FN SERIES
SEWAGE / WASTEWATER SUBMERSIBLE PUMPS

POWER : 2~5HP (1.5~3.7kW)
MAX.HEAD : 26.5m(87feet)
MAX.FLOW : 1.4m³/min (84m³/h)

PRODUCT NOMENCLATURE

Example : FN – 3 3 P

FN	3	3	P
Type	Discharge inch	HP	Impeller type

FEATURE

■A precision manufactured motor is achieved by utilizing the highest standard of quality control. All rotors adopt heat treatment methods for drive shaft assembling, and stator winding impregnated with varnish that is heat dried in an industrial oven. The water resistance for pump can reach IP68 grade.

■HCP's professional assembly line, complimented with a synthesized production test, ensures the highest level of pump quality.

■Standard accessories include : cable with an epoxy resin sealed water-resistant cable base, AC thermal motor protector, dual mechanical seals and lip seal design.

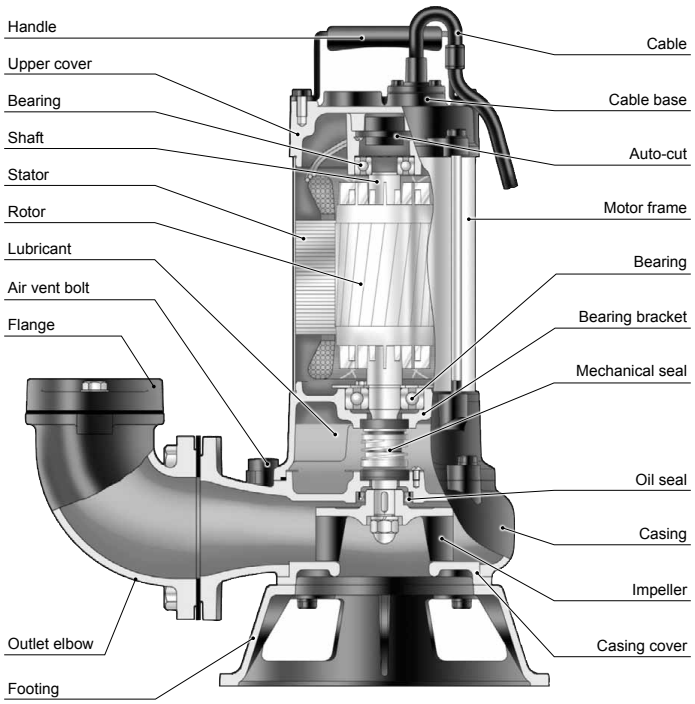
APPLICATIONS

■Drainage of sewage from the building basements, hotel industry, and waste water from factories.

■Drainage of sewage from industrial process factories.

■Emptying of septic tanks, cesspits and sewage pump stations.

■Pumping surface and drainage water from garages and sprinkler systems.



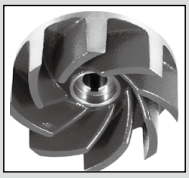
FN SERIES SEWAGE / WASTEWATER SUBMERSIBLE PUMPS
FN-22U · FN-32U · FN-33U · FN-35U

SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	General wastewater Sewage and Industrial water
	Submersion Depth	10m(33feet)
Type	Frequency	50Hz
	Motor	2P(3000rpm) · Dry Motor
	Insulation	Class B (Class F:5HP)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Semi-open
Material	Upper Cover	FC200
	Motor Frame	SUS304
	Shaft End	SUS403
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	FC200
	Footing	FC200
	Cable	VCT or H07RN-F or SJOW/SOW
Optional		–

FN-22U

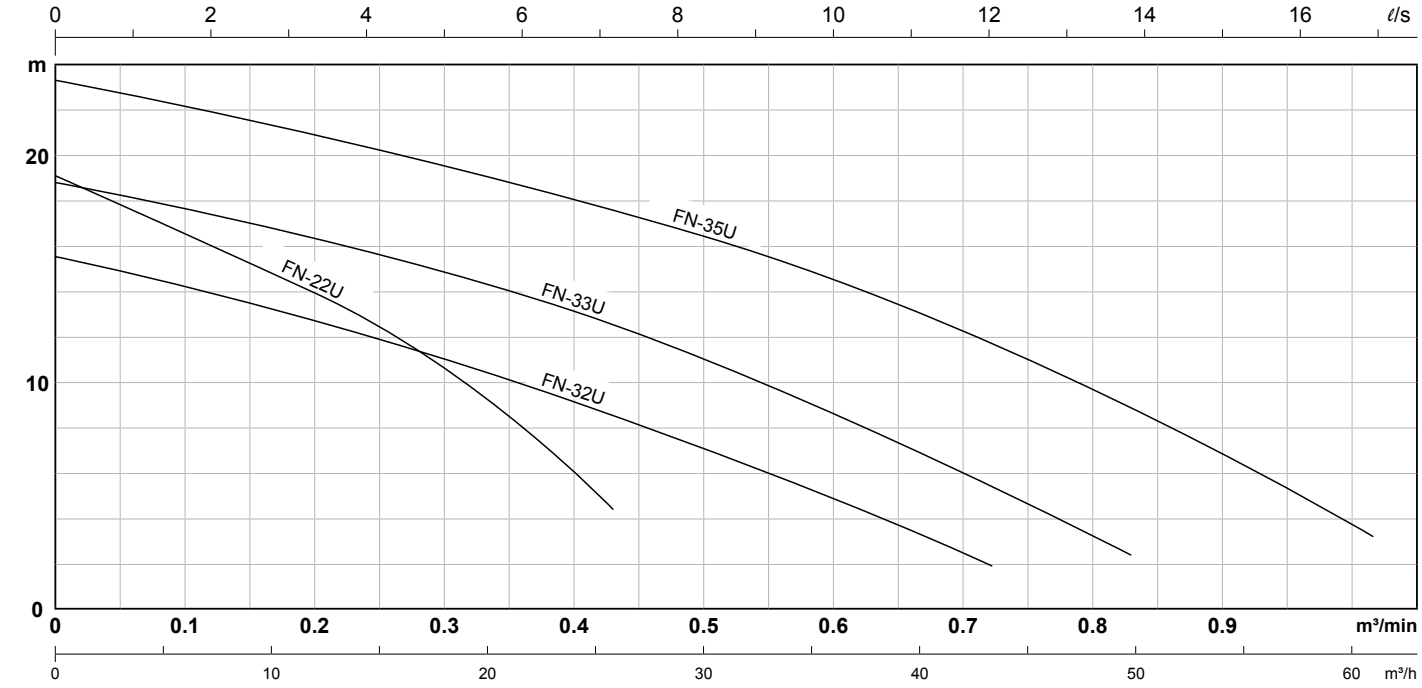
FN-32U · FN-33U · FN-35U



U Type Semi-open Impeller

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase	1Ø	1Ø	3Ø	3Ø	3Ø	3Ø	3Ø
			m-m³/min	m-m³/h	m-m³/min	m-m³/h		1Ø-kg(lb)	3Ø-kg(lb)	Voltage	220V	230V	230V	380V	400V	415V	525V
FN-22U	2(1.5)	2"(50)	14-0.2	14-12	19-0.45	19-27	35($1^3/_8$")	30 (66)	25 (55)	Full load Ampere	10.2	10.0	6.1	3.6	3.5	3.4	2.7
FN-32U	2(1.5)	3"(80)	8.5-0.4	8.5-24	15.5-0.75	15.5-45	50(2")	32 (71)	28 (62)		10.2	10.0	6.1	3.6	3.5	3.4	2.7
FN-33U	3(2.2)	3"(80)	12.5-0.4	12.5-24	19-0.85	19-51	50(2")	35 (77)	30 (66)		15.0	14.6	8.6	5.1	5.0	4.8	3.8
FN-35U	5(3.7)	3"(80)	16.5-0.5	16.5 - 30	23.5-1.05	23.5-63	50(2")	–	33 (73)		–	–	14.3	8.3	7.9	7.9	6.3

PERFORMANCE CURVES



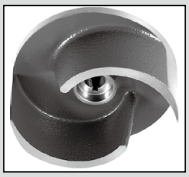
Model	Power HP(kW)	Discharge inch(mm)	Q:m³/min	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	Q:ℓ/s	2	4	6	8	10	12	14	16
			Q:m³/h	6	12	18	24	30	36	48	60									
FN-22U	2 (1.5)	2"(50)	H:m	16.5	13.9	10.6	6.0	–	–	–	–	H:m	16.1	12.8	8.0	–	–	–	–	–
FN-32U	2 (1.5)	3" (80)		14.2	12.7	11.0	9.1	7.1	4.9	–	–		13.9	12.0	9.9	7.5	4.9	2.0	–	–
FN-33U	3 (2.2)	3" (80)		17.6	16.3	14.8	13.1	11.0	8.6	3.2	–		17.4	15.8	13.8	11.5	8.6	5.4	–	–
FN-35U	5 (3.7)	3" (80)		22.2	20.9	19.5	18.1	16.4	14.5	9.7	3.7		21.9	20.3	18.6	16.7	14.5	11.7	8.6	5.0

FN SERIES SEWAGE / WASTEWATER SUBMERSIBLE PUMPS
FN-32P · FN-33P · FN-35P

SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	General wastewater Sewage and Industrial water
	Submersion Depth	10m(33feet)
Type	Frequency	50Hz
	Motor	2P(3000rpm) · Dry Motor
	Insulation	Class B (Class F:5HP)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Semi-open
Material	Upper Cover	FC200
	Motor Frame	SUS304
	Shaft End	SUS403
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	FC200
	Footing	FCD450
	Cable	VCT or H07RN-F or SJOW/SOW
Optional		–

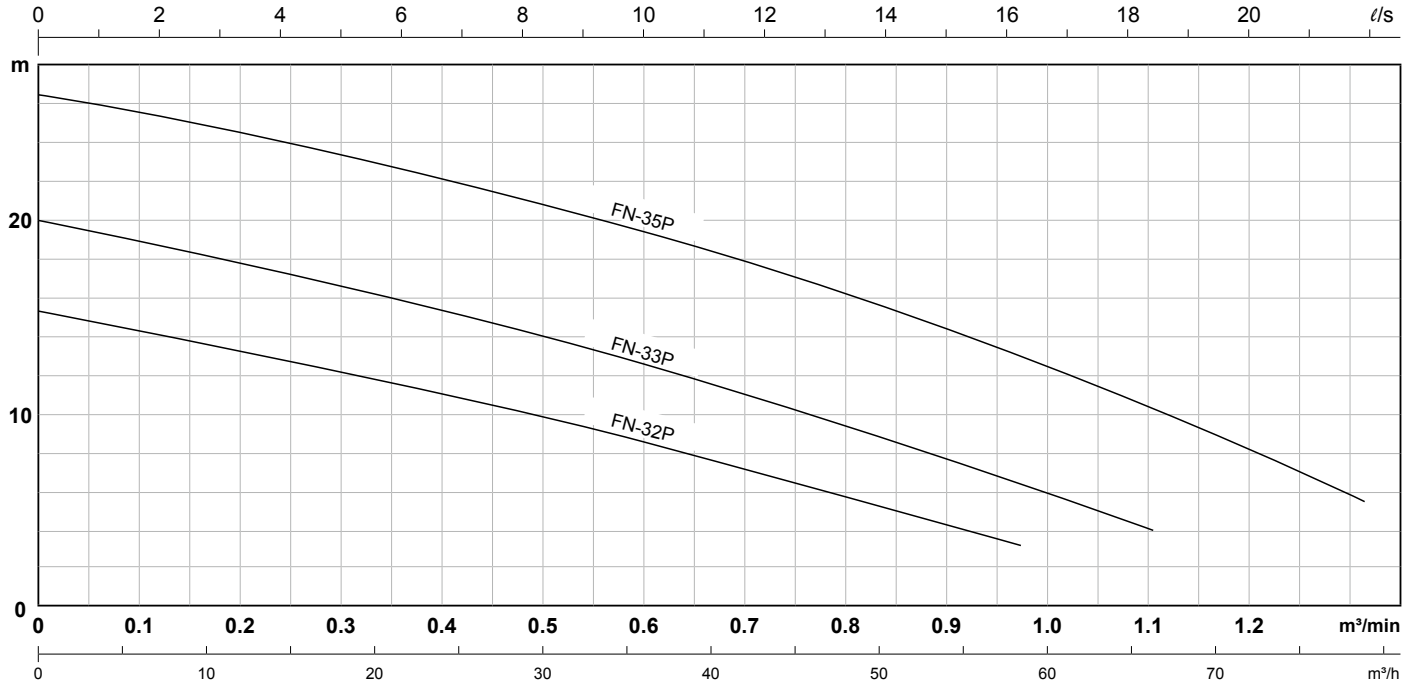
FN-32P · FN-33P · FN-35P



P Type Semi-open Impeller

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase	1Ø	1Ø	3Ø	3Ø	3Ø	3Ø	3Ø
			m-m³/min	m-m³/h	m-m³/min	m-m³/h		1Ø-kg(lb)	3Ø-kg(lb)	Voltage	220V	230V	230V	380V	400V	415V	525V
FN-32P	2 (1.5)	3"(80)	8.5-0.6	8.5-36	15.5-1.05	15.5-63	35($1^3/_8$")	34 (75)	30 (66)	Full load Ampere	10.2	10.0	6.1	3.6	3.5	3.4	2.7
FN-33P	3 (2.2)	3"(80)	12.5-0.6	12.5-36	19-1.15	19-69	35($1^3/_8$")	37 (82)	32 (71)		15.0	14.6	8.6	5.1	5.0	4.8	3.8
FN-35P	5 (3.7)	3"(80)	19-0.6	19-36	26.5-1.4	26.5-84	35($1^3/_8$")	–	35 (77)		–	–	14.3	8.3	7.9	7.9	6.3

PERFORMANCE CURVES



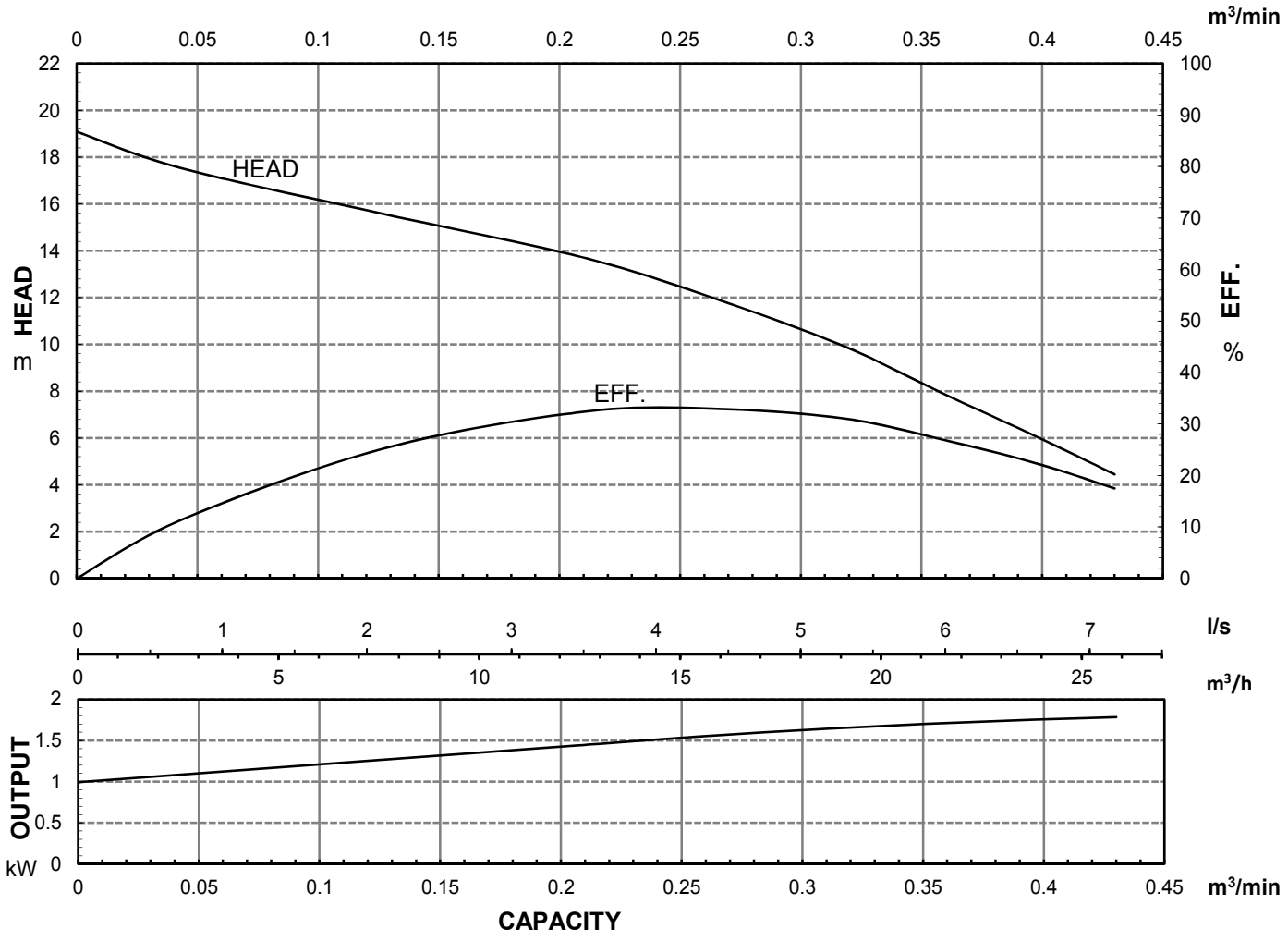
Model	Power HP(kW)	Discharge inch(mm)	Q:m³/min	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	Q:ℓ/s	2	4	6	8	10	12	16	20
			Q:m³/h	6	12	18	24	36	48	60	72									
FN-32P	2 (1.5)	3" (80)	H:m	14.2	13.1	12.1	11.0	8.3	5.6	–	–	H:m	14.1	12.7	11.4	10.0	8.3	6.8	3.3	–
FN-33P	3 (2.2)	3" (80)		18.8	17.7	16.5	15.3	12.5	9.3	5.8	–		18.6	17.2	15.8	14.2	12.5	10.6	6.5	–
FN-35P	5 (3.7)	3" (80)		25.5	24.5	23.3	22.0	19.4	16.1	12.3	8.2		25.3	24.0	22.5	21.0	19.4	17.5	13.4	8.2

