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316SS STAINLESS STEEL AISI SUBMERSIBLE VORTEX SEWAGE PUMP

BT SERIES

60 HZ

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BOESCH

BT SERIES

STAINLESS STEEL AISI 316
SUBMERSIBLE VORTEX SEWAGE PUMP
SERIES 60HZ

2" (3") BT200~BT300

2" BT50

Watertight Corrugated Cable Sleeve (optional) Acid/Alkali Resistant Plastic Composite Material

Features

- Vortex impeller design
- Loss wax Stainless Steel AISI 316(L) & DUPLEX STEEL
- Large impeller clearance
- Viton gaskets, o-rings and lip seal are used throughout pump sealing
- Optional epoxy based nano-coating to extend pump life time
- Optional acid/alkali resistant cable sleeve

Applications

- Drainage for typical, chemical, pharmaceutical industries
- Wastewater with corrosive contaminant
- Wastewater treatment plant

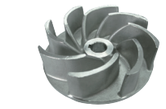
Specifications

Liquid Temperature		0~40˚C (32~104˚F)
Submersible depth		10M
Motor Part	Frequency	60Hz
	Pole	2 Pole
	Type	Dry Type
	Insulation	0.5~7.5HP : Class B 10~15HP : Class F
	Protection	IP 68
Pump Part	Protector	Auto-cut
	Bearing	Ball Type
	Mechanical seal	Double Mechanical Seal
	Impeller	Vortex Impeller

Data Chart

Type	Output		Discharge	F.L.A.			Rated		Maximum		Free Passage	Weight(W/O Cable)		Q.D.C.
	HP	kW	Inch	1ø 230V	3ø 230V	3ø 460V	Head FT	Cap. GPM	Head FT	Cap. GPM	mm	1ø-kg	3ø-kg	
2" BT50	0.5	0.37	2"	4A	2.8A	1.4A	19.7	55	36	88	35	13	12.4	SQS-50
2" BT100	1	0.75	2"	6A	4A	2A	29.5	60	46	118	35	15.4	15.7	SQS-50
2" (3") BT200	2	1.5	2"(3")	11A	7A	3.5A	36	90	65.5	155.8	45	31.2	29.7	SQM-80(D)
2" (3") BT300	3	2.2	2"(3")	11A	8A	4.5A	39	110	75.5	177	45	32.8	31.3	SQM-80(D)
3" (4") BT500	5	3.7	3"(4")	-	15A	8A	56	120	88.5	275	45	-	48	SQM-100(D)
3" (4") BT750	7.5	5.5	3"(4")	-	21A	10.5A	64	145	105	290.5	45	-	53.8	SQM-100(D)
3" (4") BT1000	10	7.5	3"(4")	-	26.7A	13.7A	82	185	125	300	34	-	71.5	SQM-100(D)
3" (4") BT1500	15	11	3"(4")	-	38.3A	19A	109	200	150	352	25	-	81.5	SQM-100(D)

» 2" BT50~BT100 : Flange Type » 2"(3") BT200~BT300 : Elbow Type » 3" (4") BT500~BT1500 : Elbow Type (D) Identifies Duplex Material is optional for SQM to choose.



Vortex Impeller
Stainless Steel AISI 316

Mechanical Seal
(EKK Eagle Burgmann)

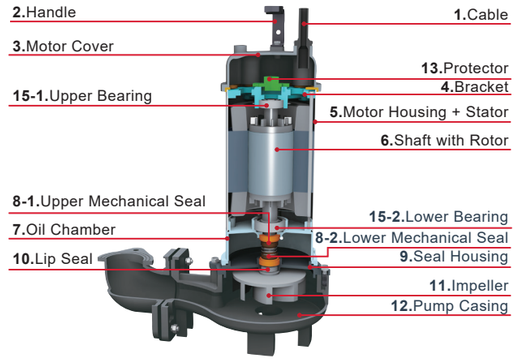
Long life Bearing

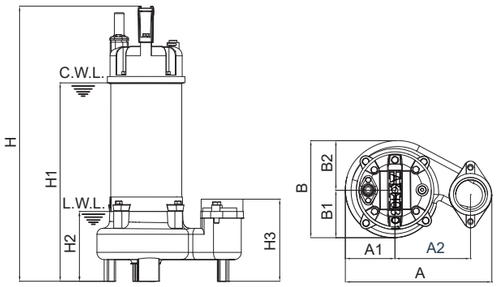
Gaskets, O-rings, Lip seal and Cable gland made in Viton material

