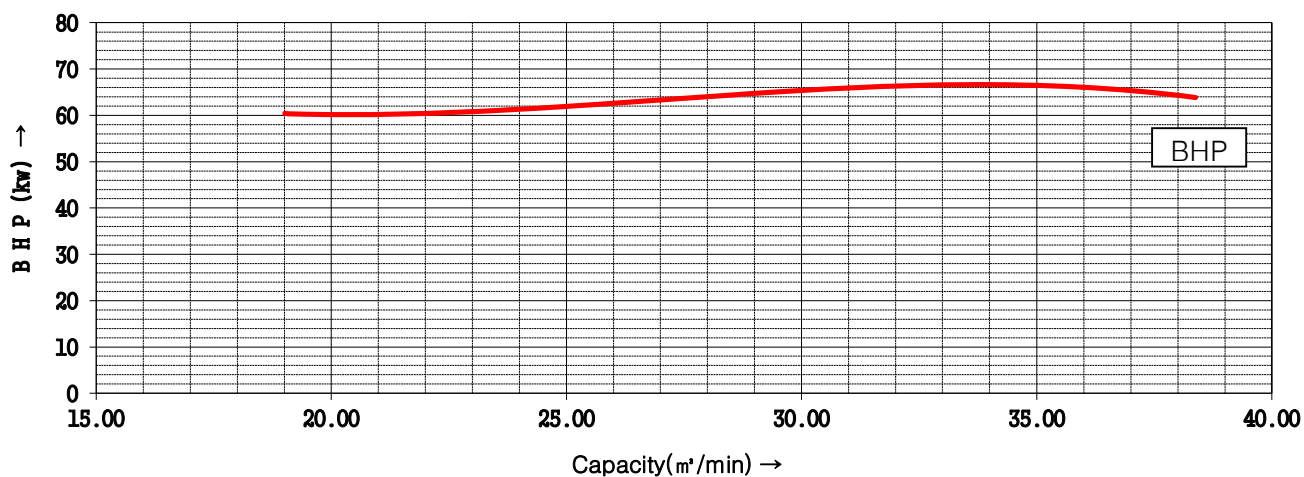
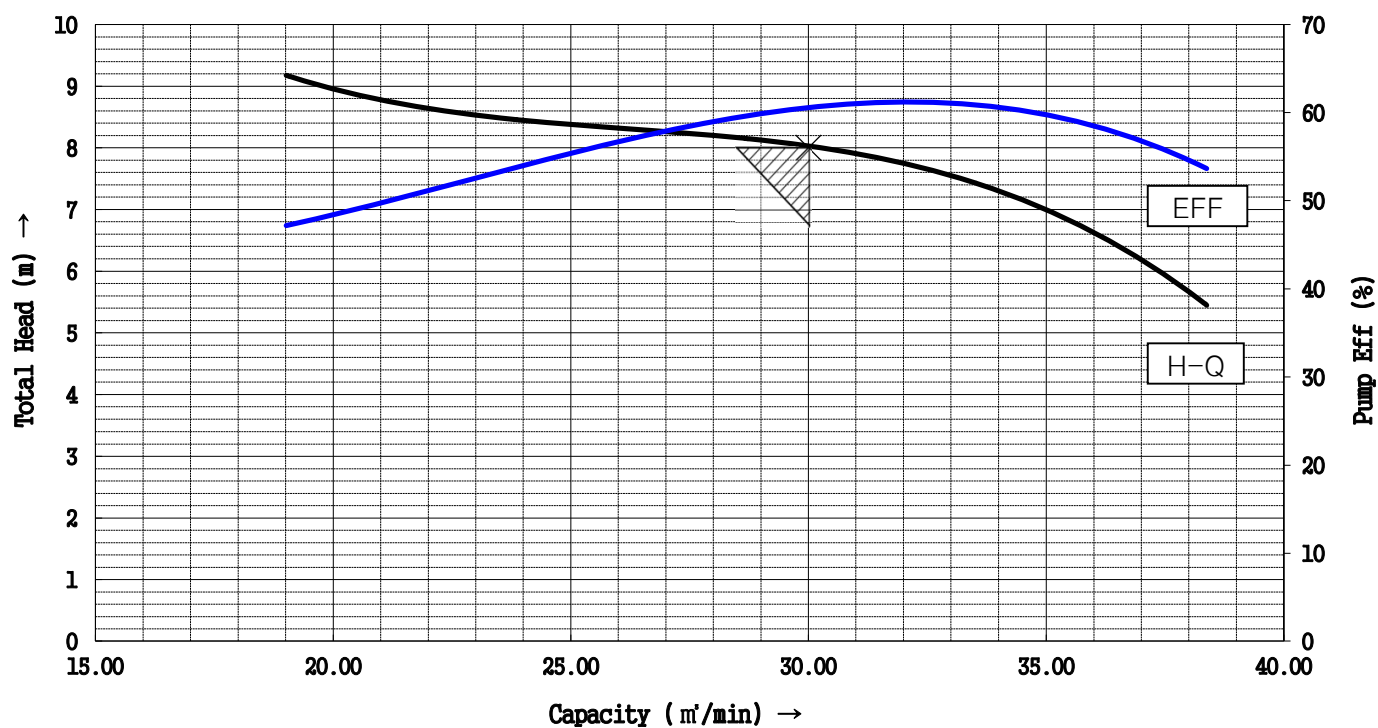


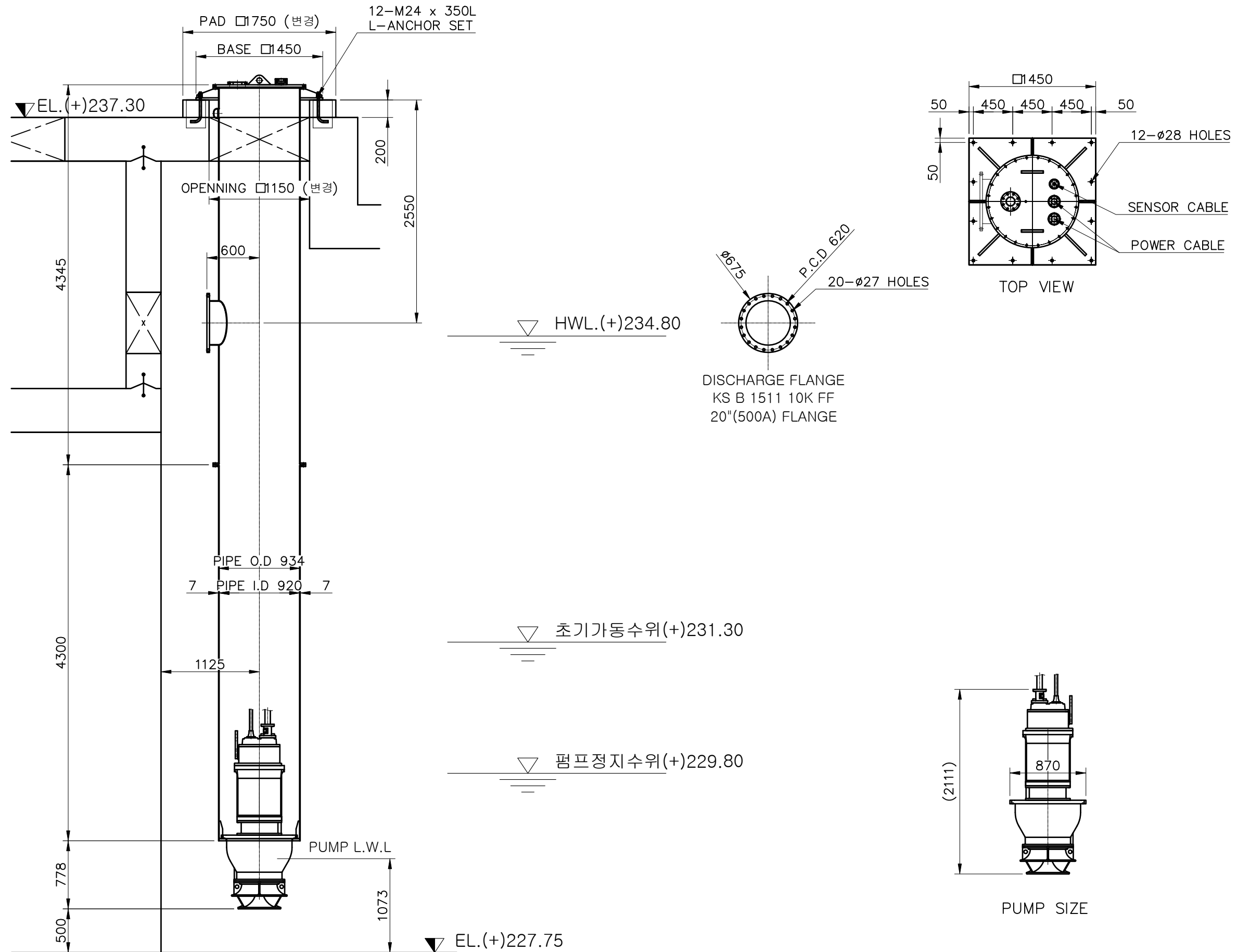
JS Eng		JS SUBMERSIBLE MOTOR PUMP		SUBMERSIBLE PUMP DATA SHEET	
Model	JS-SP-500-75M		Customer	제천시	
Item No.	M-103		Location	두학지구	
Quantity	3 set(s)		Service Name	배수펌프	
1. OPERATING CONDITION					
Liquid Pumped	Water		Capacity	30.0 m ³ /min	
Pumping Temp ¹	0 °C ~ 40 °C		Total Head	8 m	
Sp. Gr. P.T.	1				
Visc P.T.	1 Cst				
2. PERFORMANCE AND CONSTRUCTIONS					
Efficiency Expected	60 %		Speed	875 RPM	