HCP PUMP

FILE NO PC-M-E5-FN22U1

PUMP PERFORMANCE CURVES

MODEL	FN-22U						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	2 inch / 50 mm							
OUTPUT	2 HP / 1.5 kW						HP	kW
HEAD	14 m							
CAPACITY	0.2 m^3/min							
PHASE/VOLTAGE	1 Ø	220 V	230 V	240 V			Ø	V
RATED CURRENT		10.2 A	10.0 A	9.8 A				A
POLE / R.P.M.	2 P / 2820 rpm							
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



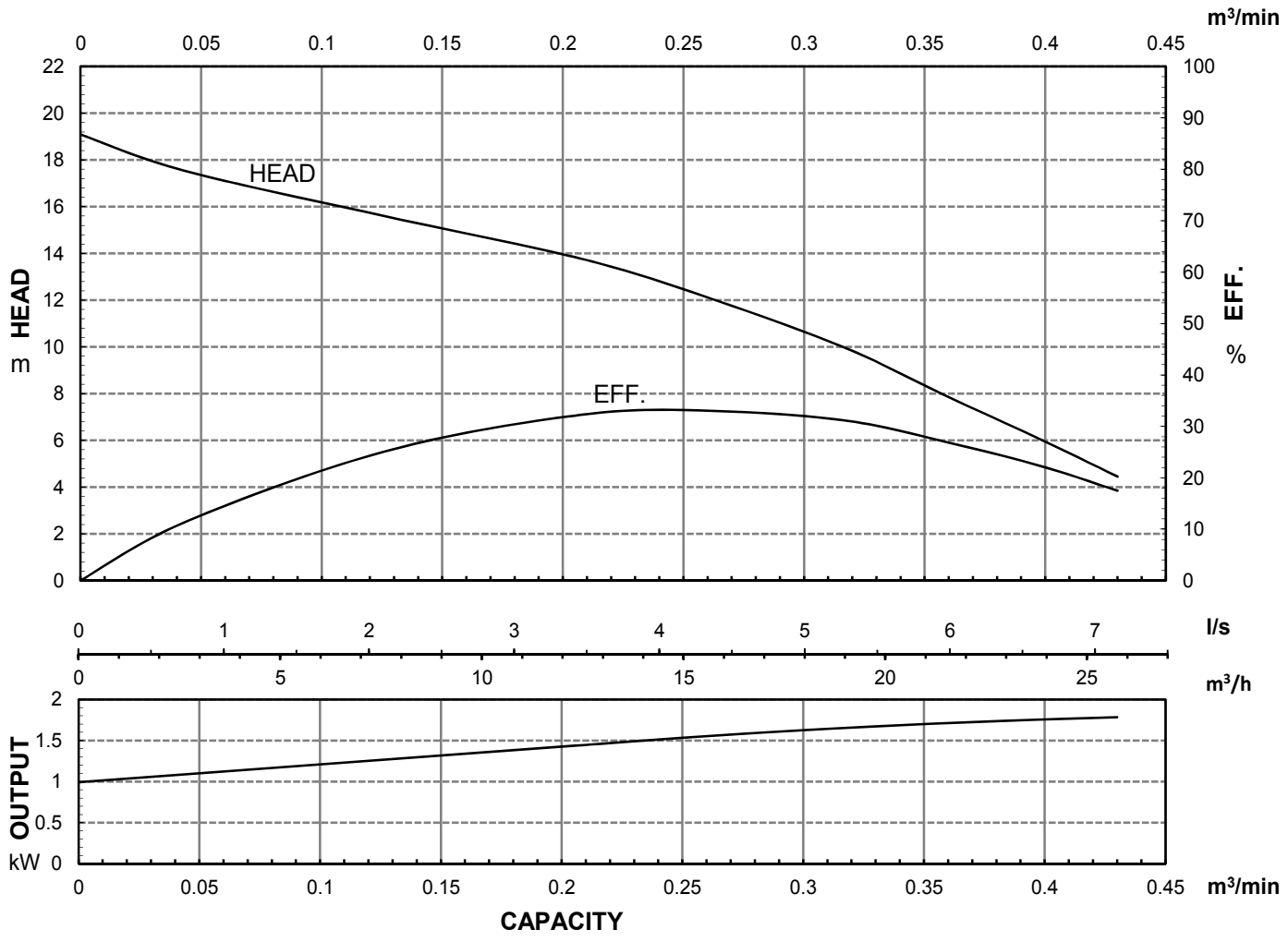
HCP PUMP MANUFACTURER CO.,LTD.

HCP PUMP

FILE NO PC-M-E5-FN22U3

PUMP PERFORMANCE CURVES

MODEL	FN-22U						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	2 inch / 50 mm							
OUTPUT	2 HP / 1.5 kW						HP	kW
HEAD	14 m							
CAPACITY	0.2 m^3/min							
PHASE/VOLTAGE	3 Ø	230 V	380 V	400 V	415 V	525 V	Ø	V
RATED CURRENT		6.1 A	3.6 A	3.5 A	3.4 A	2.7 A		A
POLE / rpm	2 P / 2820 rpm							
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



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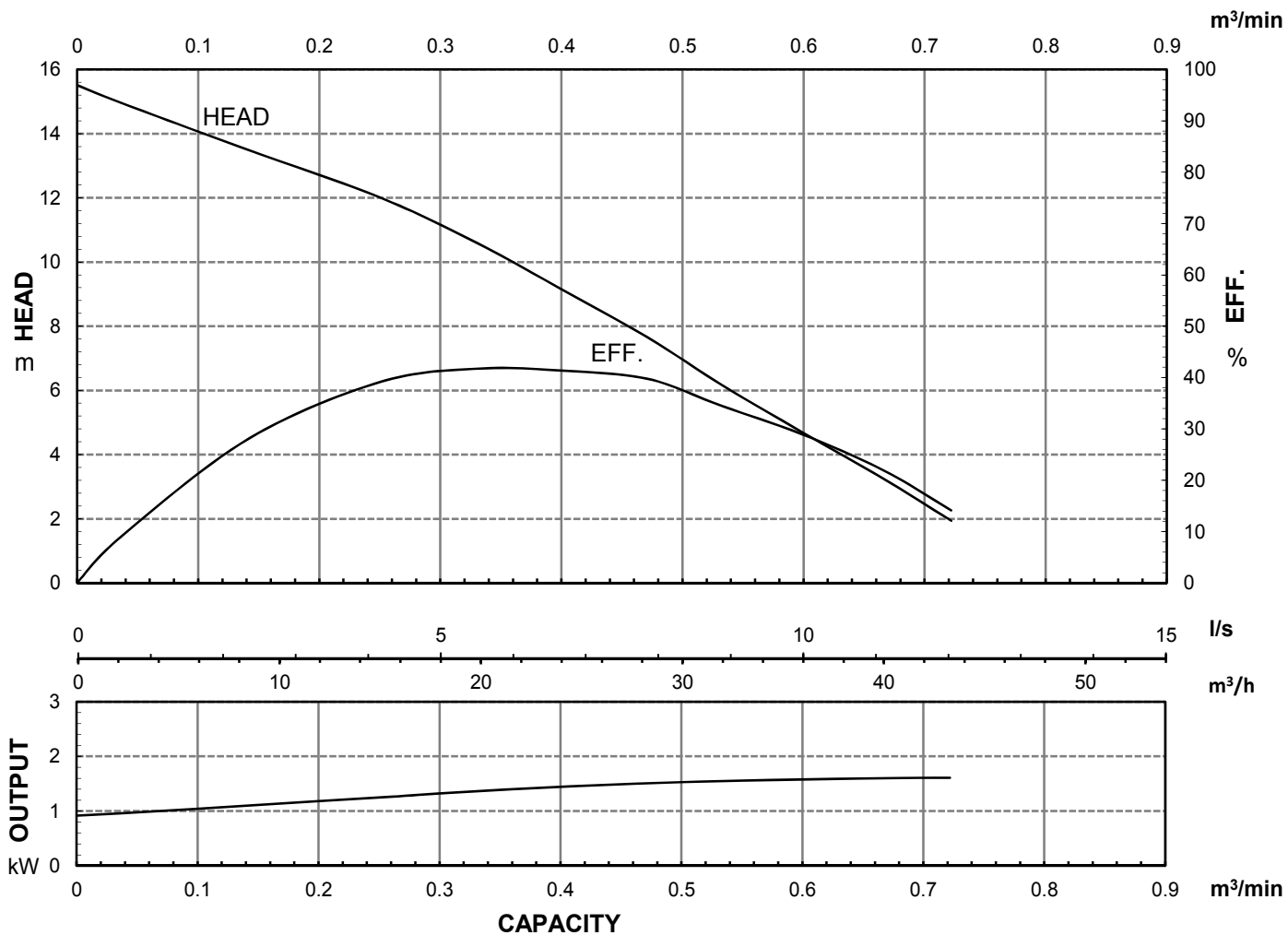
HCP PUMP

FILE NO PC-M-E5-FN32U1

PUMP PERFORMANCE CURVES

MODEL	FN-32U						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	3 inch / 80 mm							
OUTPUT	2 HP / 1.5 kW						HP	kW
HEAD	8.5 m							
CAPACITY	0.4 m^3/min							
PHASE/VOLTAGE	1 Ø	220 V	230 V	240 V			Ø	V
RATED CURRENT		10.2 A	10.0 A	9.8 A				A
POLE / rpm	2 P / 2820 rpm							
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



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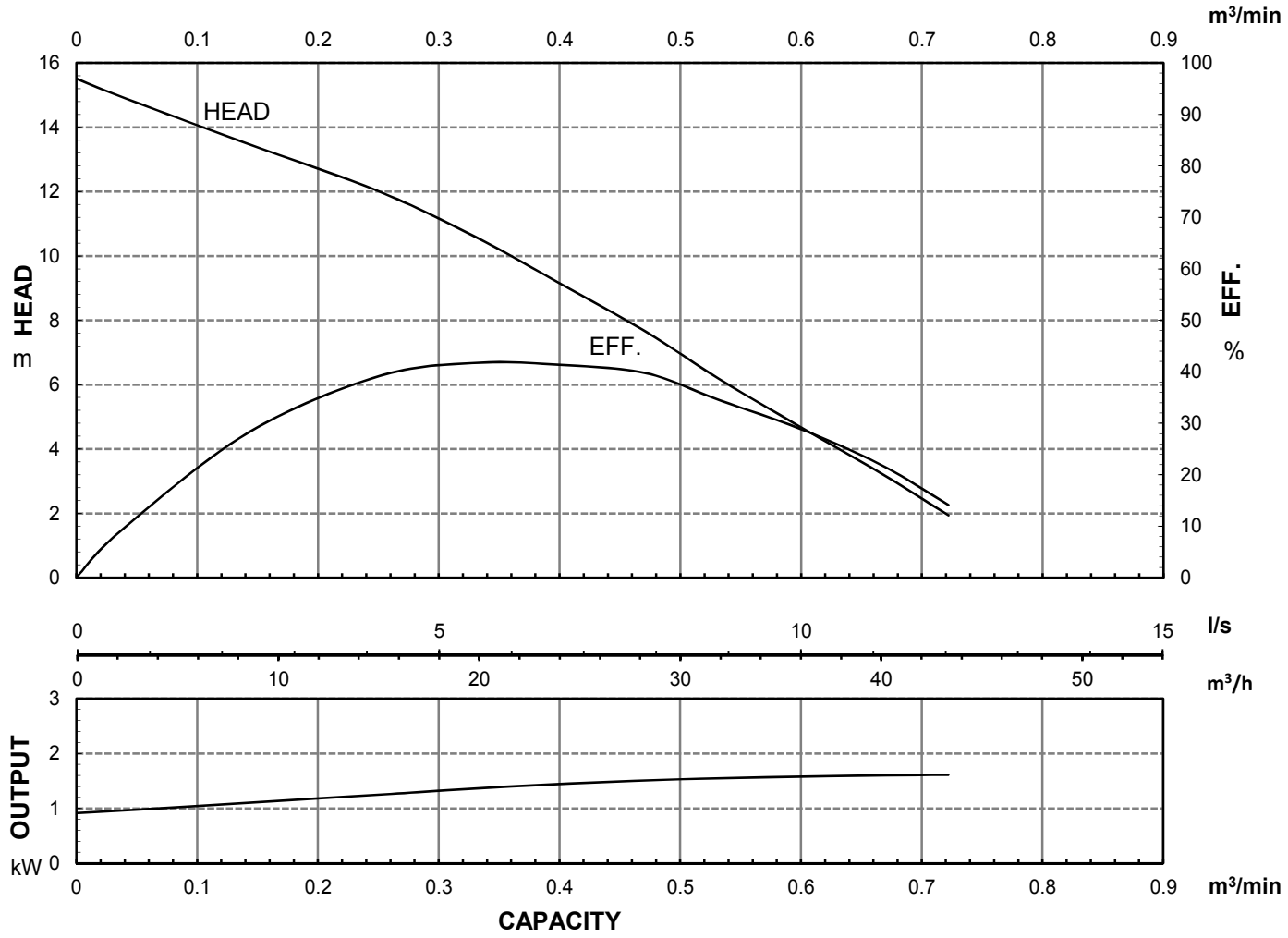
HCP PUMP

FILE NO PC-M-E5-FN32U3

PUMP PERFORMANCE CURVES

MODEL	FN-32U						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	3 inch / 80 mm							
OUTPUT	2 HP / 1.5 kW						HP	kW
HEAD	8.5 m							
CAPACITY	0.4 m^3/min							
PHASE/VOLTAGE	3 Ø	230 V	380 V	400 V	415 V	525 V	Ø	V
RATED CURRENT		6.1 A	3.6 A	3.5 A	3.4 A	2.7 A		A
POLE / rpm	2 P / 2820 rpm							
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



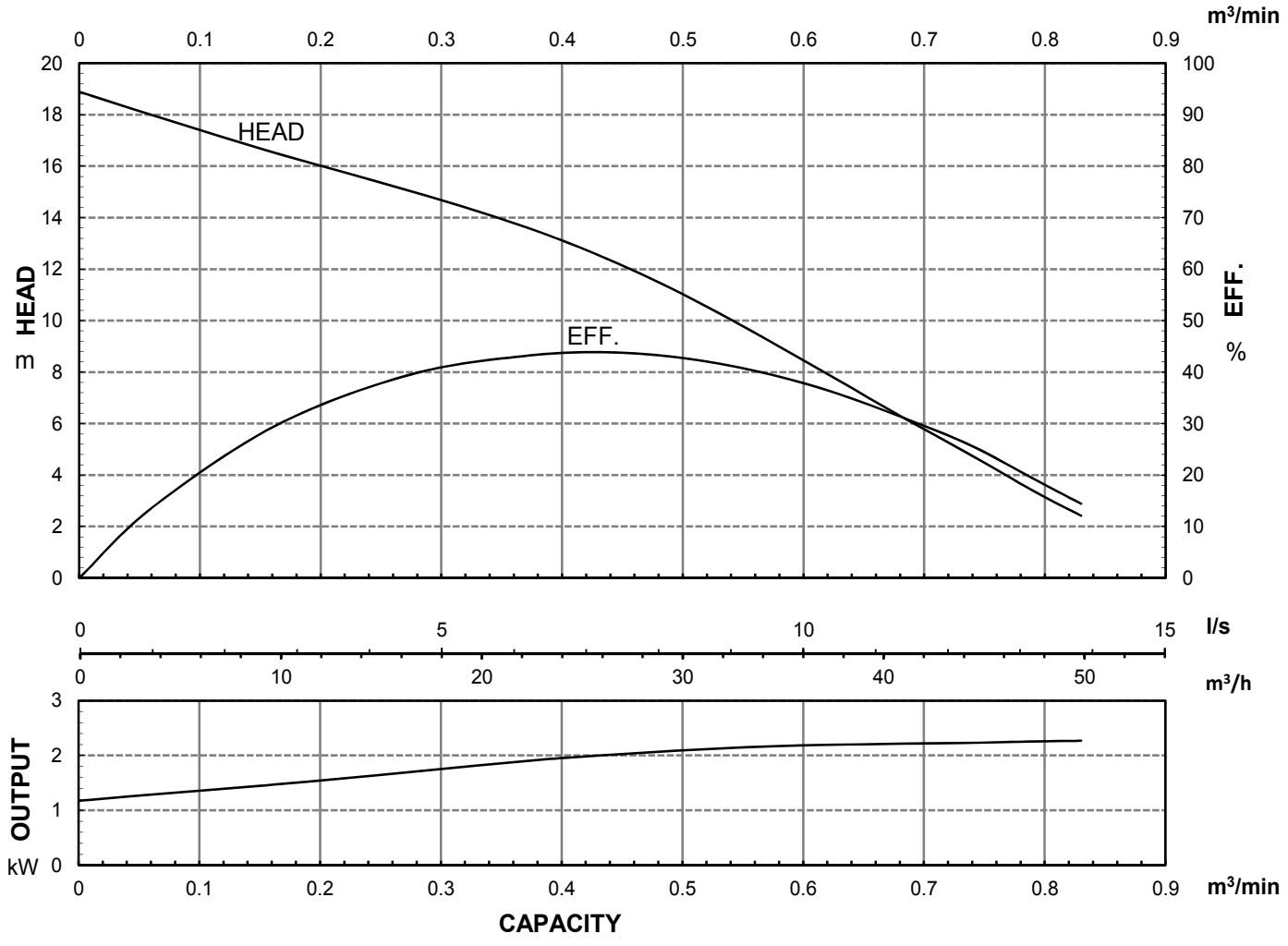
HCP PUMP MANUFACTURER CO.,LTD.