SQS(D)(0.5HP~1HP)
AISI 316

SQM(D)(2HP~15HP)
AISI 316(DUPLEX)

Section View



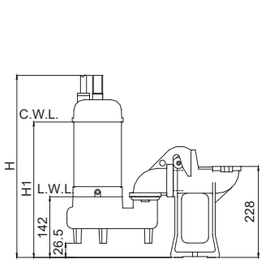


2" BT50~BT100

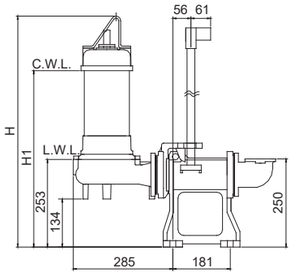
Dimensions (mm)

Type	A	A1	A2	A3	B	B1	B2	H	H1	H2	H3
2" BT50	228	75	120	N/A	150	70	80	425	297	117	138
2" BT100	228	75	120	N/A	150	70	80	455	327	117	138
2" (3") BT200	390	103	235	154	208	104	104	532	400	150	152
2" (3") BT300	390	103	235	154	208	104	104	572(552)	440(420)	150	152
3" (4") BT500	466	100	274	177	210	95	115	633	468	160	225
3" (4") BT750	466	100	274	177	210	95	115	673	508	160	225
3" (4") BT1000	488	125	270	176	251	125	127	630	515	181	261
3" (4") BT1500	488	125	270	176	251	125	127	680	565	181	261

» Note1 : S: Single Phase ; T: Three Phase
» Note2 : Automatic models are available in single-phase versions(0.5~3HP).
» Note3 : Q.D.C. (Quick Discharge Connection) is available for all models.



2" BT50~BT100 With SQS

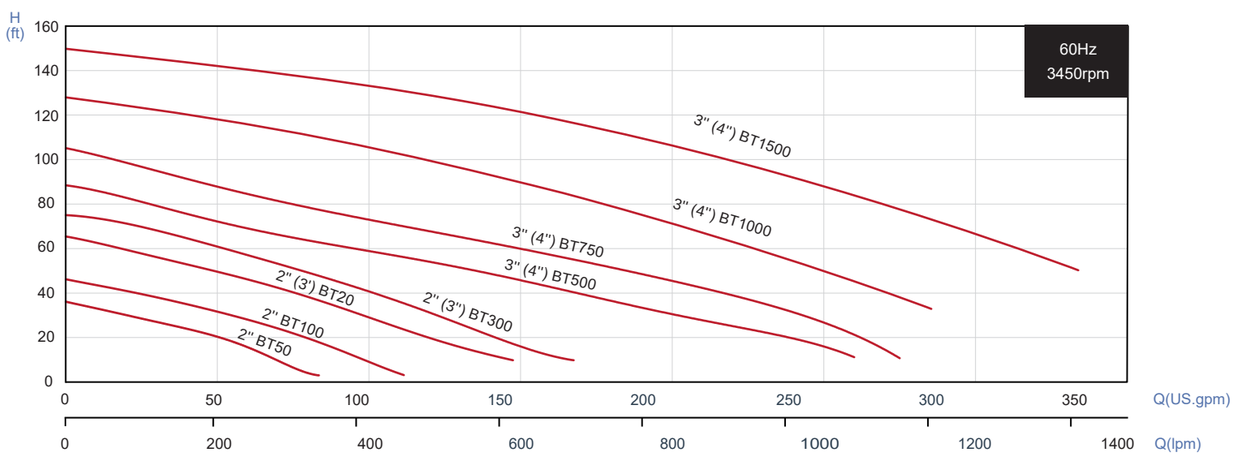


2" (3") BT200~BT300 With SQM(D)