B.H.P.	65.20 kW		Number of Stage	1 Stage(s)	
Rotation Viewed from Top	☒ cw ☐ ccw		Impeller Type	☐ Open ☒ Closed	
Discharge Size/Type/Position	Φ 500 / ☒ FF ☐ RF / ☐ Top ☒ Side				
Flow Direction	☐ Radial ☒ Mixed ☐ Axial		Shaft Sleeve	☒ Yes ☐ No	
Guide Rail(Size)	☐ Yes ☒ No		Bearing	Radial 6315ZZ/NU319	
Structure Type	☒ Open ☐ Strainer			Thrust 7320+7320	
3. PUMP DRIVER					
Drive	MOTOR		V/Phase/Hz	380 V 3 Φ 60 Hz	
Pole & Speed	8 P 900 rpm		Power	75 kW	
Starting Method	Reactor		Amperage	161.00 A	
Insulation Class	F				
4. MECHANICAL SEAL					
Maker	SEOUL TECH		Model & Size	Φ80	
Type / Material	Double / Silicon Carbide				
5. MATERIAL					
Guide Casing	GC 200	Motor Frame	GC 200	Shaft	STS 410/A276 410
Impeller	SSC 13	Bracket	GC 200	Bolt & Nut	STS 304
Suction Bowl	GC 200				
6. SPARE PARTS					
☐ Impeller	EA	☐ Bearing	set	☐ M/Seal	EA
☐ Shaft	EA	☒ Gasket	3 set	☐ Sleeve	set
☒ O-Ring	3 set	☐ Press Gauge	set	☐ Bolt,Nut	EA
7. ACCESSORIES					
☒ Cable	10 m 3 ea	☒ Air Vent	3 set	☒ Press Gauge	3 set