HCP PUMP

FILE NO PC-M-E5-FN33U1

PUMP PERFORMANCE CURVES

MODEL	FN-33U						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	3 inch / 80 mm							
OUTPUT	3 HP / 2.2 kW						HP	kW
HEAD	12.5 m							
CAPACITY	0.4 m^3/min							
PHASE/VOLTAGE	1 Ø	220 V	230 V	240 V			Ø	V
RATED CURRENT		15.0 A	14.6 A	14.4 A				A
POLE / rpm	2 P / 2840 rpm							
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



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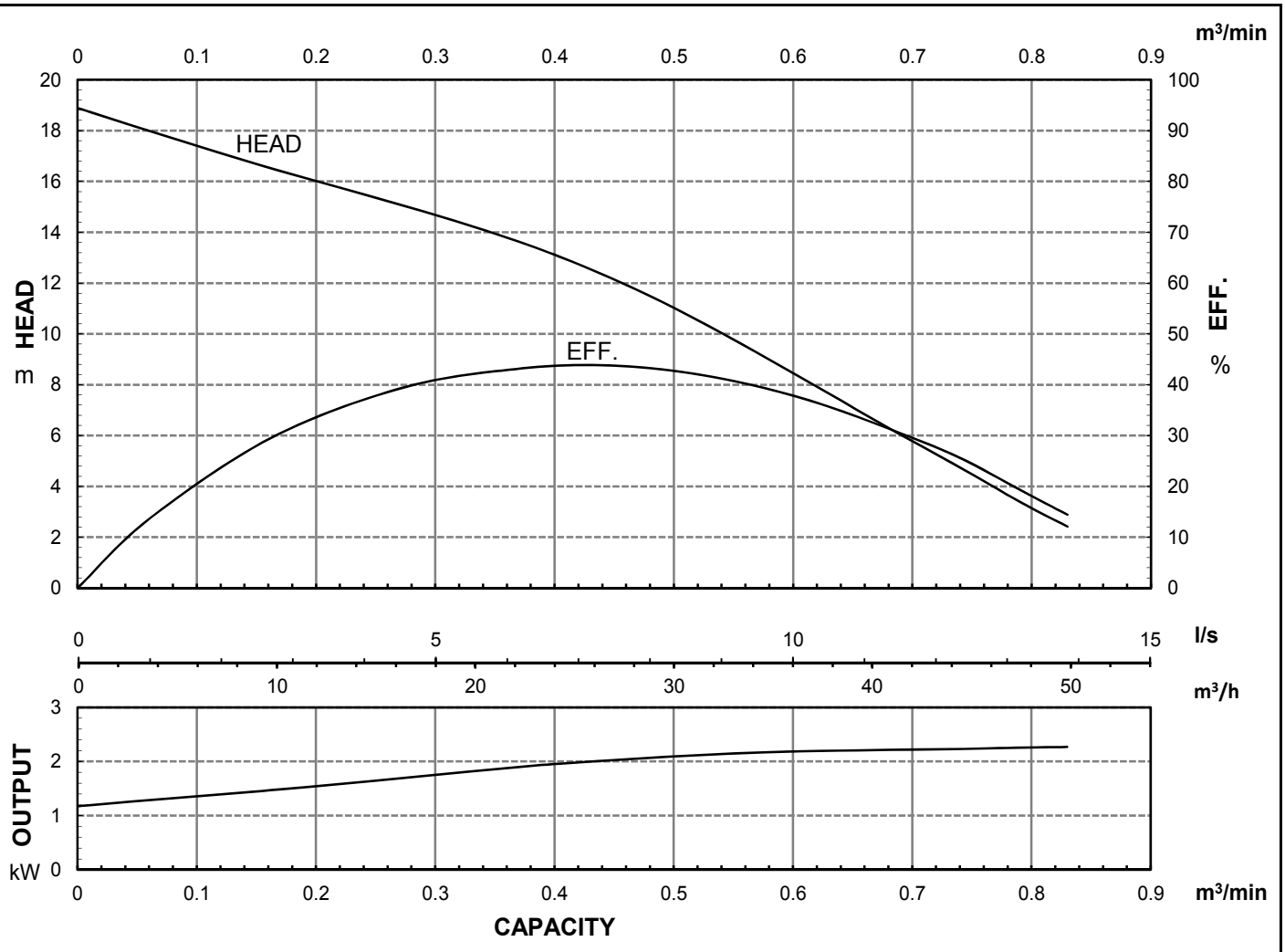
HCP PUMP

FILE NO PC-M-E5-FN33U3

PUMP PERFORMANCE CURVES

MODEL	FN-33U						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	3 inch / 80 mm							
OUTPUT	3 HP / 2.2 kW						HP	kW
HEAD	12.5 m							
CAPACITY	0.4 m^3/min							
PHASE/VOLTAGE	3 Ø	230 V	380 V	400 V	415 V	525 V	Ø	V
RATED CURRENT		8.6 A	5.1 A	5.0 A	4.8 A	3.8 A		A
POLE / rpm	2 P / 2840 rpm							
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



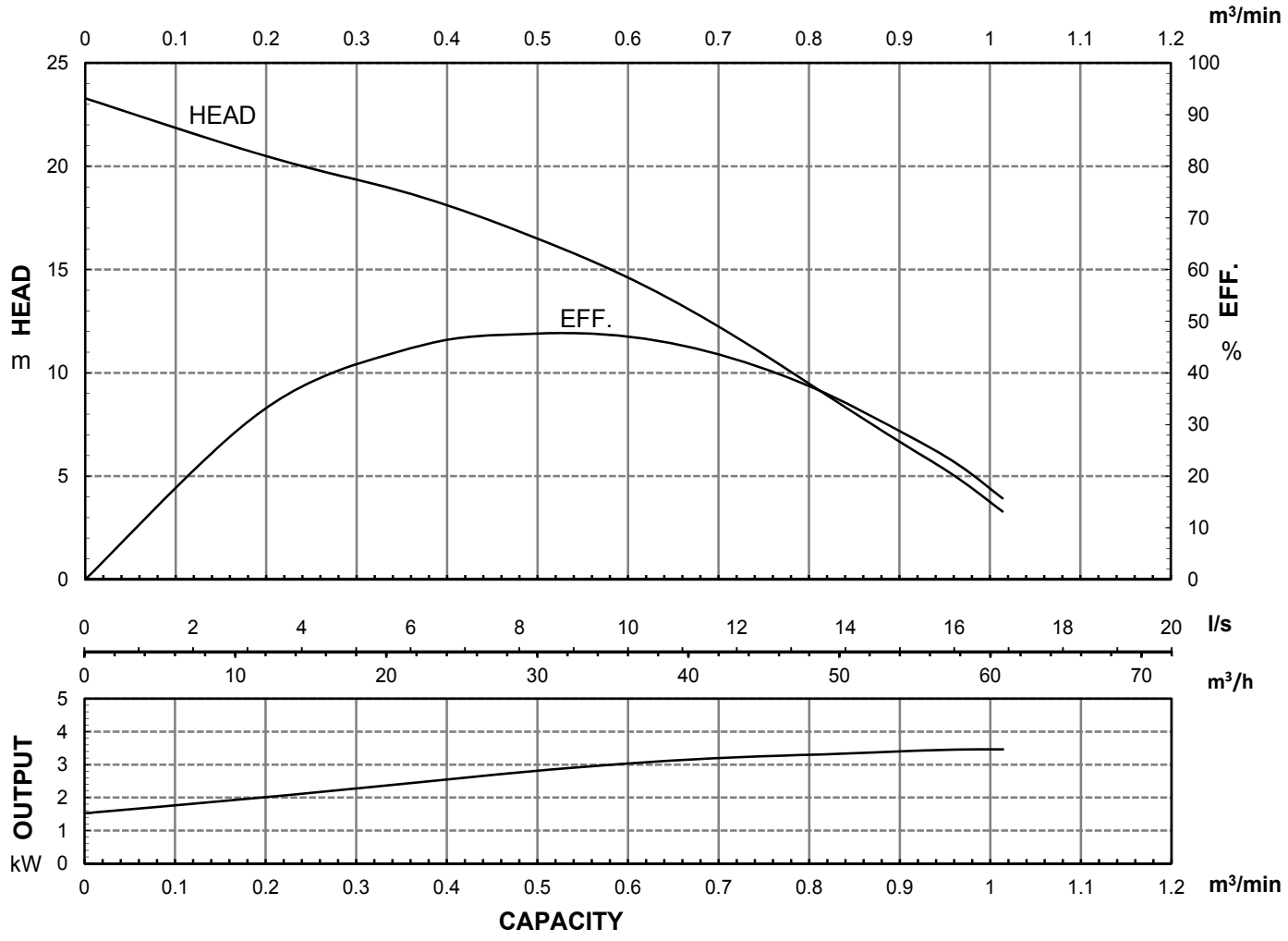
HCP PUMP MANUFACTURER CO.,LTD.

HCP PUMP

FILE NO PC-M-E5-FN35U3

PUMP PERFORMANCE CURVES

MODEL	FN-35U						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	3 inch / 80 mm							
OUTPUT	5 HP / 3.7 kW						HP	kW
HEAD	16.5 m							
CAPACITY	0.5 m^3/min							
PHASE/VOLTAGE	3 Ø	230 V	380 V	400 V	415 V	525 V	Ø	V
RATED CURRENT		14.3 A	8.3 A	7.9 A	7.9 A	6.3 A		A
POLE / rpm	2 P / 2830 rpm							
START METHOD	DIRECT							
INSULATION CLASS	F							
REMARK								



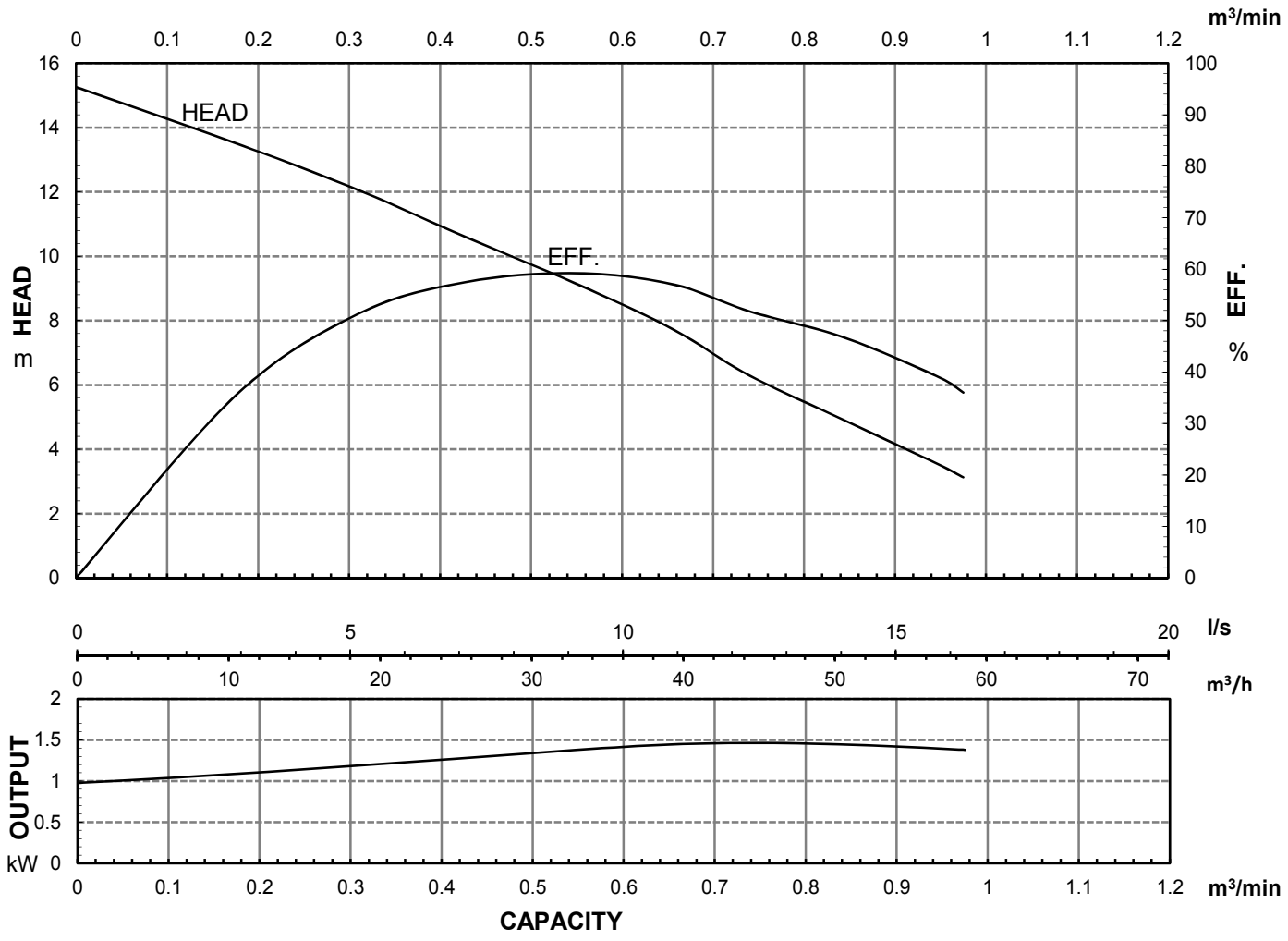
HCP PUMP MANUFACTURER CO.,LTD.

HCP PUMP

FILE NO	PC-M-E5-FN32P1

PUMP PERFORMANCE CURVES

MODEL	FN-32P						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	3 inch / 80 mm							
OUTPUT	2 HP / 1.5 kW						HP	kW
HEAD	8.5 m							
CAPACITY	0.6 m^3/min							
PHASE/VOLTAGE	1 Ø	220 V	230 V	240 V			Ø	V
RATED CURRENT		10.2 A	10.0 A	9.8 A				A
POLE / rpm	2 P / 2820 rpm							
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



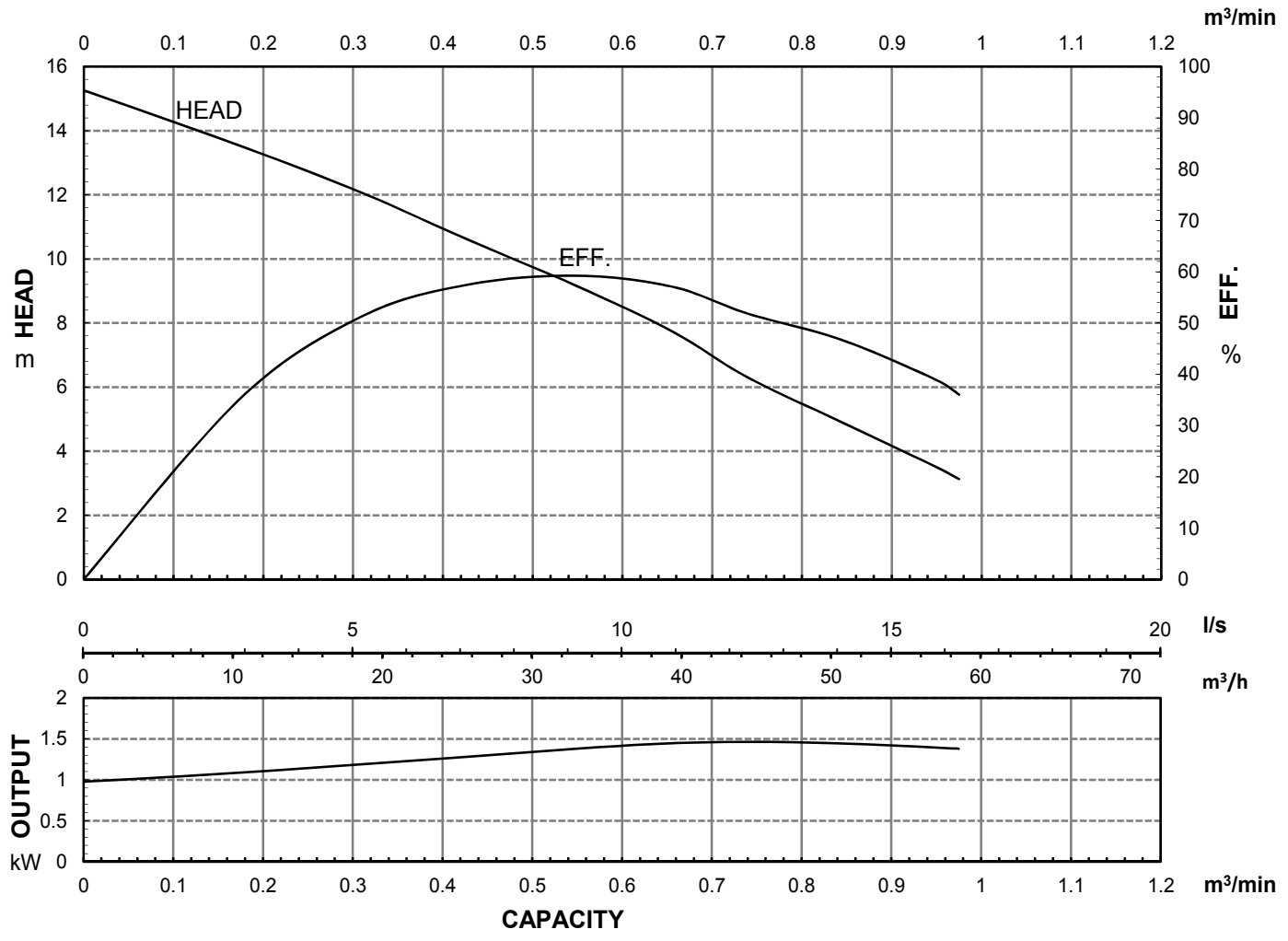
HCP PUMP MANUFACTURER CO.,LTD.