STEEL with SQS/SQM(D)

Type	Output		Discharge		Dimensions(mm)	
	HP	KW	Inch	mm	H	H1
BT with SQS	0.5	0.37	2"	50	445	322
	1	0.75	2"	50	475	352
BT with SQM(D)	2	1.5	2"(3")	50(80)	660	534
	3	2.2	2"(3")	50(80)	S:710;T:690	S:574;T:554
	5	3.7	3"(4")	80(100)	739	574
	7.5	5.5	3"(4")	80(100)	779	614
	10	7.5	3"(4")	80(100)	736	620
	15	11	3"(4")	80(100)	786	670

Performance Curve



All technical information is subject to change without notice.

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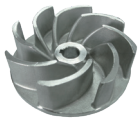
60HZ
BT SERIES

2" BT50~BT100

2" (3") BT200~BT300



Vortex Impeller
Stainless Steel AISI 316

3" (4") BT500~BT750

3" (4") BT1000~BT1500

Specifications

ITEM		DESCRIPTION
LIMITS OF USE	Liquid Temp.	0~40°C(32~104°F)
	Application	As suggested application page 1
TYPE	Frequency	60Hz
	Motor	2P (3450RPM) . Dry Motor
	Insulation	Class B
	Protection	IP 68
	Protector	Auto-Cut
	Bearing	Ball Type
	Mech. Seal	Double Mechanical Seal
	Impeller	Vortex Impeller
MATERIAL	Motor Cover	AISI 316
	Motor Housing + Stator	AISI 316
	Shaft with Rotor	AISI 316
	Mech. Seal	Upper : CA/ CE Lower : SIC / SIC
	Pump Casing	AISI 316
	Impeller	AISI 316
	Cable	H07RN-F / SJTOW / STOW

Data Chart

MODEL	OUTPUT		DISCHARGE	PHASE	1Ø						RATED		MAXIMUM		FREE PASSAGE	WEIGHT W/O CABLE	Q.D.C
	HP	kW	Inch	VOLTAGE	110V	115V	127V	208V	220V	230V	m	lpm	m	lpm	mm	1Ø-kg	
2" BT50	0.5	0.37	2"	FULL LOAD AMPERAGE	8.4A	8A	7.2A	4.4A	4.2A	4A	6	208	11	334	35	13	SQS-50
2" BT100	1	0.75	2"		12.6A	12A	10.9A	6.6A	6.3A	6A	9	227	14	446	35	15.4	
2" (3") BT200	2	1.5	2"(3")		-	-	-	12.2A	11.5A	11A	11	340	20	590	45	31.2	SQM-80
2" (3") BT300	3	2.2	2"(3")		-	-	-	12.2A	11.5A	11A	12	416	23	670	45	32.8	

MODEL	OUTPUT		DISCHARGE	PHASE	3Ø						RATED		MAXIMUM		FREE PASSAGE	WEIGHT W/O CABLE	Q.D.C
	HP	kW	Inch	VOLTAGE	208V	220V	230V	380V	460V	575V	m	lpm	m	lpm	mm	3Ø-kg	
2" BT50	0.5	0.37	2"	FULL LOAD AMPERAGE	3.1A	3A	2.8A	1.7A	1.4A	1.2A	6	208	11	334	35	12.4	SQS-50
2" BT100	1	0.75	2"		4.4A	4.2A	4A	2.4A	2A	1.6A	9	227	14	446	35	15.7	
2" (3") BT200	2	1.5	2"(3")		7.7A	7.4A	7A	4.2A	3.5A	2.5A	11	340	20	590	45	29.7	SQM-80
2" (3") BT300	3	2.2	2"(3")		8.8A	8.4A	8A	5.5A	4.5A	3.6A	12	416	23	670	45	31.3	
3" (4") BT500	5	3.7	3"(4")		16.6A	15.6A	15A	9.7A	8A	6.4A	17	454	27	1040	45	48	SQM-100
3" (4") BT750	7.5	5.5	3"(4")		23.2A	22A	21A	12.7A	10.5A	8.4A	19.5	550	32	1100	45	53.8	
3" (4") BT1000	10	75	3"(4")		27.5A	26.5A	26A	16A	14A	-	25	700	38.5	1140	34	71.5	
3" (4") BT1500	15	11	3"(4")		40A	38.3A	38.3A	23A	19A	-	33	760	46	1335	25	81.5	