☒ Wire	7.5 m 3 ea	☐ Tool Set	set	☒ Monitoring Ut	3 set
☒ Column Pip	- A 3 set	☒ Oil	6000 cc	☒ Bolt,Nut	3 set
8. WEIGHT					
Pump	2200 kg	Column Pipe	2100 kg	Total	4300 kg
9. REMARK					
* WINDING TEMP. SENSOR (1EA) * BEARING TEMP. SENSOR (1EA) * LEAKAGE SEAL SENSOR (1EA) * 정하중 4.3TON / 동하중 17.8TON					

Estimated Performance Curve

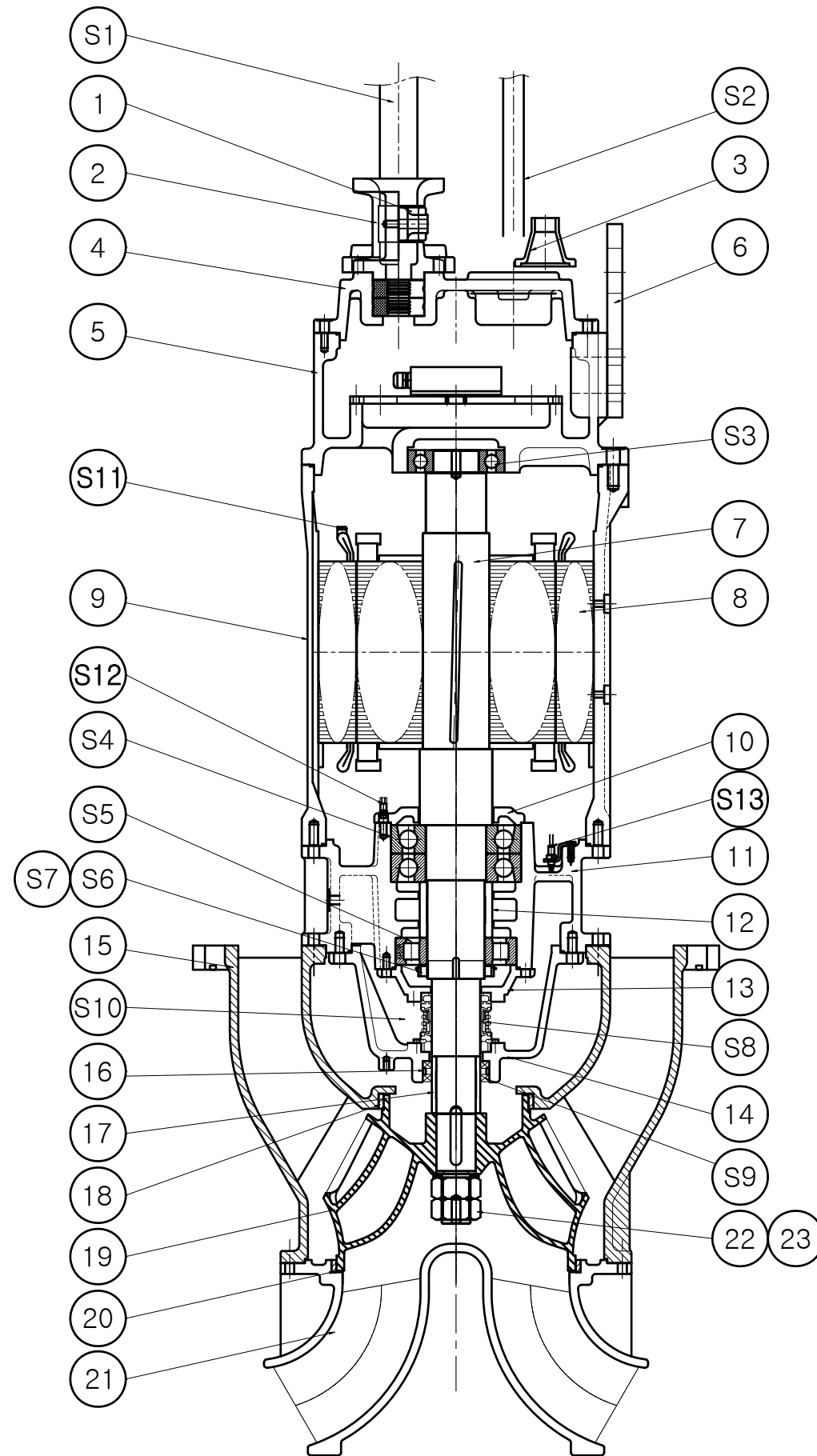
Customer	제천시					Item No.	M-103	
Model	JS-SP-500-75M					Made Date	-	
Duty point	Capacity	30.0	m ³ /min	Total Head	8 m			
	Pump Eff	60	%	B.H.P.	65.20 kW	Test No.		