HCP PUMP

FILE NO PC-M-E5-FN32P3

PUMP PERFORMANCE CURVES

MODEL	FN-32P						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	3 inch / 80 mm							
OUTPUT	2 HP / 1.5 kW						HP	kW
HEAD	8.5 m							
CAPACITY	0.6 m^3/min							
PHASE/VOLTAGE	3 Ø	230 V	380 V	400 V	415 V	525 V	Ø	V
RATED CURRENT		6.1 A	3.6 A	3.5 A	3.4 A	2.7 A		A
POLE / rpm	2 P / 2820 rpm							
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



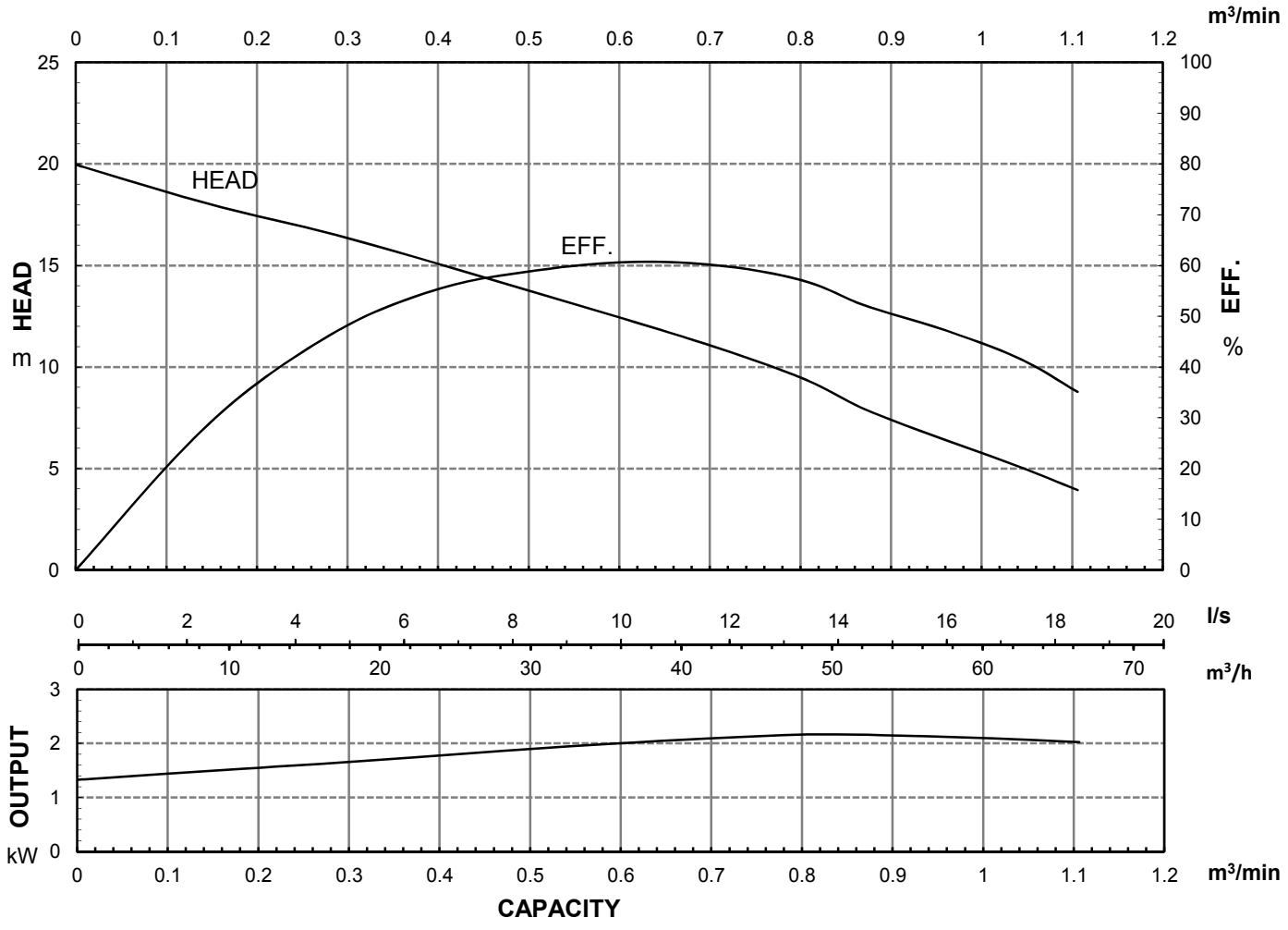
HCP PUMP MANUFACTURER CO.,LTD.

HCP PUMP

FILE NO PC-M-E5-FN33P1

PUMP PERFORMANCE CURVES

MODEL	FN-33P						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	3 inch / 80 mm							
OUTPUT	3 HP / 2.2 kW						HP	kW
HEAD	12.5 m							
CAPACITY	0.6 m^3/min							
PHASE/VOLTAGE	1 Ø	220 V	230 V	240 V			Ø	V
RATED CURRENT		15.0 A	14.6 A	14.4 A				A
POLE / rpm	2 P / 2840 rpm							
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



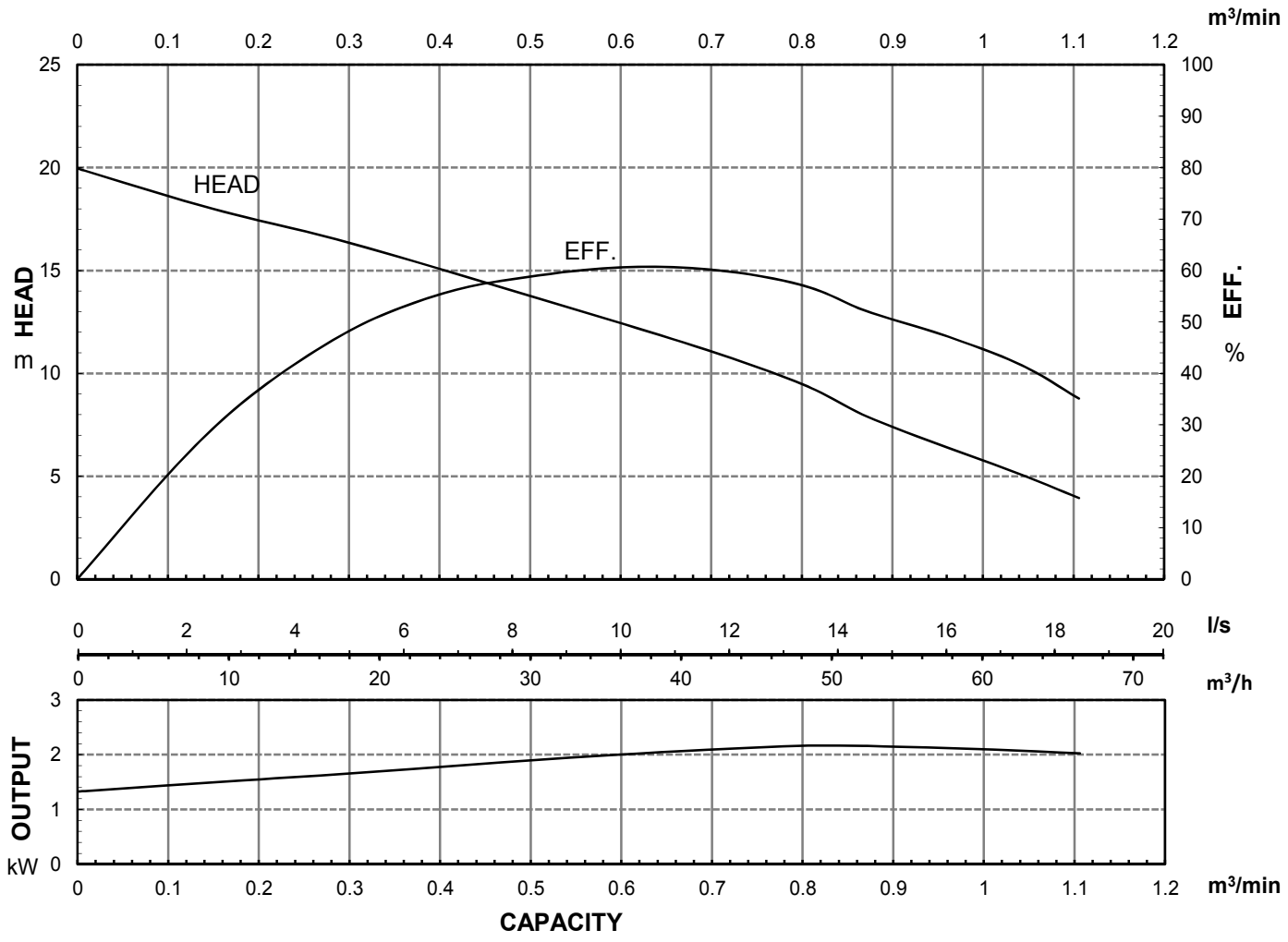
HCP PUMP MANUFACTURER CO.,LTD.

HCP PUMP

FILE NO PC-M-E5-FN33P3

PUMP PERFORMANCE CURVES

MODEL	FN-33P						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	3 inch / 80 mm							
OUTPUT	3 HP / 2.2 kW						HP	kW
HEAD	12.5 m							
CAPACITY	0.6 m^3/min							
PHASE/VOLTAGE	3 Ø	230 V	380 V	400 V	415 V	525 V	Ø	V
RATED CURRENT		8.6 A	5.1 A	5.0 A	4.8 A	3.8 A		A
POLE / rpm	2 P / 2840 rpm							
START METHOD	DIRECT							
INSULATION CLASS	B							
REMARK								



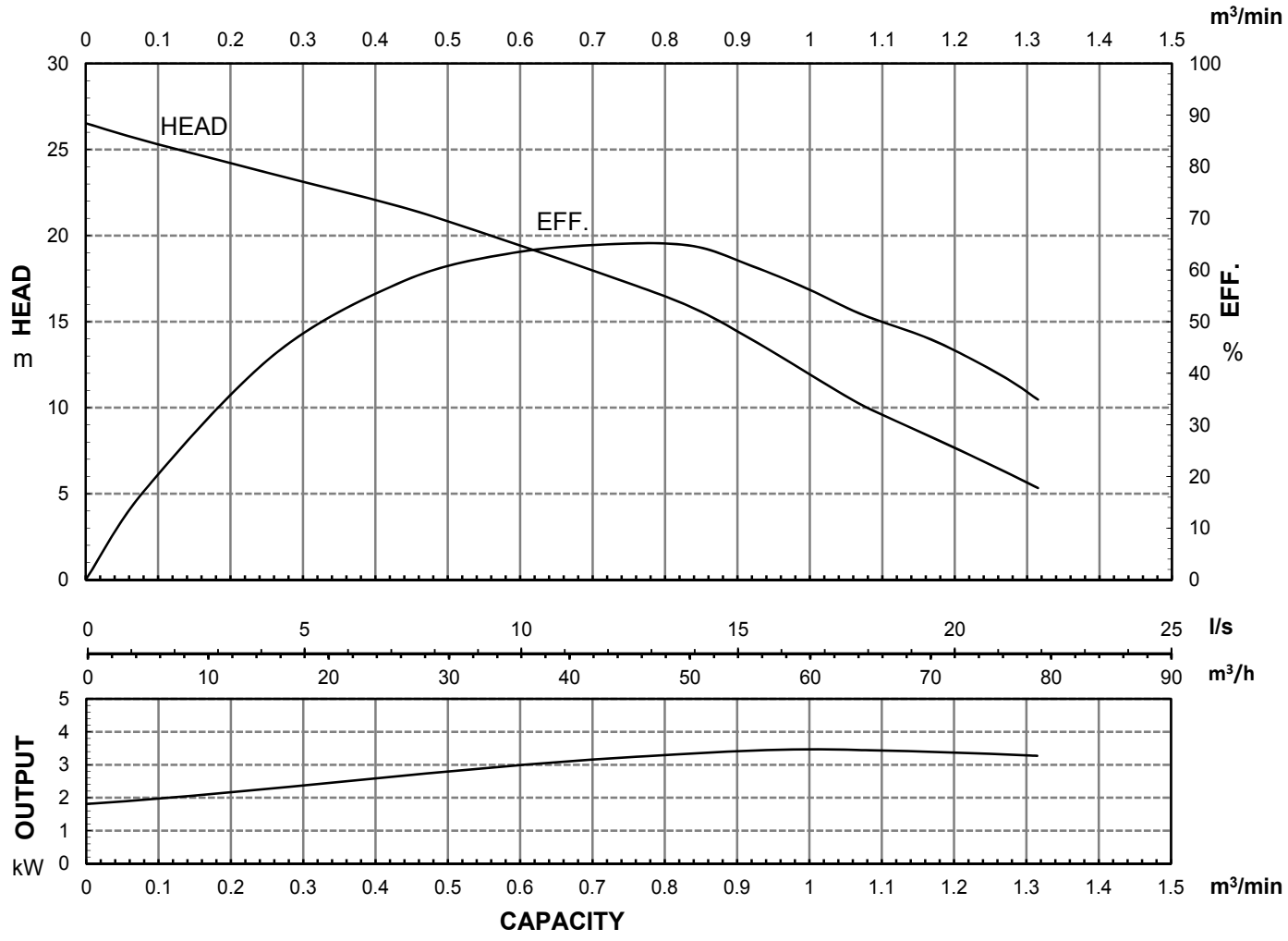
HCP PUMP MANUFACTURER CO.,LTD.

HCP PUMP

FILE NO PC-M-E5-FN35P3

PUMP PERFORMANCE CURVES

MODEL	FN-35P						DATE:	
	STANDARD SPECIFICATION						REFERENCE SPECIFICATION	
FREQUENCY	50 Hz							
DISCHARGE	3 inch / 80 mm							
OUTPUT	5 HP / 3.7 kW						HP	kW
HEAD	19 m							
CAPACITY	0.6 m^3/min							
PHASE/VOLTAGE	3 Ø	230 V	380 V	400 V	415 V	525 V	Ø	V
RATED CURRENT		14.3 A	8.3 A	7.9 A	7.9 A	6.3 A		A
POLE / rpm	2 P / 3440 rpm							
START METHOD	DIRECT							
INSULATION CLASS	F							
REMARK								



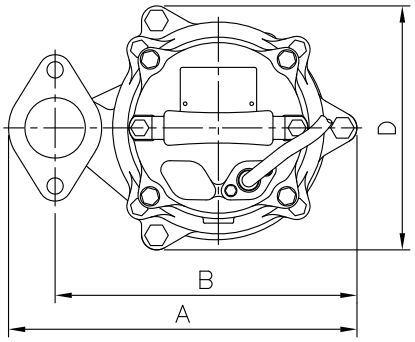
HCP PUMP MANUFACTURER CO.,LTD.

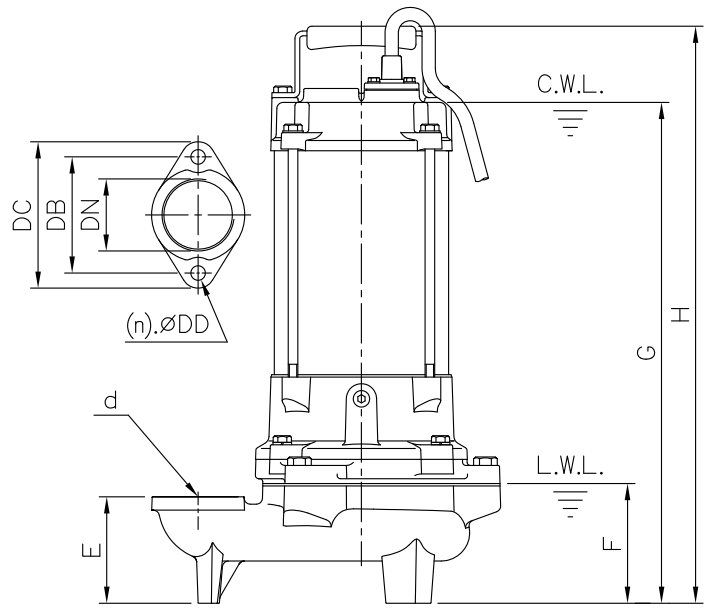
DIMENSIONS

No: S2FNU215030-00

MODEL: FN-22U

1 Ø & 3 Ø





Flange

Female Thread	
PT	NPT

Dimensions-mm

Weight:kg

Model	d	A	B	D	E	F	G	H	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
FN-22U 1Ø	50	288	250	202	88	100	483	546	30	EF2-96	50	96	121	12	2	1
FN-22U 3Ø	50	288	250	202	88	100	415	477	25	EF2-96	50	96	121	12	2	1

Dimensions-inch

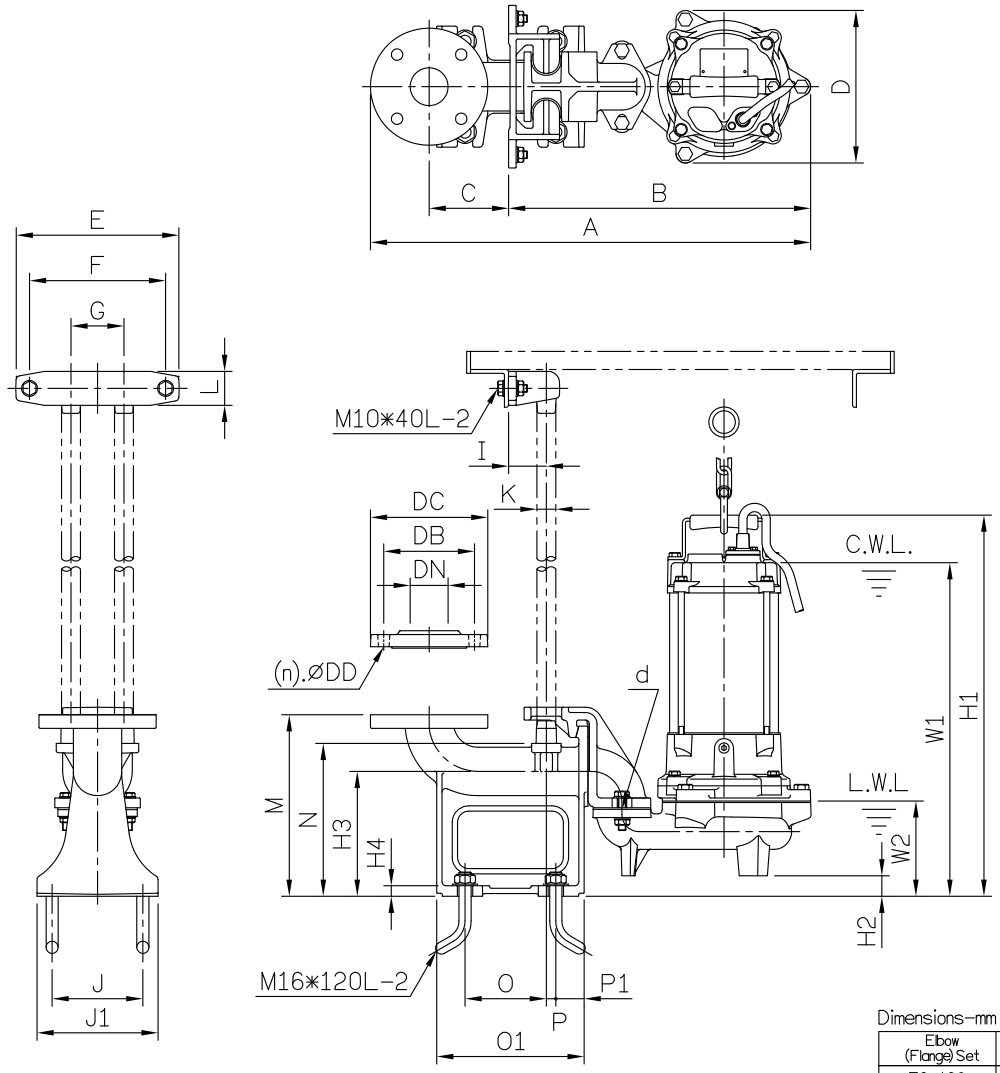
Weight:lb

Model	d	A	B	D	E	F	G	H	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
FN-22U 1Ø	2	11 5/16	9 13/16	7 15/16	3 7/16	3 15/16	19	21 1/2	66	EF2-96	2	3 3/4	4 3/4	1/2	2	1
FN-22U 3Ø	2	11 5/16	9 13/16	7 15/16	3 7/16	3 15/16	16 5/16	18 3/4	55	EF2-96	2	3 3/4	4 3/4	1/2	2	1