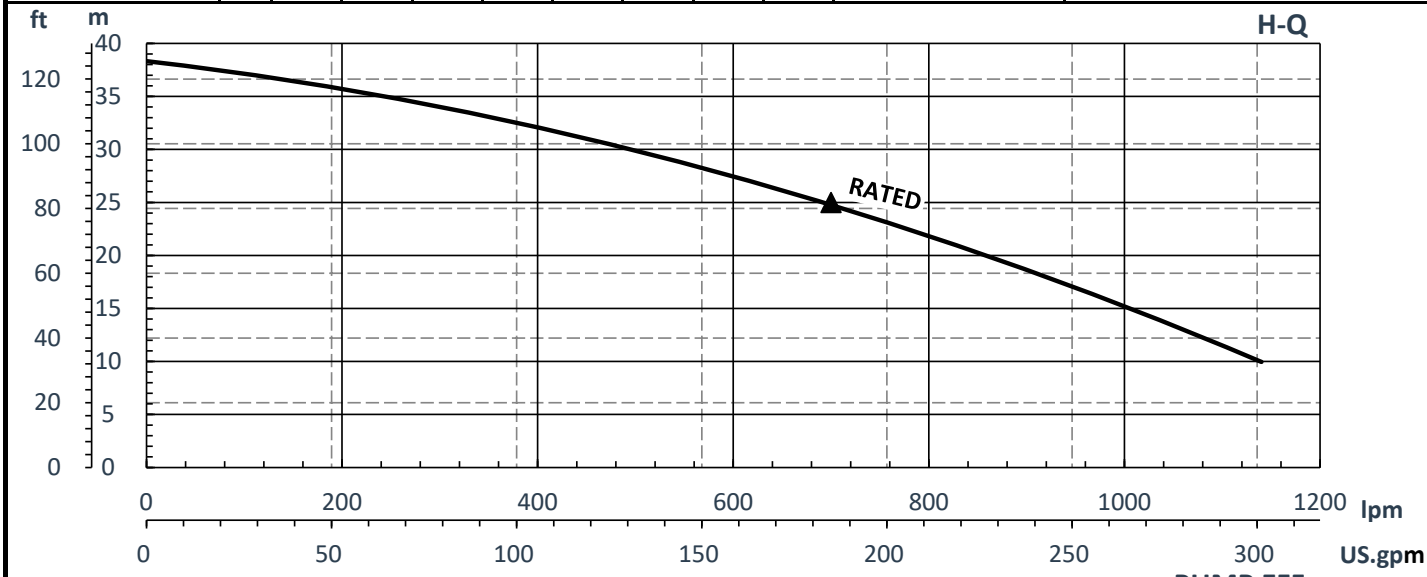
Motor / Pump Construction Material

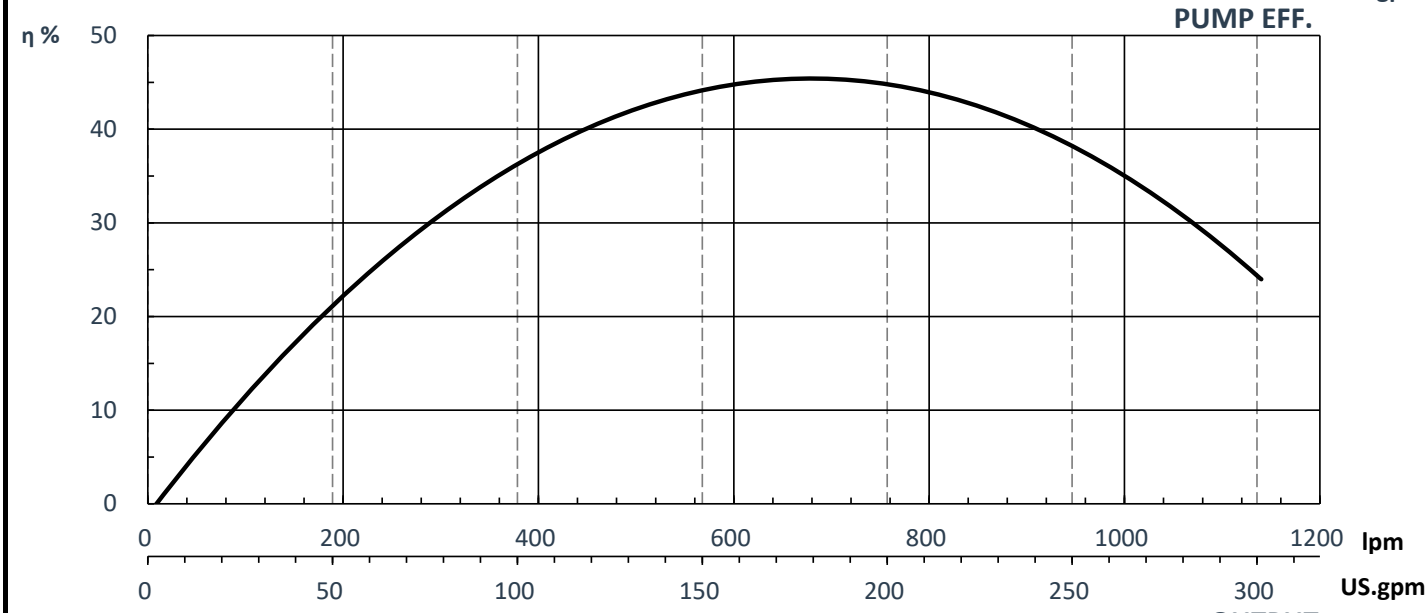
PART	MATERIAL	PART Mechanical	MATERIAL
Cable	H07RN-F/STJOW/STOW	Seal Mechanical	Upper: CA / CE
Handle	Nylon 6(0.5-1HP) AISI 316 (2-7.5HP)	Seal	Lower: SIC / SIC
Motor Cover	AISI 316	Seal Housing	AISI 316 VITON
Bracket	ASTM A48 Class 30	Lip Seal	AISI 316 AISI
Motor Housing + Stator	AISI 316	Impeller	316 NTN/TPI
Shaft with Rotor	AISI 316	Pump Casing	
Oil Chamber	ASTM A48 Class 30(0.5-1HP) AISI 316(2-7.5HP)	Upper/Lower Bearing	

