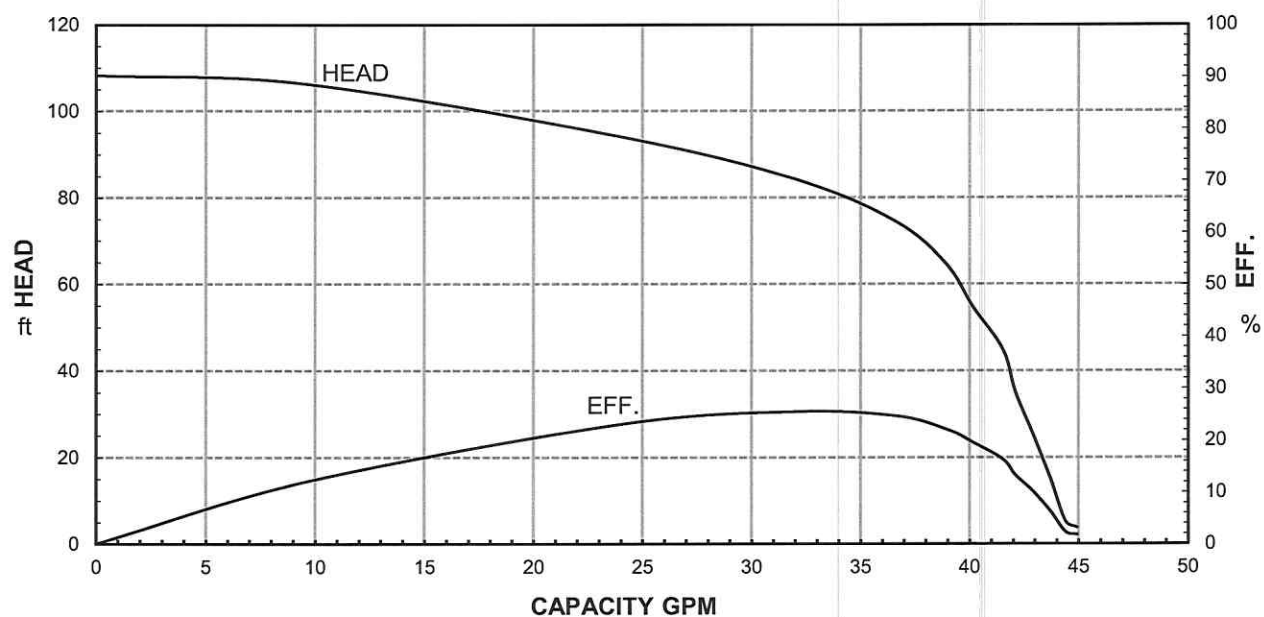
MODEL	32GF22.2						VER. NO. AG1229	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	60						Hz	
DISCHARGE	1¼	inch	/	32	mm			
OUTPUT	3	HP	/	2.2	kW		HP	kW
HEAD	100						ft	
CAPACITY	16						GPM	
PHASE/VOLTAGE	1 Ø	208 V	220 V	230 V			Ø	V
RATED CURRENT		15.0 A	14.4 A	14.0 A				A
POLE / rpm	2	P	/	3450	rpm			
START METHOD	CAPACITOR START							
INSULATION CLASS	B							
REMARK								



HCP PUMP MANUFACTURER CO.,LTD.

PUMP PERFORMANCE CURVES

MODEL	32GF22.2						VER. NO. AG1229	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	60						Hz	
DISCHARGE	1¼	inch	/	32	mm			
OUTPUT	3	HP	/	2.2	kW		HP	kW
HEAD	100						ft	
CAPACITY	16						GPM	
PHASE/VOLTAGE	3 Ø	220 V	230 V	440 V	460 V	575 V	Ø	V
RATED CURRENT		8.6 A	8.4 A	4.3 A	4.2 A	3.4 A		A
POLE / rpm	2	P	/	3450	rpm			
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



HCP PUMP MANUFACTURER CO.,LTD.