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

DIMENSIONS NO: S2FNU21503T-00

MODEL: FN-22U 1Ø & 3Ø



Flange

Female Thread	
PT	NPT

Dimensions-mm

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
F2-120	50	120	155	15	4

Dimensions-inch

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
F2-120	2	4 3/4	6 1/8	9/16	4

Dimensions-mm Weight:kg

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
FN-22U 1Ø	50	583	400	105	202	215	180	70	50	120	160	1"	45	240	202	108	195	13	38	510	126	573	27	165	14	30	T50E	17
FN-22U 3Ø	50	583	400	105	202	215	180	70	50	120	160	1"	45	240	202	108	195	13	38	441	126	504	27	165	14	25	T50E	17

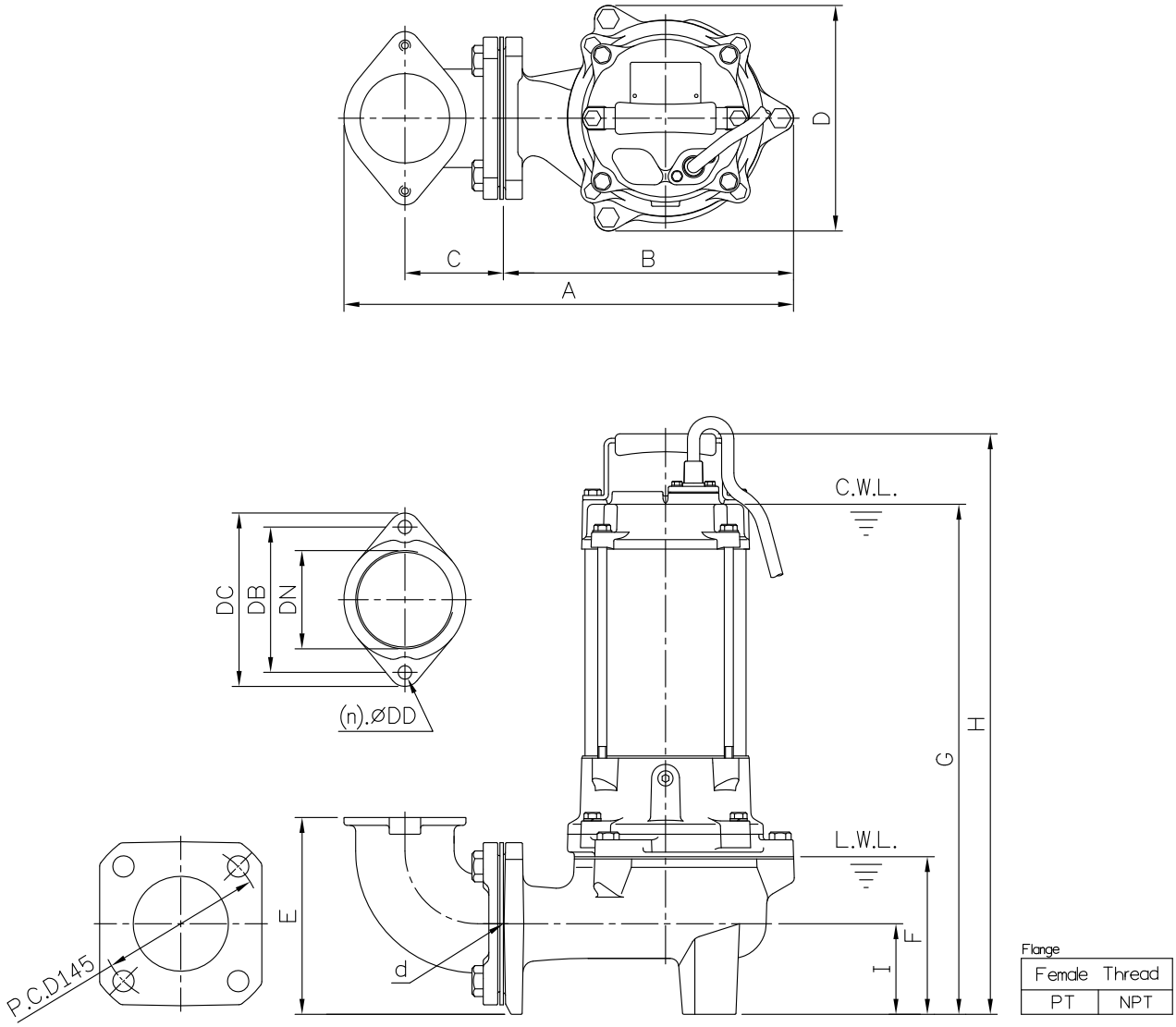
Dimensions-inch Weight:lb

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
FN-22U 1Ø	2	22 15/16	15 3/4	4 1/8	7 15/16	8 7/16	7 1/16	2 3/4	1 15/16	4 3/4	6 5/16	1	1 3/4	9 7/16	7 15/16	4 1/4	7 11/16	1/2	1 1/2	20 1/16	4 15/16	22 9/16	1 1/16	6 1/2	9/16	66	T50E	38
FN-22U 3Ø	2	22 15/16	15 3/4	4 1/8	7 15/16	8 7/16	7 1/16	2 3/4	1 15/16	4 3/4	6 5/16	1	1 3/4	9 7/16	7 15/16	4 1/4	7 11/16	1/2	1 1/2	17 3/8	4 15/16	19 13/16	1 1/16	6 1/2	9/16	55	T50E	38

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

DIMENSIONS No: S3FNU222030-00

MODEL: FN-32U & FN-33U 1Ø & 3Ø



Flange

Female Thread	
PT	NPT

Dimensions-mm Weight:kg

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
FN-32U 1Ø	80	402	260	88	202	176	140	525	588	81	32	EB3-130	80	130	155	12	2	5
FN-33U 1Ø	80	402	260	88	202	176	140	537	600	81	35	EB3-130	80	130	155	12	2	5
FN-32U 3Ø	80	402	260	88	202	176	140	456	519	81	28	EB3-130	80	130	155	12	2	5
FN-33U 3Ø	80	402	260	88	202	176	140	456	519	81	30	EB3-130	80	130	155	12	2	5

Dimensions-inch Weight:lb

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
FN-32U 1Ø	3	15 13/16	10 1/4	3 7/16	7 15/16	6 15/16	5 1/2	20 11/16	23 1/8	3 3/16	71	EB3-130	3	5 1/8	6 1/8	1/2	2	11
FN-33U 1Ø	3	15 13/16	10 1/4	3 7/16	7 15/16	6 15/16	5 1/2	21 1/8	23 5/8	3 3/16	77	EB3-130	3	5 1/8	6 1/8	1/2	2	11
FN-32U 3Ø	3	15 13/16	10 1/4	3 7/16	7 15/16	6 15/16	5 1/2	17 15/16	20 7/16	3 3/16	62	EB3-130	3	5 1/8	6 1/8	1/2	2	11
FN-33U 3Ø	3	15 13/16	10 1/4	3 7/16	7 15/16	6 15/16	5 1/2	17 15/16	20 7/16	3 3/16	66	EB3-130	3	5 1/8	6 1/8	1/2	2	11

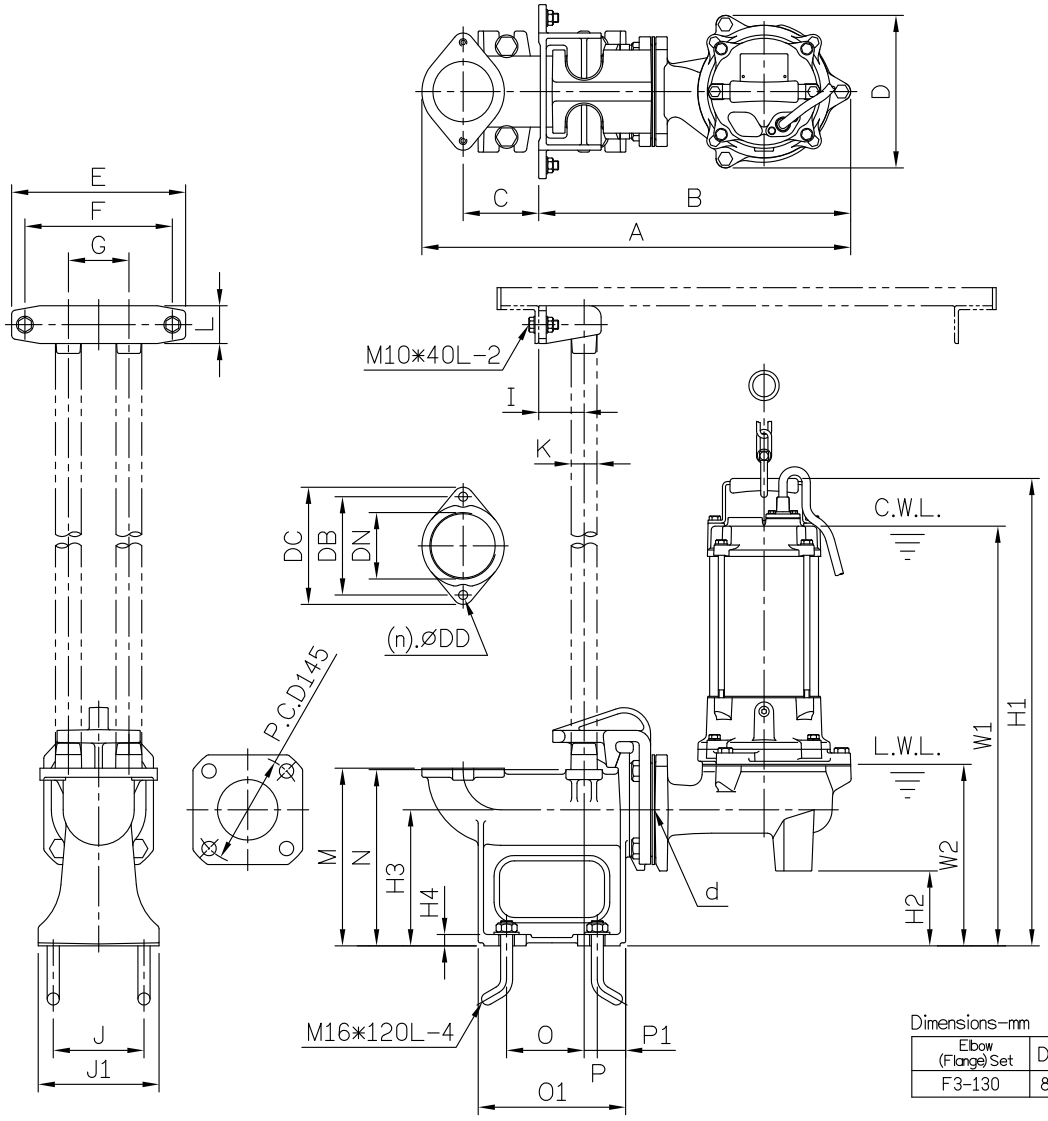
C.W.L.:Continuous Running Water Level WT1:Pump Weight(Without Cable)
L.W.L.:Lowest Running Water Level WT2:Elbow Set Weight

DIMENSIONS

No: S3FNU22203T-00

MODEL: FN-32U & FN-33U

1 Ø & 3 Ø



Flange

Female Thread	
PT	NPT

Dimensions-mm

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
F3-130	80	130	155	12	2

Dimensions-inch

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
F3-130	3	5 1/8	6 1/8	1/2	2

Dimensions-mm — Weight:kg

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
FN-32U 1Ø	80	568	413	100	202	230	195	80	60	120	160	1¼"	50	235	233	103	195	18	38	624	240	685	99	180	15	32	T2-80	20
FN-33U 1Ø	80	568	413	100	202	230	195	80	60	120	160	1¼"	50	235	233	103	195	18	38	636	240	697	99	180	15	35	T2-80	20
FN-32U 3Ø	80	568	413	100	202	230	195	80	60	120	160	1¼"	50	235	233	103	195	18	38	555	240	618	99	180	15	28	T2-80	20
FN-33U 3Ø	80	568	413	100	202	230	195	80	60	120	160	1¼"	50	235	233	103	195	18	38	555	240	618	99	180	15	30	T2-80	20

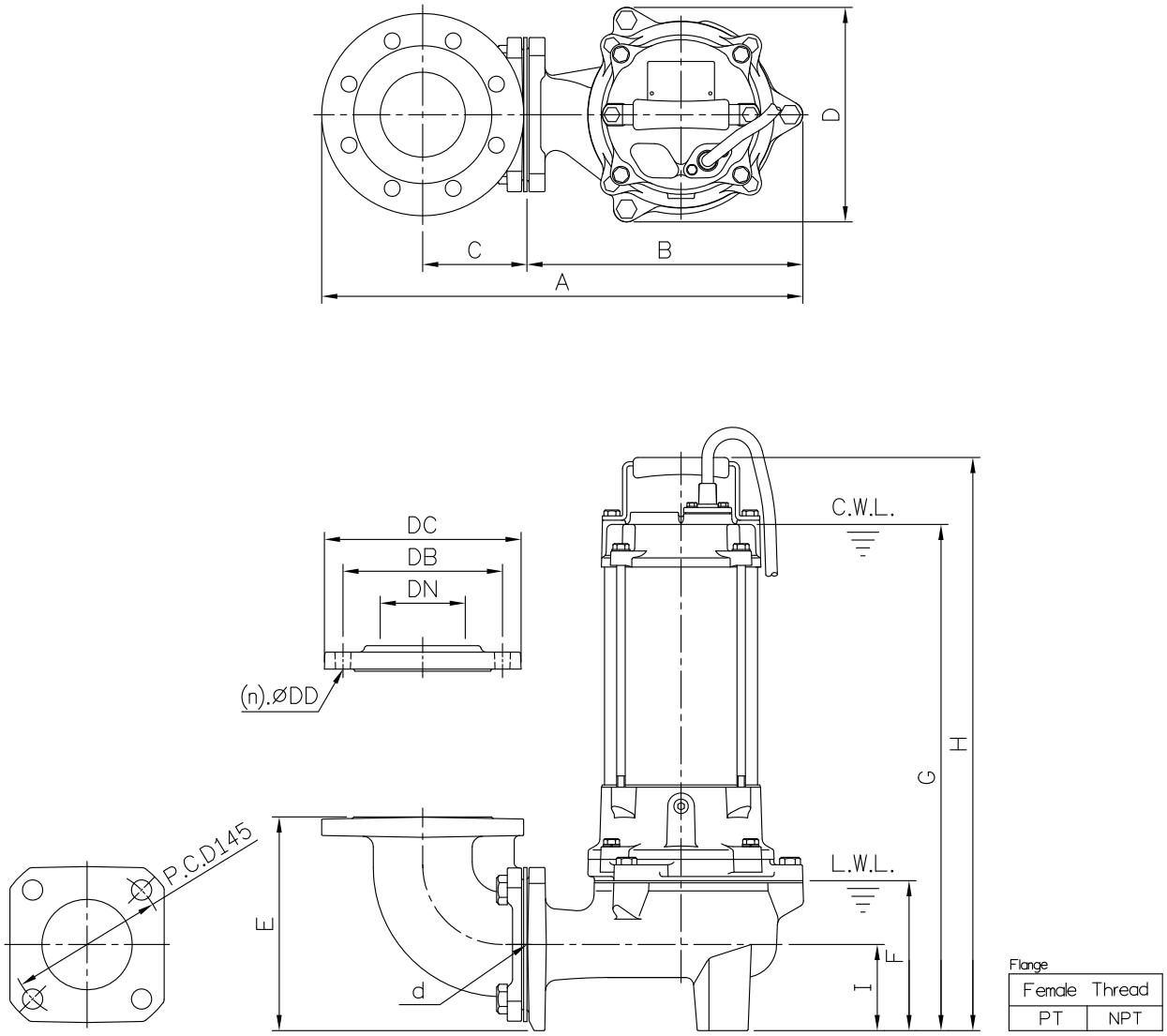
Dimensions-inch — Weight:lb

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
FN-32U 1Ø	3	22 3/8	16 1/4	3 15/16	7 15/16	9 1/16	7 11/16	3 1/8	2 3/8	4 3/4	6 5/16	1 1/4	2	9 1/4	9 3/16	4 1/16	7 11/16	11/16	1 1/2	24 9/16	9 7/16	27	3 3/8	7 1/16	9/16	71	T2-80	43
FN-33U 1Ø	3	22 3/8	16 1/4	3 15/16	7 15/16	9 1/16	7 11/16	3 1/8	2 3/8	4 3/4	6 5/16	1 1/4	2	9 1/4	9 3/16	4 1/16	7 11/16	11/16	1 1/2	25 1/16	9 7/16	27 7/16	3 3/8	7 1/16	9/16	77	T2-80	43
FN-32U 3Ø	3	22 3/8	16 1/4	3 15/16	7 15/16	9 1/16	7 11/16	3 1/8	2 3/8	4 3/4	6 5/16	1 1/4	2	9 1/4	9 3/16	4 1/16	7 11/16	11/16	1 1/2	21 7/8	9 7/16	24 5/16	3 3/8	7 1/16	9/16	62	T2-80	43
FN-33U 3Ø	3	22 3/8	16 1/4	3 15/16	7 15/16	9 1/16	7 11/16	3 1/8	2 3/8	4 3/4	6 5/16	1 1/4	2	9 1/4	9 3/16	4 1/16	7 11/16	11/16	1 1/2	21 7/8	9 7/16	24 5/16	3 3/8	7 1/16	9/16	66	T2-80	43