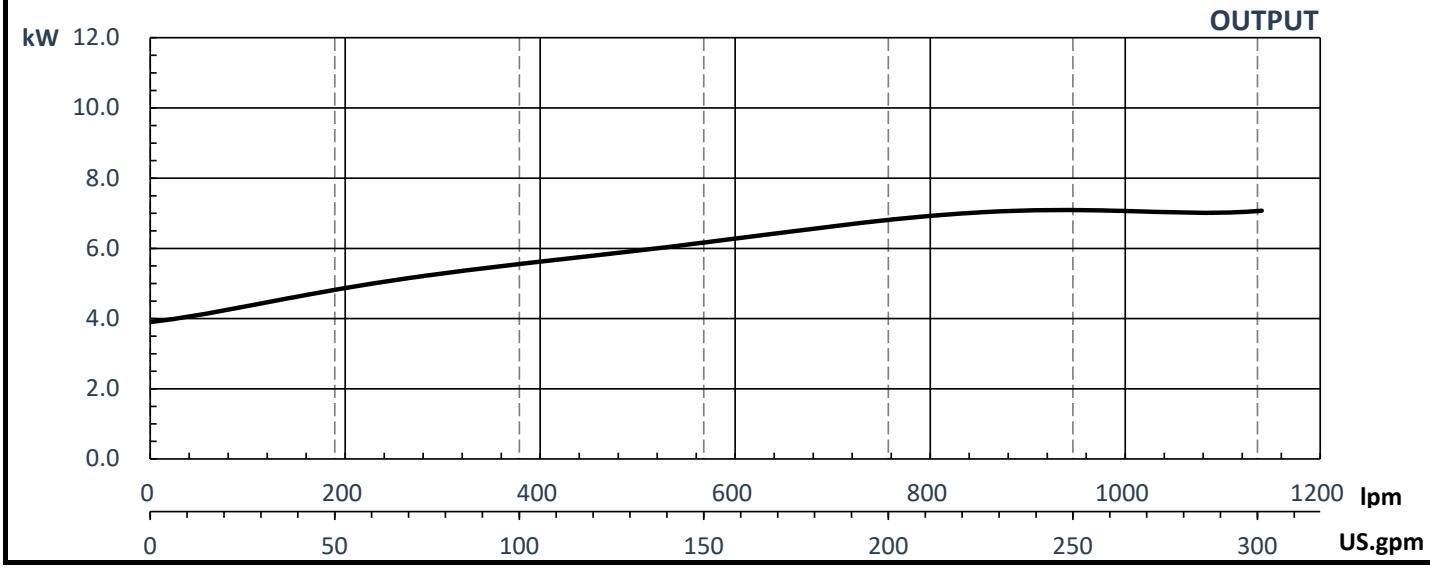
BOESCH BT1000

PUMP PERFORMANCE REPORT

MODEL	4'' BT1000										RATED			
FREQUENCY	60 HZ									HEAD	25	m	82.0	ft
DISCHARGE	4 Inch / 100 mm									CAPACITY	700	lpm	185	gpm
OUTPUT 10	HP / 7.5 kW									POLE / RPM	2P / 3450 RPM			