				Dis.Size	500 Φ			
Motor Spec.	Power	75.0	kW	Volt	380 V	Pole	8	P
	Phase	3	Φ	Amperage	161.00 A	Hz	60	Hz
	Maker							



JS Eng	JS SUBMERSIBLE		NS CALCULATION SHEET	
	MOTOR PUMP			
ITEM NO.	M-103		MODEL	JS-SP-500-75M
CUSTOMER	제천시		LOCATION	두학지구
DESCRIPTION	SPECIFICATION			REMARKS
1. GIVEN DATA Duty point	1) Capacity	(Q) :	30	m ³ /min
	2) Total Head	(H) :	8	m
	3) Efficiency	(η) :	60	%
	4) MOTOR SPEED	(N) :	875	rpm
2. NS CALCULATION	$NS = \frac{N \times \sqrt{Q}}{H^{(3/4)}}$			
	$= \frac{875 \times \sqrt{30}}{8^{(3/4)}}$			
	$= 1008$			
1. NS = Pump specific speed 2. N = Rotative speed in revolutons Per minute 3. Q= Flow in m³/min 4. H = Total head in m				



CUSTOMER	제천시	LOCATION	두학지구	MAKER	(주)제이에스엔지니어링	MODEL	JS-SP-500-75M	NAME	OUTLINE DRAWING OF SUBMERSIBLE TYPE
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No	PART NAME	MAT'L	Q'TY	REMARKS
1	CABLE GLAND	GC 200	2	-
2	STUFFING BOX	GC 200	2	-
3	STUFFING BOX	GC 200	1	-
4	BRACKET	GC 200	1	-
5	JUNCTION BOX	GC 200	1	-
6	LIFT RING	SS 275	2	-
7	SHAFT	STS 410/A276 410	1	-
8	MOTOR ASS'Y	S - 60	1	-
9	FRAME	GC 200	1	-
10	BEARING COVER	GC 200	1	-
11	BEARING HOUSING	GC 200	1	-
12	SPACER	STS 304	1	-
13	SEAL COVER	GC 200	1	-
14	WATER CHAMBER	GC 200	1	-
15	GUIDE CASING	GC 200	1	-
16	SPACER	STS 304	1	-
17	SLEEVE	STS 304	1	-
18	WEARING	STS 304	1	-
19	IMPELLER	SSC 13	1	-
20	WEARING	STS 304	1	-
21	SUCTION BOWL	GC 200	1	-
22	IMPELLER NUT	SSC 13	2	-
23	PLATE WASHER	STS 304	1	-
S1	POWER CABLE	PNCT-R	1	-
S2	SENSOR CABLE	PNCT-S	1	-
S3	BALL BEARING	STB2	1	-
S4	BALL BEARING	STB2	2	-
S5	ROLLER BEARING	STB2	1	-
S6	BEARING WASHER	STS 304	1	-
S7	BEARING NUT	STS 304	1	-
S8	MECHANICAL SEAL	SIC/SIC	1	-
S9	OIL SEAL	N.B.R	2	-
S10	TURBIE OIL	VGA 46	-	-
S11	WIN. TEM. SENSOR	PT100Ω	1	-
S12	BER. TEM. SENSOR	PT100Ω	1	-
S13	LEAKAGE SENSOR	Electric Type	1	-