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: S3FNU237030-00

MODEL: FN-35U 3Ø



Flange	
Female Thread	
PT	NPT

Dimensions-mm Weight:Kg

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
FN-35U	80	453	260	98	202	201	140	476	539	81	33	EB3-150A	80	150	185	15	8	12

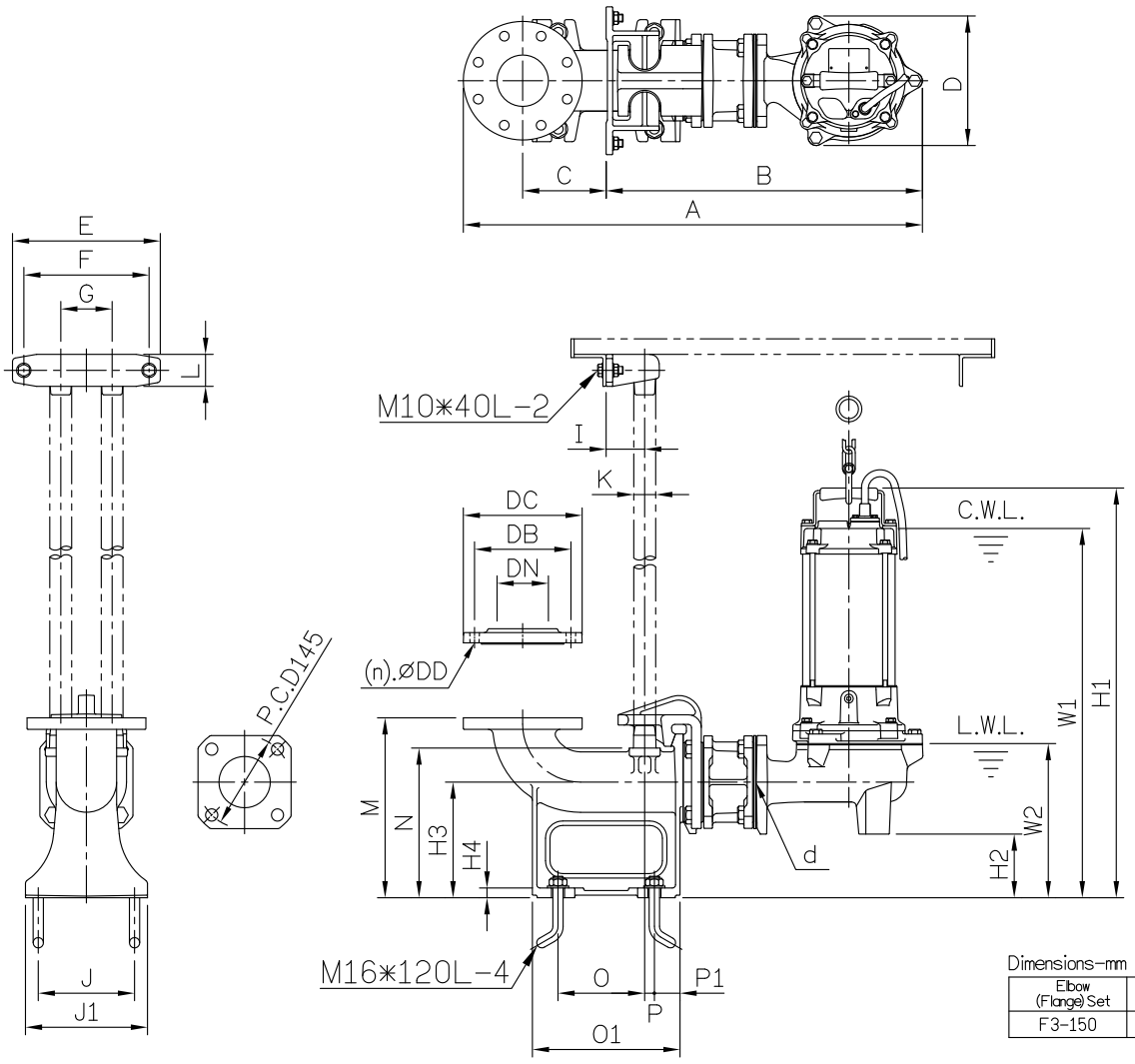
Dimensions-inch Weight:Lbs

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
FN-35U	3	17 13/16	10 1/4	3 7/8	7 15/16	7 1/8	5 1/2	18 3/4	21 1/4	3 3/16	73	EB3-150A	3	5 7/8	7 5/16	9/16	8	26

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:S3FNU23703T-00

MODEL: FN-35U 3Ø



Flange

Female Thread	
PT	NPT

Dimensions-mm

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
F3-150	80	150	185	15	8

Dimensions-inch

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
F3-150	3	5 15/16	7 5/16	9/16	8

Dimensions-mm Weight:kg

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
FN-35U	80	715	493	130	202	230	195	80	60	150	190	1¼"	50	280	233	135	230	15	40	575	240	638	99	180	15	33	T80DH	31

Dimensions-inch Weight:lb

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
FN-35U	3	28 1/8	19 7/16	5 1/8	7 15/16	9 1/16	7 11/16	3 1/8	2 3/8	5 15/16	7 1/2	1 1/4	2	11	9 3/16	5 5/16	9 1/16	3/16	1 9/16	22 5/8	9 7/16	25 1/8	3 7/8	7 1/16	3/16	73	T80DH	68

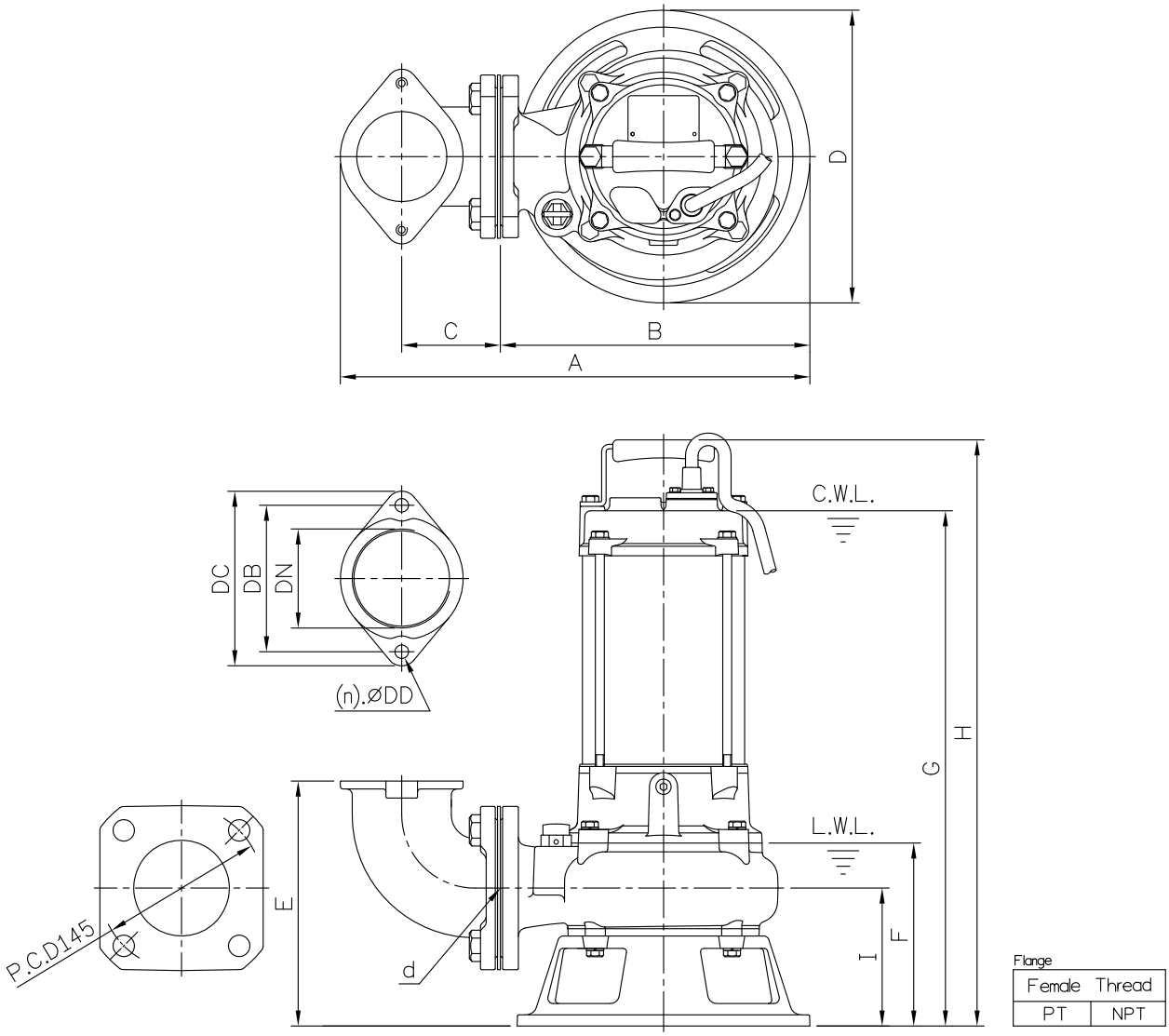
C.W.L.:Continuous Running Water Level WT1:Pump Weight(Without Cable)
L.W.L.:Lowest Running Water Level WT2:GRS Set Weight

DIMENSIONS

No: S3FNP222030-00

MODEL: FN-32P & FN-33P

1Ø & 3Ø



Flange

Female Thread	
PT	NPT

Dimensions-mm

Weight:kg

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
FN-32P 1Ø	80	417	275	88	260	218	163	527	590	123	34	EB3-130	80	130	155	12	2	5
FN-33P 1Ø	80	417	275	88	260	218	163	539	602	123	37	EB3-130	80	130	155	12	2	5
FN-32P 3Ø	80	417	275	88	260	218	163	458	521	123	30	EB3-130	80	130	155	12	2	5
FN-33P 3Ø	80	417	275	88	260	218	163	458	521	123	32	EB3-130	80	130	155	12	2	5

Dimensions-inch

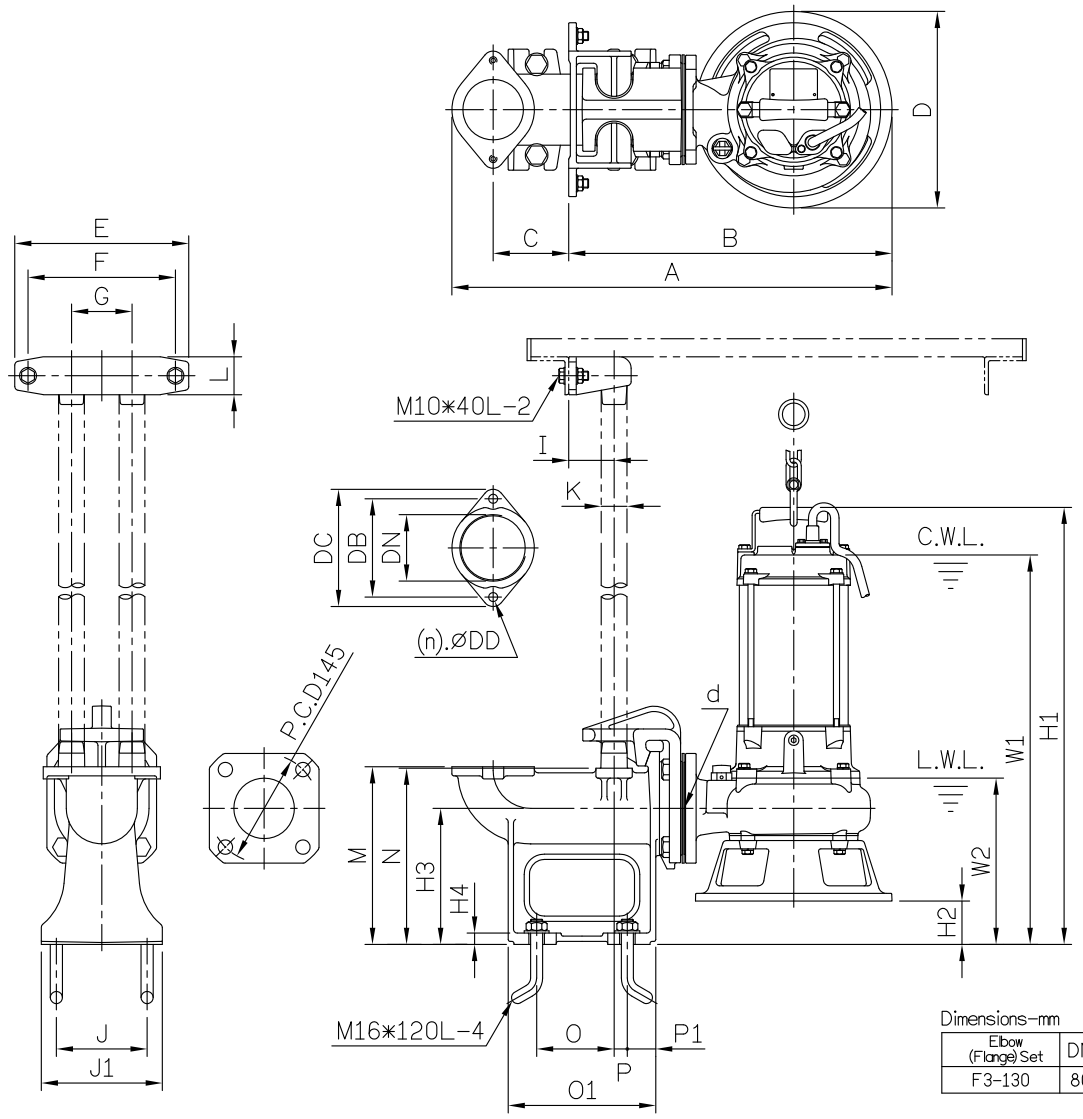
Weight:lb

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
FN-32P 1Ø	3	16 7/16	10 13/16	3 7/16	10 1/4	8 9/16	6 7/16	20 3/4	23 1/4	4 13/16	75	EB3-130	3	5 1/8	6 1/8	1/2	2	11
FN-33P 1Ø	3	16 7/16	10 13/16	3 7/16	10 1/4	8 9/16	6 7/16	21 1/4	23 11/16	4 13/16	82	EB3-130	3	5 1/8	6 1/8	1/2	2	11
FN-32P 3Ø	3	16 7/16	10 13/16	3 7/16	10 1/4	8 9/16	6 7/16	18 1/16	20 1/2	4 13/16	66	EB3-130	3	5 1/8	6 1/8	1/2	2	11
FN-33P 3Ø	3	16 7/16	10 13/16	3 7/16	10 1/4	8 9/16	6 7/16	18 1/16	20 1/2	4 13/16	71	EB3-130	3	5 1/8	6 1/8	1/2	2	11

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

DIMENSIONS No: S3FNP22203T-00

MODEL: FN-32P & FN-33P 1 Ø & 3 Ø



Flange

Female Thread	
PT	NPT

Dimensions-mm

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
F3-130	80	130	155	12	2

Dimensions-inch

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
F3-130	3	5 1/8	6 1/8	1/2	2

Dimensions-mm Weight:kg

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
FN-32P 1Ø	80	583	428	100	260	230	195	80	60	120	160	1¼"	50	235	233	103	195	18	38	584	220	647	58	180	15	34	T2-80	20
FN-33P 1Ø	80	583	428	100	260	230	195	80	60	120	160	1¼"	50	235	233	103	195	18	38	596	220	659	58	180	15	37	T2-80	20
FN-32P 3Ø	80	583	428	100	260	230	195	80	60	120	160	1¼"	50	235	233	103	195	18	38	515	220	578	58	180	15	30	T2-80	20
FN-33P 3Ø	80	583	428	100	260	230	195	80	60	120	160	1¼"	50	235	233	103	195	18	38	515	220	578	58	180	15	32	T2-80	20