PHASE/VOLTAGE	3ø	208V	220V	230V	380V	400V	440V	460V	480V	START METHOD	DIRECT ON LINE			
F.L.A.	A	28.3	27.1	26.7	15.8	15.1	14	13.7	13.5	INSULATION CLASS	F CLASS			







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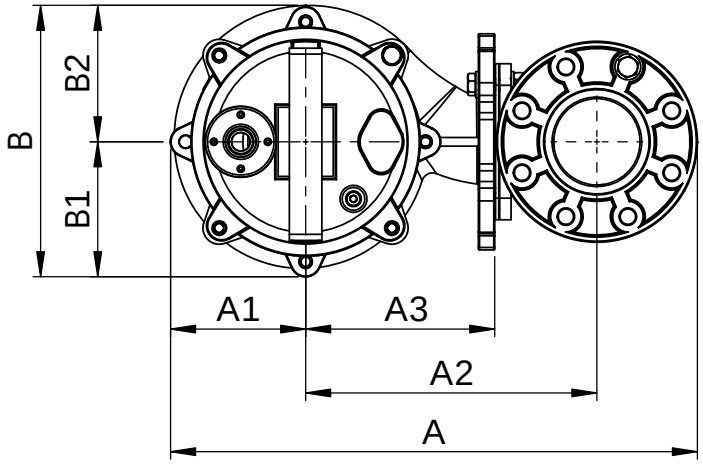
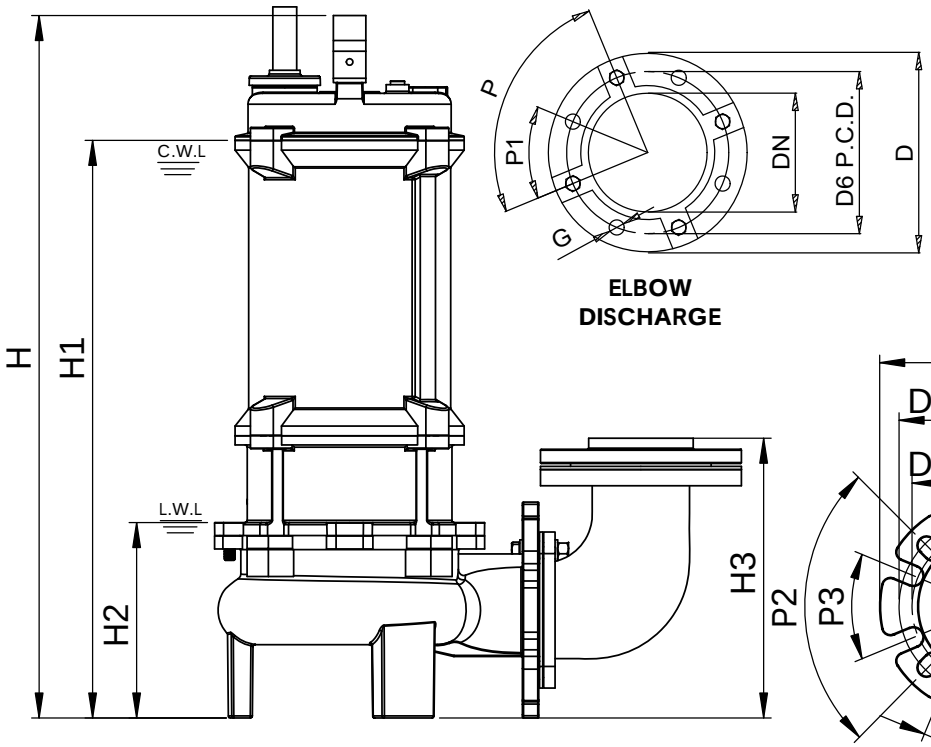
BT SERIES

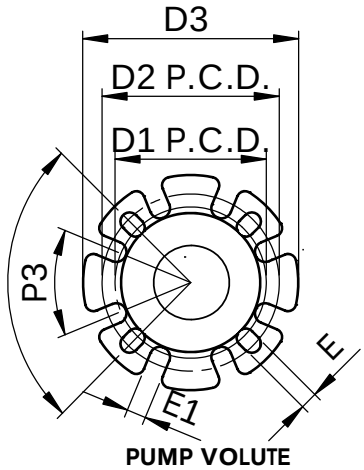
DIMENSIONAL DRAWING

MODELS : 3" (4") BT1000~BT1500 (10HP~15HP)

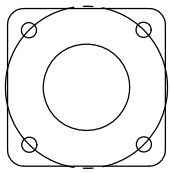




ELBOW
DISCHARGE



PUMP VOLUTE



ELBOW
CONNECTION

DIMENSION : mm
WEIGHT : kg

PIPE CONNECTION TYPE	
PT	NPT

MODEL	A	A1	A2	A3	B	B1	B2	D	D1	D2	D3	D4	D5	D6	DN	E	E1	F	G	P	P1	P2	P3	H	H1	H2	H3	WT
3" (4") BT1000	488	125	270	176	251	125	127	184	140	164	200	140	140	140	3(4)	0.63	0.71	0.55	0.55	90°	45°	90°	45°	630	515	181	261	71.5
3" (4") BT1500	488	125	270	176	251	125	127	184	140	164	200	140	140	140	3(4)	0.63	0.71	0.55	0.55	90°	45°	90°	45°	680	565	181	261	81.5