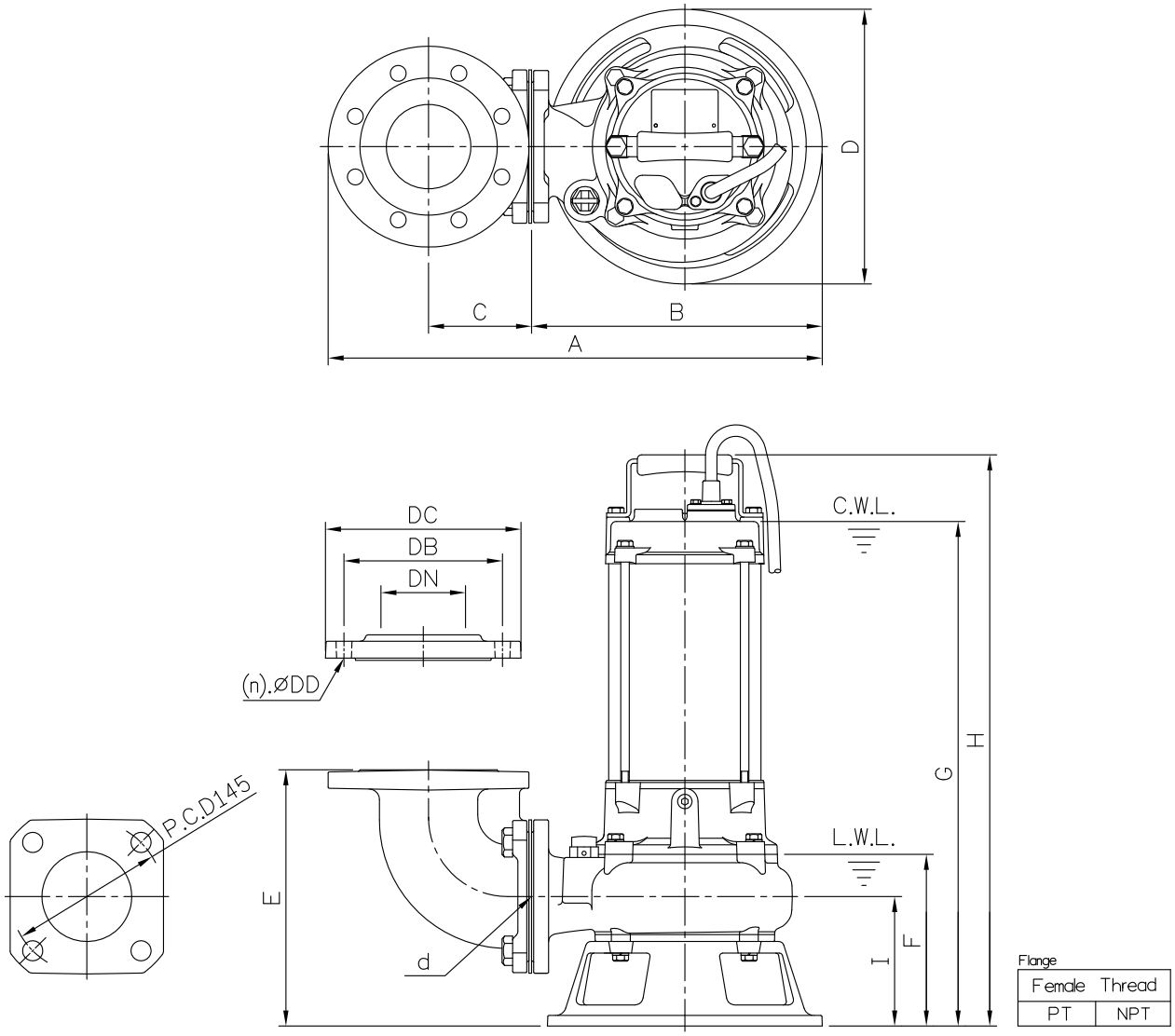
Dimensions-inch Weight:lb

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
FN-32P 1Ø	3	22 15/16	16 7/8	3 15/16	10 1/4	9 1/16	7 11/16	3 1/8	2 3/8	4 3/4	6 5/16	1¼	2	9 1/4	9 3/16	4 1/16	7 11/16	11/16	1 1/2	23	8 11/16	25 1/2	2 5/16	7 1/16	9/16	75	T2-80	43
FN-33P 1Ø	3	22 15/16	16 7/8	3 15/16	10 1/4	9 1/16	7 11/16	3 1/8	2 3/8	4 3/4	6 5/16	1¼	2	9 1/4	9 3/16	4 1/16	7 11/16	11/16	1 1/2	23 7/16	8 11/16	25 15/16	2 5/16	7 1/16	9/16	82	T2-80	43
FN-32P 3Ø	3	22 15/16	16 7/8	3 15/16	10 1/4	9 1/16	7 11/16	3 1/8	2 3/8	4 3/4	6 5/16	1¼	2	9 1/4	9 3/16	4 1/16	7 11/16	11/16	1 1/2	20 1/4	8 11/16	22 3/4	2 5/16	7 1/16	9/16	66	T2-80	43
FN-33P 3Ø	3	22 15/16	16 7/8	3 15/16	10 1/4	9 1/16	7 11/16	3 1/8	2 3/8	4 3/4	6 5/16	1¼	2	9 1/4	9 3/16	4 1/16	7 11/16	11/16	1 1/2	20 1/4	8 11/16	22 3/4	2 5/16	7 1/16	9/16	71	T2-80	43

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: S3FNP237030-00

MODEL: FN-35P 3Ø



Dimensions-mm Weight:Kg

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
FN-35P	80	468	275	98	260	243	163	478	541	123	35	EB3-150A	80	150	185	15	8	12

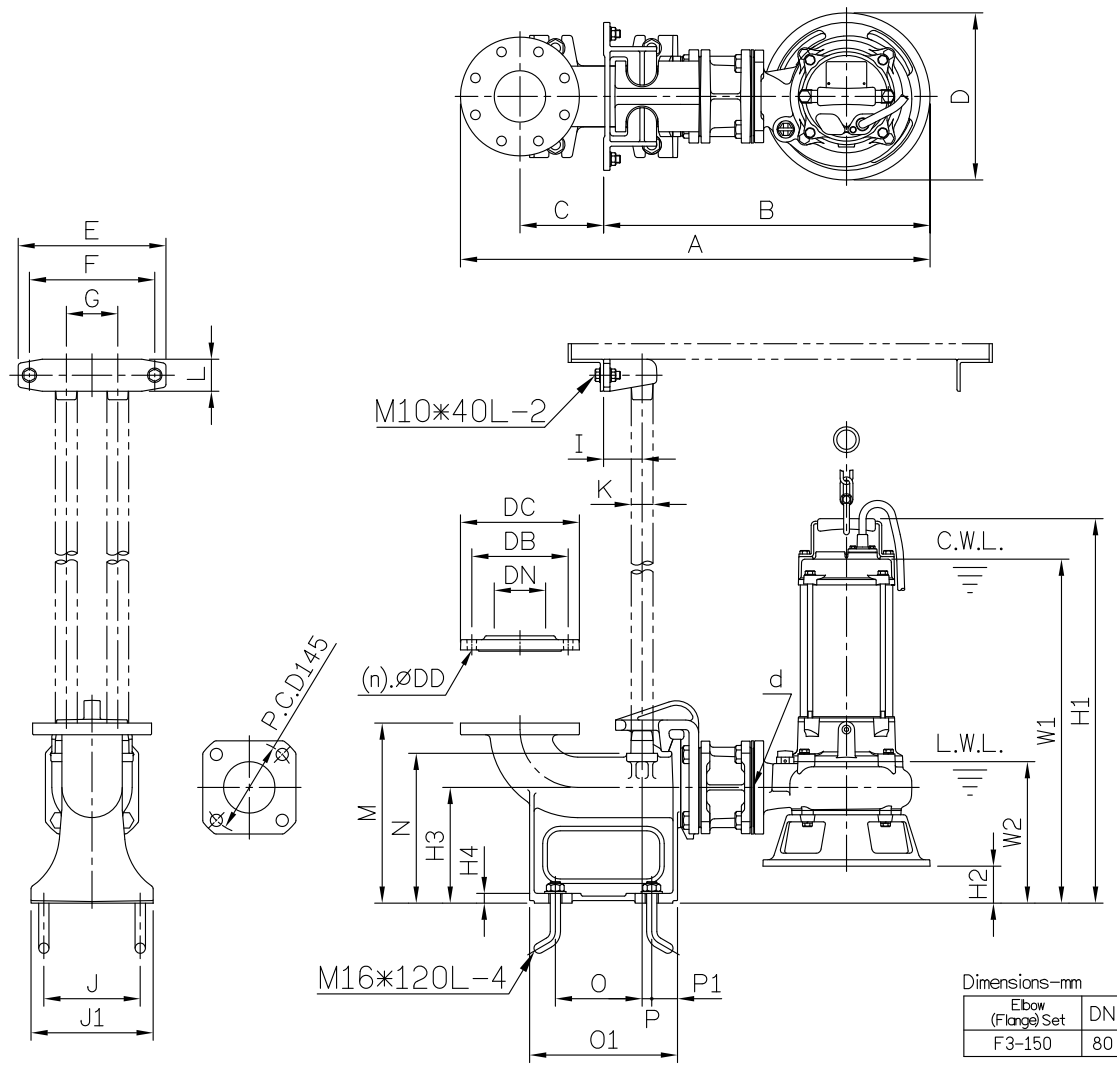
Dimensions-inch Weight:Lbs

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY	WT2
FN-35P	3	18 7/16	10 13/16	3 7/8	10 1/4	9 9/16	6 7/16	18 13/16	21 5/16	4 13/16	77	EB3-150A	3	5 7/8	7 5/16	9/16	8	26

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:S3FNP23703T-00

MODEL: FN-35P 3Ø



Flange

Female Thread	
PT	NPT

Dimensions-mm

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
F3-150	80	150	185	15	8

Dimensions-inch

Elbow (Flange) Set	DN	DB	DC	DD	(n)QTY
F3-150	3	5 15/16	7 5/16	9/16	8

Dimensions-mm Weight:kg

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
FN-35P	80	731	508	130	260	230	195	80	60	150	190	1¼"	50	280	233	135	230	15	40	535	220	598	58	180	15	35	T80DH	31

Dimensions-inch Weight:lb

Model	d	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
FN-35P	3	28¾	20	5⅛	10¼	9 1/16	7 11/16	3⅛	2⅜	5 15/16	7½	1¼	2	11	9 3/16	5 5/16	9 1/16	9/16	1 9/16	21 1/16	8 11/16	23 3/16	2 5/16	7 1/16	9/16	77	T80DH	68

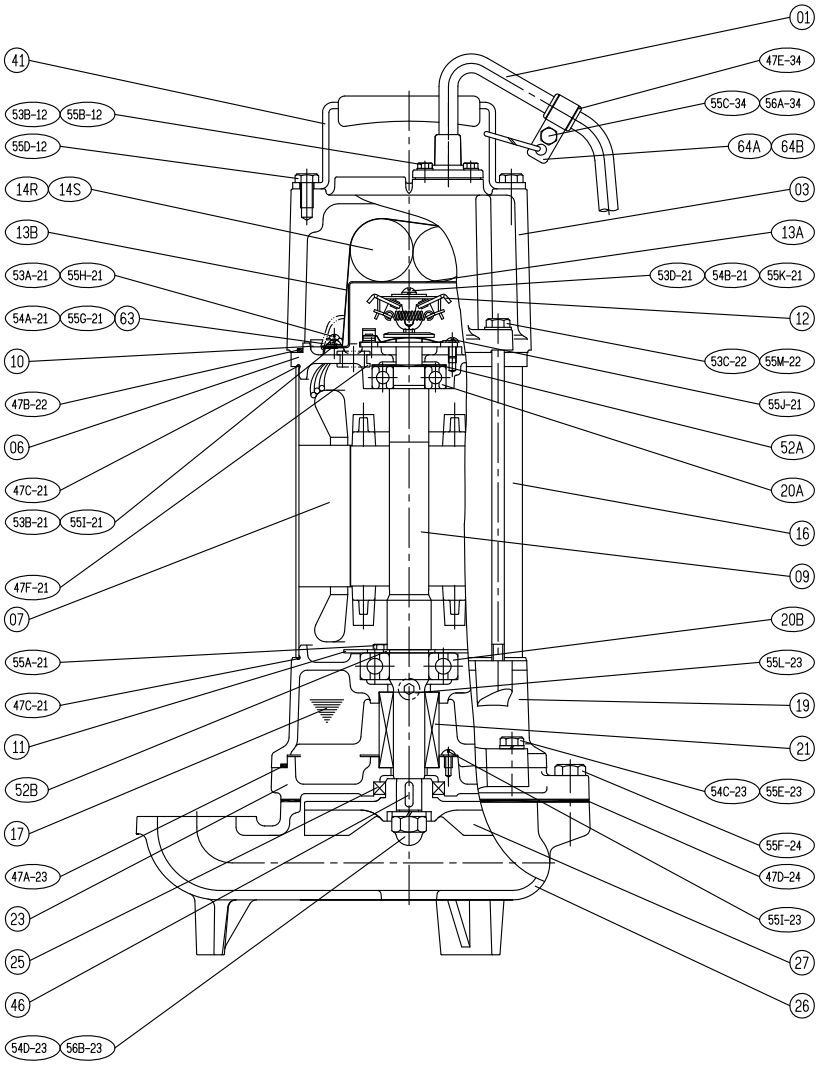
C.W.L.:Continuous Running Water Level WT1:Pump Weight(Without Cable)
L.W.L.:Lowest Running Water Level WT2:GRS Set Weight

SECTIONAL VIEWS

No: 02FNU215010-00

MODEL: FN-22U

1Ø

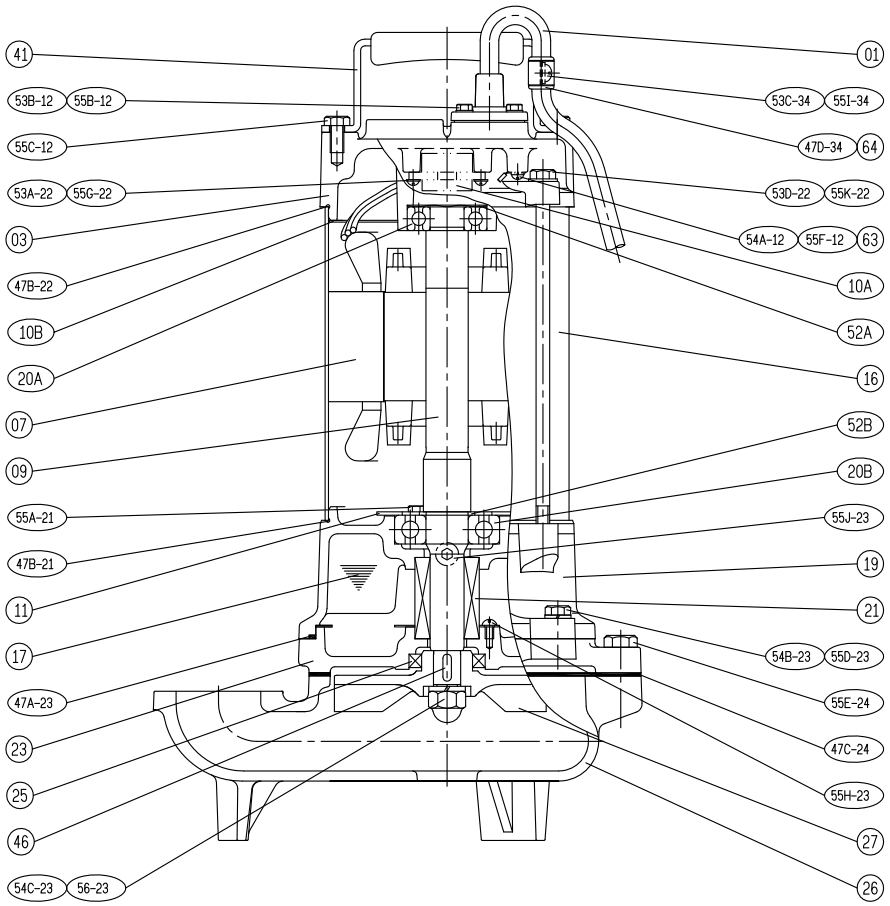


No.	Part name	Material	QTY	Remark
01	Cable		1	
03	Upper cover	FC200	1	
06	Bracket	FC200	1	
07	Stator		1	
09	Shaft end	SUS403	1	
10	Auto-cut		1	
11	Bearing fixer	SPCC	1	
12	Centrifugal switch		1	
14R	Capacitor		1	
14S	Start capacitor		1	
16	Motor frame	SUS304	1	
17	Lubricant			
19	Bearing bracket	FC200	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	
25	Oil seal	NBR	1	
26	Casing	FC200	1	
27	Impeller	FC200	1	
41	Handle	SUS304	1	
46	Impeller key	SUS304	1	
47	Packing			

SECTIONAL VIEWS No: 02FNU215030-00

MODEL: FN-22U 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	SUS304	1	
17	Lubricant			
19	Bearing bracket	FC200	1	
20A	Bearing		1	
20B	Bearing		1	
21	M.seal	CA / CE & SiC / SiC	1	

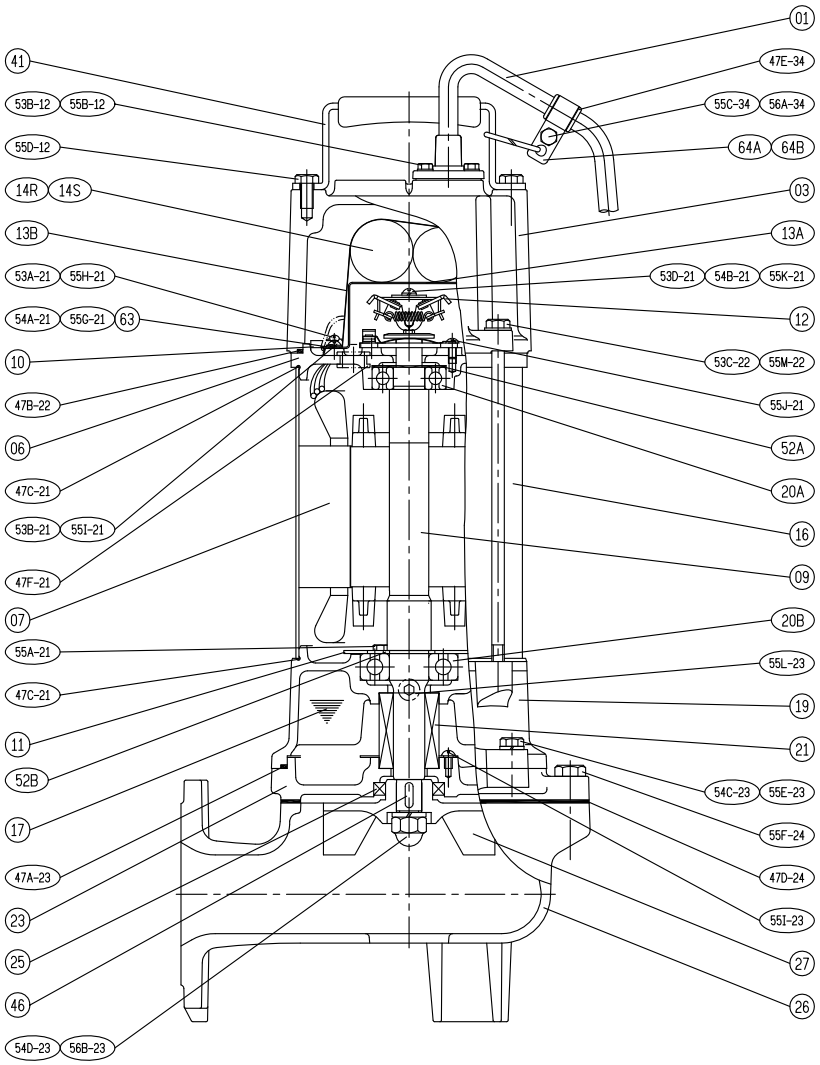
No.	Part name	Material	QTY	Remark
23	M.seal bracket	FC200	1	
25	Oil seal	NBR	1	
26	Casing	FC200	1	
27	Impeller	FC200	1	
41	Handle	SUS304	1	
46	Impeller key	SUS304	1	
47	Packing			