C.W.L.:Continuous Running Water Level

WT : Weight without cable

L.W.L.:Lowest Running Water Level

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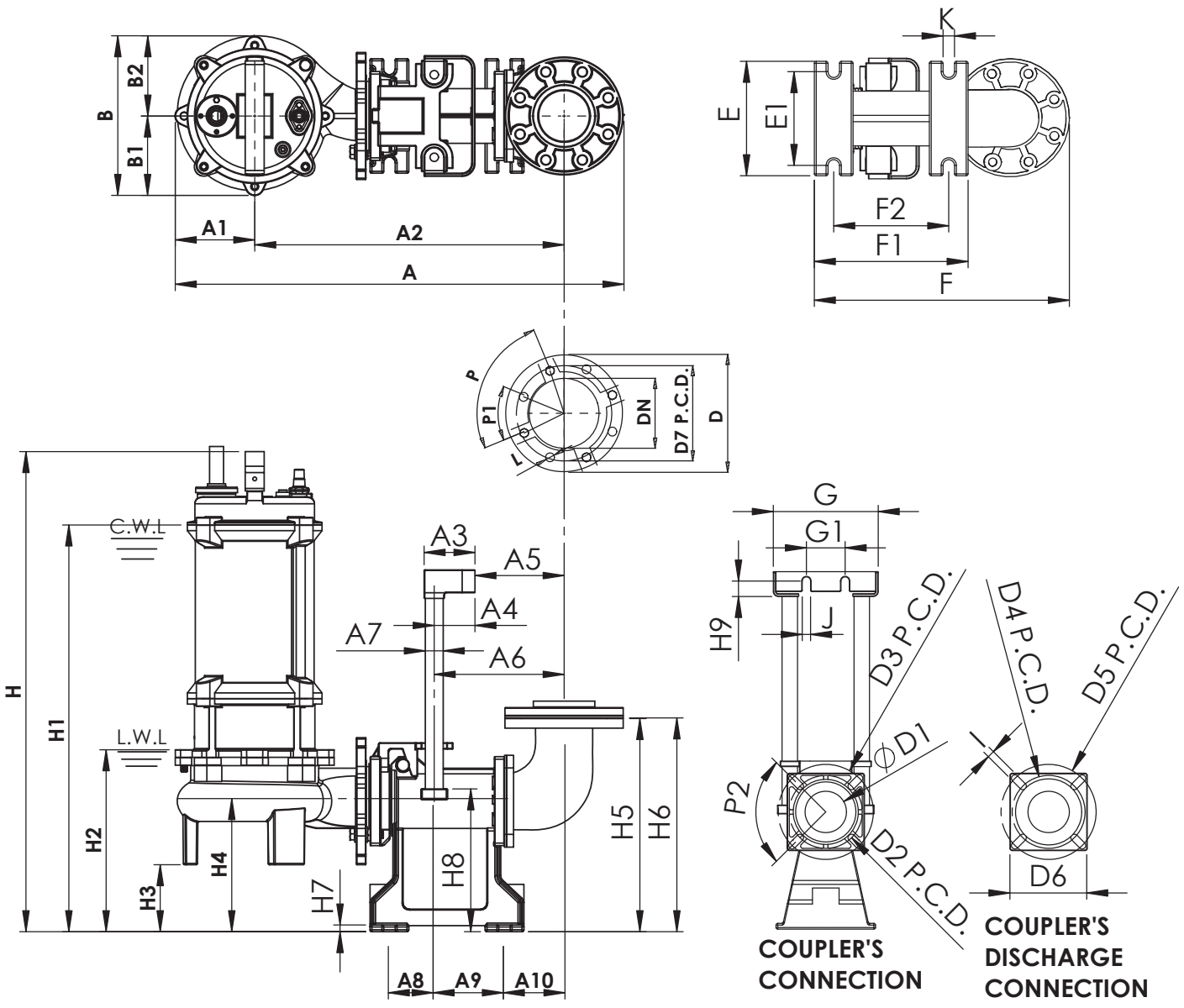
DIMENSIONAL DRAWING

MODELS : 3" (4") BT1000~ BT1500 (10HP~15HP)

QUICK DISCHARGE CONNECTION : SQM-100(D)



DIMENSION : mm
WEIGHT : kg

PIPE CONNECTION TYPE	
PT	NPT

MODEL	A	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B	B1	B2	D	D1	D2	D3	D4	D5	D6	D7	DN	P
3" (4") BT1000	706	125	488	78	64	145	205	25	72	109	96	251	125	126	184	74	135	172	135	172	140	150	3(4)	90°
3" (4") BT1500	706	125	488	78	64	145	205	25	72	109	96	251	125	126	184	74	135	172	135	172	140	150	3(4)	90°

MODEL	P1	P2	E	E1	F	F1	F2	G	G1	H	H1	H2	H3	H4	H5	H6	H7	H8	H9	I	J	K	L	WT	WT1
3" (4") BT1000	45°	90°	180	150	405	240	181	190	70	736	620	287	105	205	315	317	10	220	26	14	15	18	14	71.5	13.9
3" (4") BT1500	45°	90°	180	150	405	240	181	190	70	786	670	287	105	205	315	317	10	220	26	14	15	18	14	81.5	13.9

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

WT : Weight without cable
WT1: Q.D.C. Weight