SECTIONAL VIEWS

No: 03FNU222010-00

MODEL: FN-32U & FN-33U

1Ø



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	SUS304	1	
17	Lubricant			
19	Bearing bracket	FC200	1	

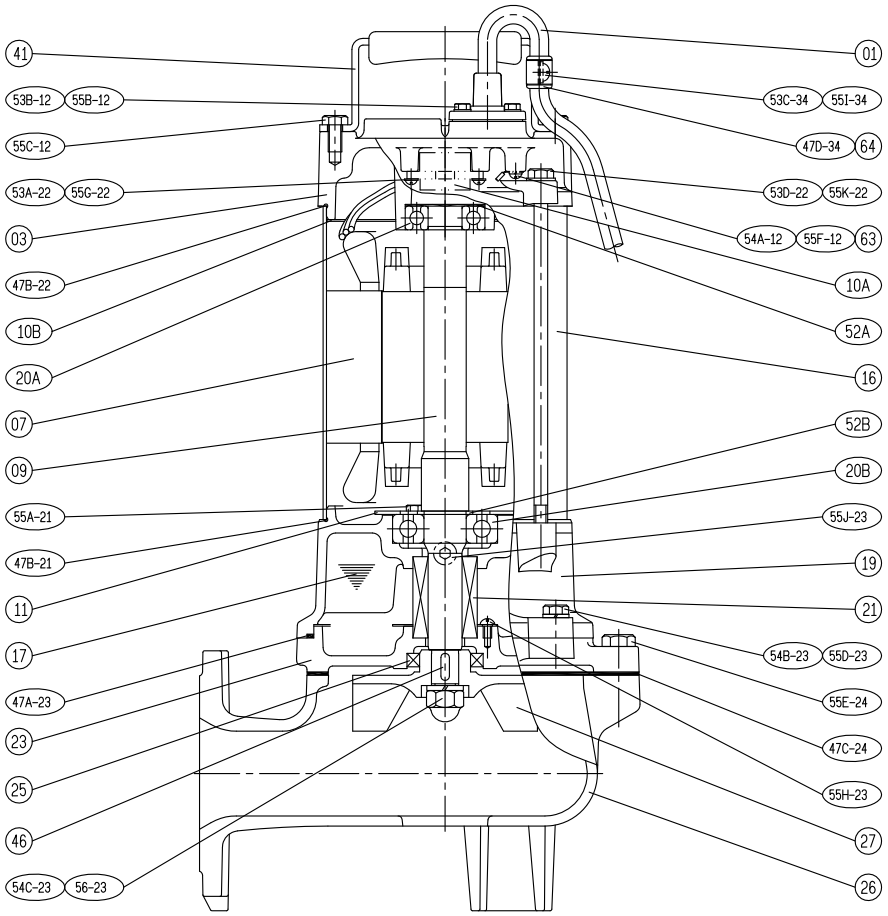
No.	Part name	Material	QTY	Remark
20A	Bearing		1	
20B	Bearing		1	
21	M.seal	CA / CE & SiC / SiC	1	
23	M.seal bracket	FC200	1	
25	Oil seal	NBR	1	
26	Casing	FC200	1	
27	Impeller	FC200	1	
41	Handle	SUS304	1	
46	Impeller key	SUS304	1	
47	Packing			

SECTIONAL VIEWS

No: 03FNU222030-00

MODEL: FN-32U & FN-33U

3Ø

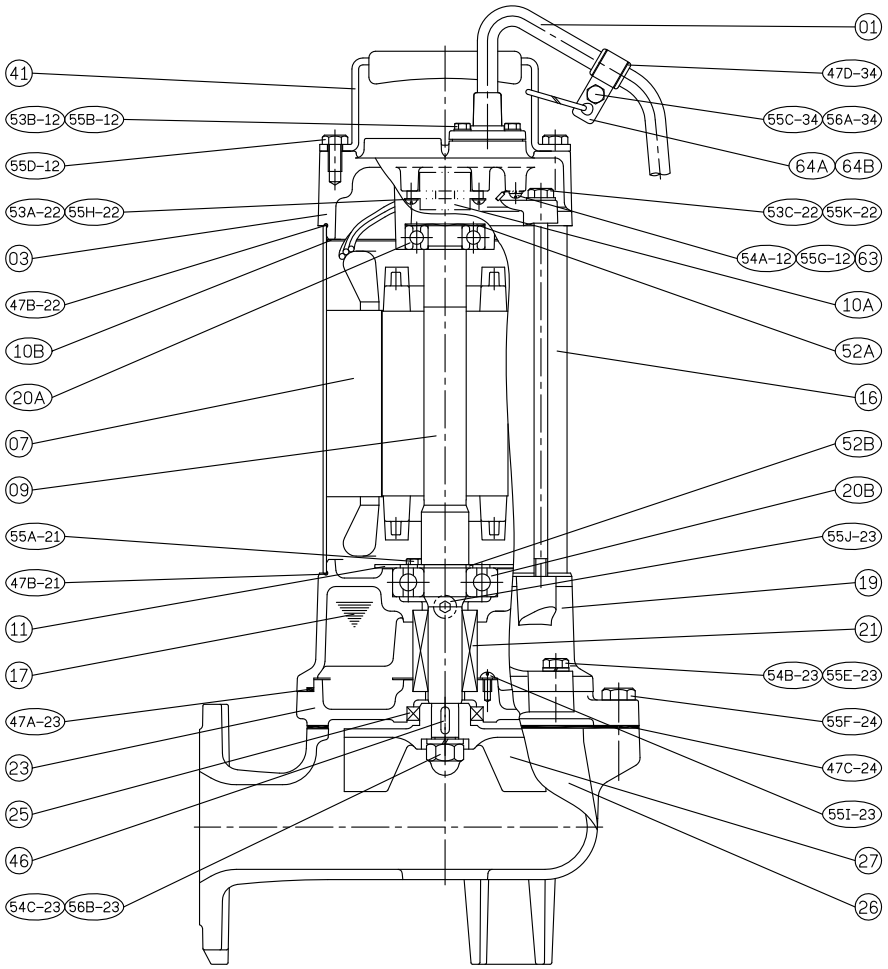


No.	Part name	Material	QTY	Remark
01	Cable		1	
03	Upper cover	FC200	1	
07	Stator		1	
09	Shaft end	SUS403	1	
10A	Auto-cut		1	
10B	Auto-cut plate		1	
11	Bearing fixer	SPCC	1	
16	Motor frame	SUS304	1	
17	Lubricant			
19	Bearing bracket	FC200	1	
20A	Bearing		1	
20B	Bearing		1	
21	M.seal	CA / CE & SiC / SiC	1	

No.	Part name	Material	QTY	Remark
23	M.seal bracket	FC200	1	
25	Oil seal	NBR	1	
26	Casing	FC200	1	
27	Impeller	FC200	1	
41	Handle	SUS304	1	
46	Impeller key	SUS304	1	
47	Packing			

SECTIONAL VIEWS No: 03FNU237030-00

MODEL: FN-35U 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	SUS304	1	
17	Lubricant			
19	Bearing bracket	FC200	1	
20A	Bearing		1	
20B	Bearing		1	
21	M.seal	CA / CE & SiC / SiC	1	

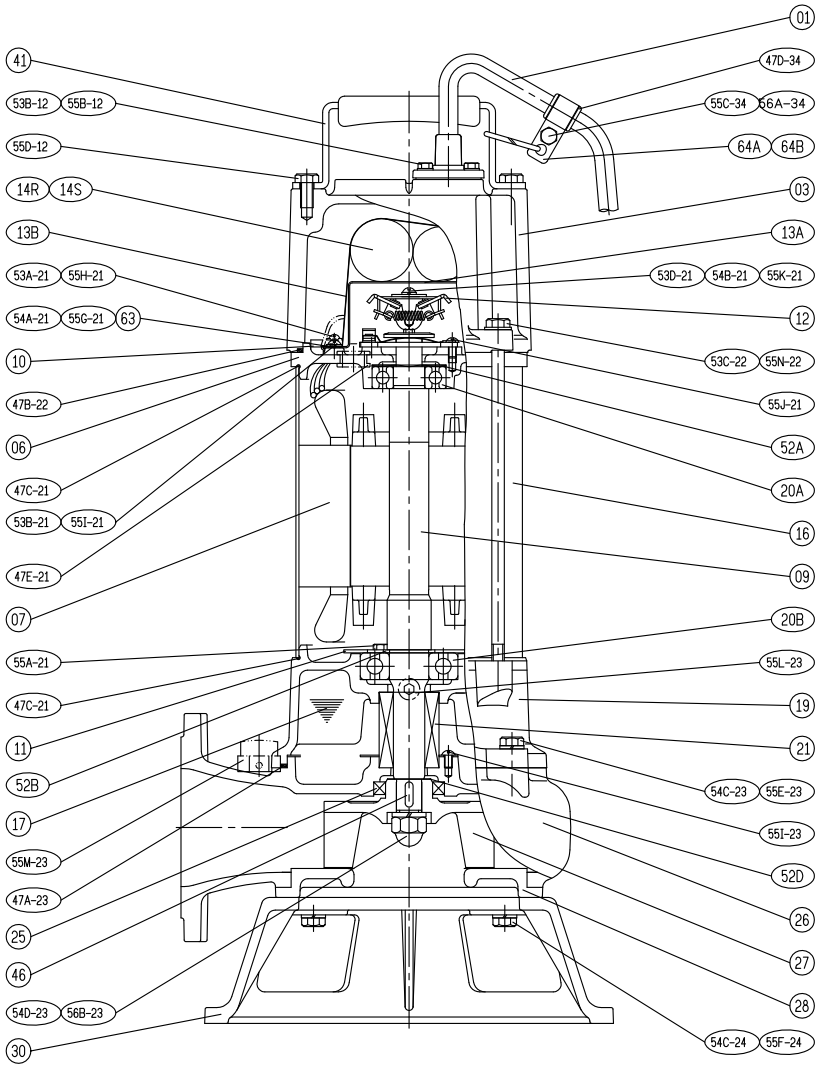
No.	Part name	Material	QTY	Remark
23	M. seal bracket	FC200	1	
25	Oil seal	NBR	1	
26	Casing	FC200	1	
27	Impeller	FC200	1	
41	Handle	SUS304	1	
46	Impeller key	SUS304	1	
47	Packing			

SECTIONAL VIEWS

No: 03FNP222010-00

MODEL: FN-32P & FN-33P

1Ø



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	SUS304	1	
17	Lubricant			
19	Bearing bracket	FC200	1	

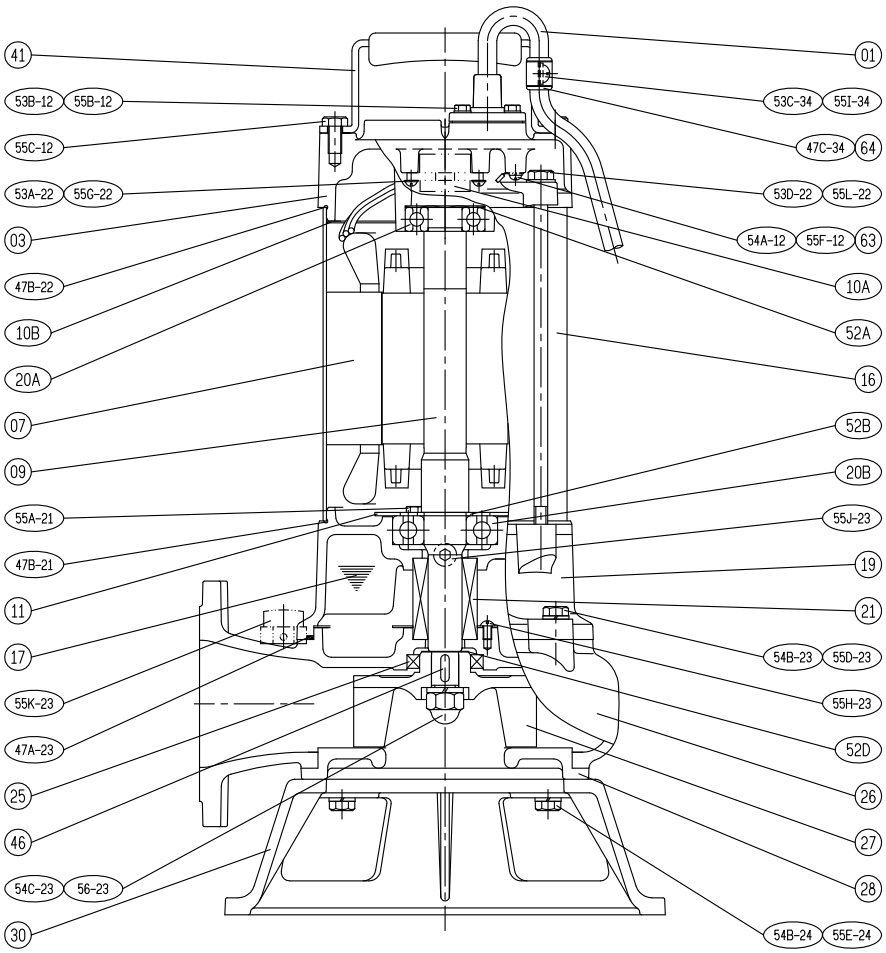
No.	Part name	Material	QTY	Remark
20A	Bearing		1	
20B	Bearing		1	
21	M.seal	CA / CE & SiC / SiC	1	
25	Oil seal	NBR	1	
26	Casing	FC200	1	
27	Impeller	FC200	1	
28	Casing cover	FC200	1	
30	Footing	FCD450	1	
41	Handle	SUS304	1	
46	Impeller key	SUS304	1	
47	Packing			

SECTIONAL VIEWS

No: 03FNP222030-00

MODEL: FN-32P & FN-33P

3Ø

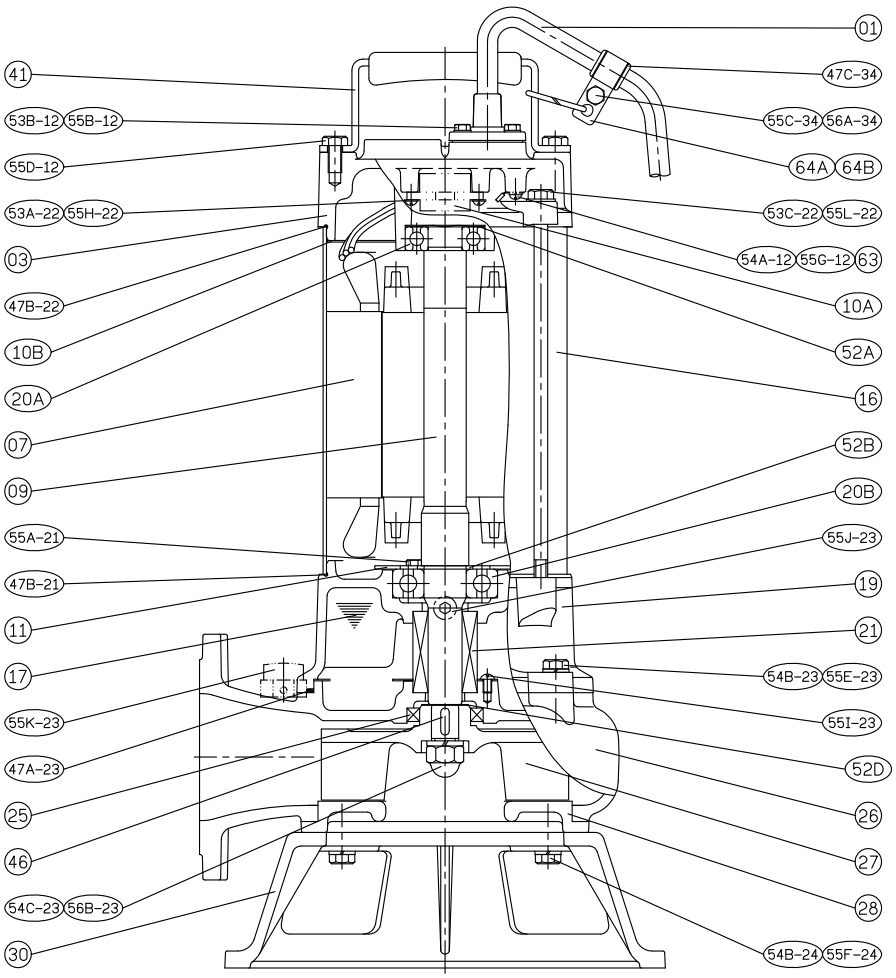


No.	Part name	Material	QTY	Remark
01	Cable		1	
03	Upper cover	FC200	1	
07	Stator		1	
09	Shaft end	SUS403	1	
10A	Auto-cut		1	
10B	Auto-cut plate		1	
11	Bearing fixer	SPCC	1	
16	Motor frame	SUS304	1	
17	Lubricant			
19	Bearing bracket	FC200	1	
20A	Bearing		1	
20B	Bearing		1	
21	M.seal	CA / CE & SiC / SiC	1	

No.	Part name	Material	QTY	Remark
25	Oil seal	NBR	1	
26	Casing	FC200	1	
27	Impeller	FC200	1	
28	Casing cover	FC200	1	
30	Footing	FCD450	1	
41	Handle	SUS304	1	
46	Impeller key	SUS304	1	
47	Packing			

SECTIONAL VIEWS No: 03FNP237030-00

MODEL: FN-35P 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	SUS304	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
25	Oil seal	NBR	1	
26	Casing	FC200	1	
27	Impeller	FC200	1	
28	Casing cover	FC200	1	
30	Footing	FCD450	1	
41	Handle	SUS304	1	
46	Impeller key	SUS304	1	
47	Packing			